CodeArts Req

API Reference

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HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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1 Before You Start

1.1 Overview

CodeArts Req is a team collaboration service that empowers agile development teams to manage projects, requirements, and documents, iterate agilely, and create charts.

This document describes how to use application programming interfaces (APIs) to perform operations in CodeArts Req, such as creating, deleting, or querying tasks. For details about all supported operations, see **API Overview**.

Before calling CodeArts Req APIs, ensure that you are familiar with basic CodeArts Req concepts (**Concepts**). For details, see **Product Overview**.

1.2 Endpoints

An endpoint is the request address for calling an API. Endpoints vary depending on services and regions.

Table 1-1 lists the CodeArts Req endpoints. Select a desired one based on the service requirements.

Table 1-1 CodeArts Req endpoints

Region	Region ID	Endpoint
LA-Mexico City2	la-north-2	projectman-ext.la-north-2.myhuaweicloud.com
LA-Sao Paulo1	sa-brazil-1	projectman-ext.sa-brazil-1.myhuaweicloud.com
AP-Singapore	ap-southeast-3	projectman-ext.ap-southeast-3.myhuaweicloud.com

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1.3 Concepts

- Account

  An account is created upon successful registration. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.

- IAM user

  An IAM user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).

  The account name, username, and password will be required for API authentication.

- Region

  Regions are divided from the dimensions of geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal and dedicated regions.

  - A universal region provides universal cloud services for common tenants.
  - A dedicated region provides specific services for specific tenants.

- Availability zone (AZ)

  An AZ contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, computing, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.

- Project

  A project is created by a user in CodeArts Req based on a template. It also contains preset work items, code, and resources. Identity and Access Management (IAM) users in a project are added to the project as team members with corresponding roles and permissions.

- Project template

  A template-based project is created with a **preset template**. That is, Scrum or Kanban work items and processes preset in CodeArts Req. You can select a project template or create a development task.

- Enterprise project

  An enterprise project groups and manages enterprise resources in a logically isolated manner. It can contain resources in multiple regions, and allow resources to be added or removed.

  For details about how to obtain enterprise project IDs and features, see the **Enterprise Management User Guide**.

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2 API Overview

Table 2-1 API overview

Type	Description
Work items of a Scrum project	The APIs are used to create, delete, modify, and query work items of a Scrum project.
Sprints of a Scrum project	The APIs are used to create, delete, modify, and query sprints of a Scrum project.
User information	The APIs are used to obtain the current user information, update the user nickname, and obtain the current user role.
Project members	The APIs are used to add, query, delete, and remove project members.
Project information	The APIs are used to create, update, query, and delete projects.
Project indicators	The APIs are used to query the bug quantity, timely requirement completion rate, and bug density by member.
Project statistics	The APIs are used to obtain bug and requirement statistics and project overview.
Modules of a Scrum project	The APIs are used to create, query, update, and delete modules of a Scrum project.
Domains of the Scrum project	The APIs are used to create, query, update, and delete domains of a Scrum project.

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3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request and uses the IAM API for **obtaining a user token** as an example to demonstrate how to call an API. The obtained token can then be used to authenticate requests for calling other APIs.

Request URI

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be passed separately.

A request URI consists of four parts: *{URI-scheme}* **://** *{Endpoint}* **/** *{resource-path}***?** *{query-string}*

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use **HTTPS**.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from **Endpoints**. For example, the endpoint of IAM in the **AP-Singapore** region is **iam.ap-southeast-3.myhuaweicloud.com**.
resource-path	Resource path, that is, the API access path, which is obtained from the URI of a specific API. For example, the resource-path of the API used to obtain a user token is **/v3/auth/tokens**.
query-string	(Optional) Query parameter. The query parameter is prefixed with a question mark (**?**), in the format of ***Parameter name*** = ***Parameter value***. For example, **limit=10** indicates that a maximum of 10 data records will be queried.

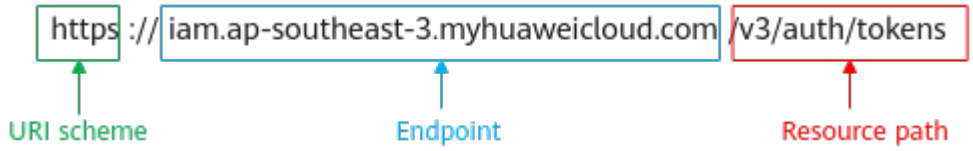
For example, to obtain the IAM token in region **AP-Singapore**, obtain the endpoint of this region (iam.ap-southeast-3.myhuaweicloud.com) and find the

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resource-path (/v3/auth/tokens) in the URI of the API for **obtaining a user token**. Then, construct the URI as follows:

```
https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
```

Figure 3-1 Example URI



NOTE

To simplify the URI display, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

Request Methods

HTTP defines the following request methods that can be used to send a request to the server.

- **GET**: requests a server to return specified resources.
- **PUT**: requests a server to update specified resources.
- **POST**: requests a server to add resources or perform special operations.
- **DELETE**: requests a server to delete specified resources, for example, to delete an object.
- **HEAD**: same as **GET** except that the server must return only the response header.
- **PATCH**: requests a server to update partial content of a specified resource. If the resource does not exist, a new resource will be created. If the resource is unavailable, the PATCH method is used to create a resource.

For example, when you call the API to obtain a user token, the request method is **POST**, and the request is as follows:

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
```

Request Header

You can also add additional header fields to a request, such as fields for specifying a URI and an HTTP method. For example, to request authentication information, add **Content-Type**, which specifies the request body type.

Common request header fields are as follows:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **X-Auth-Token**: specifies a user token only for token-based API authentication. The user token is a response to the API used to **obtain a user token**. This API is the only one that does not require authentication.

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> **NOTE**
>
> In addition to supporting token-based authentication, public cloud APIs also support authentication using AK/SK. During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.
>
> For details, see **Authentication**.

- **X-Project-ID**: specifies a subproject ID. This parameter is optional. It is used in multi-project scenarios.
- **X-Domain-ID**: identifies an account.

The API used to obtain a user token does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body

A request body is often sent in structured format. It corresponds to **Content-Type** in the request header and passes content except the request header.

Request bodies vary with APIs. Some APIs do not require the request body, such as the APIs requested using **GET** and **DELETE**.

When you call the API for **obtaining a user token**, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace ***username***, ***domainname***, ********* (login password), and ***xxxxxxxxxx*** (project ID, for example, ap-southeast-3) with the actual values. The project ID can be obtained from **Endpoints**.

> **NOTE**
>
> The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For details about this API, see **Obtaining a User Token Through Password Authentication**.

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json

{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",
                    "password": "********",
                    "domain": {
                        "name": "domainname"
                    }
                }
            }
        },
        "scope": {
```

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```
        "project": {
          "name": "xxxxxxxx"
        }
      }
    }
}
```

If all data required for the API request is available, you can send the request to call the API through **curl**, **Postman**, or coding.

3.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair.

Token-based Authentication

NOTE

The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to the request header to get permissions for calling the API.

When calling an API to **obtain a user token**, you must set **auth.scope** in the request body to **project**, as shown below.

```
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",
                    "password": "********",
                    "domain": {
                        "name": "domainname"
                    }
                }
            }
        },
        "scope": {
            "project": {
                "name": "xxxxxxxx"
            }
        }
    }
}
```

After obtaining the token, add the **X-Auth-Token** header in a request to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** can be added to a request as follows:

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```
GET https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

AK/SK-based authentication supports API requests with a body no larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see **API Request Signing Guide**.

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

3.3 Response

Status Codes

After sending a request, you will receive a response that includes a status code, response header, and response body.

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For details, see **Status Codes**.

For example, if status code **201** is returned for calling the API used to **obtain a user token**, the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-type**.

Figure 3-2 shows the response header fields for the API used to **obtain a user token**. The **x-subject-token** header field is the desired user token. This token can then be used to authenticate requests for calling other APIs.

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Figure 3-2 Header fields of the response to the request for obtaining a user token



Response Body

The response body is often returned in structured format as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following is part of the response body for the API used to **obtain a user token**.

```
{
    "token": {
        "expires_at": "2019-02-13T06:52:13.855000Z",
        "methods": [
            "password"
        ],
        "catalog": [
            {
                "endpoints": [
                    {

                        "region_id": "ap-southeast-3",
.....
```

If an error occurs during API calling, an error code and the corresponding error message will be displayed. The following shows an error response body:

```
{
    "error_msg": "The format of message is error",
    "error_code": "AS.0001"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

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4 API

4.1 Project members

4.1.1 This API is used to add a project member.

Function

This API is used to add project members (cross–tenant members can also be added).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v4/projects/{project_id}/member

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Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-3 Request body parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition** Tenant ID. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
domain_name	No	String	**Definition**: Tenant name. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
role_id	No	Integer	**Definition**: Role of a member, that is, the role ID of a user in a project. **Constraints**: N/A **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager **10**: product manager **11**: system engineer **Default value**: N/A
user_id	Yes	String	**Definition** 32-character UUID of a user. Obtain the value using the API for obtaining the current user information. The value of **user_id** in the response body is the 32-character UUID of the user. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-4 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-5 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/member

{
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "role_id" : 5,
  "user_id" : "665b542eb4c14b53a15ead449f28b0ba"
}
```

Example Responses

Status code: 204

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```
{
  "status" : 204,
  "message" : "No Content"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class AddMemberV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        AddMemberV4Request request = new AddMemberV4Request();
        request.withProjectId("{project_id}");
        AddMemberRequestV4 body = new AddMemberRequestV4();
        body.withUserId("665b542eb4c14b53a15ead449f28b0ba");
        body.withRoleId(5);
        body.withDomainId("4e919d73499648e3b0292cd3cbef806a");
        request.withBody(body);
        try {
            AddMemberV4Response response = client.addMemberV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = AddMemberV4Request()
        request.project_id = "{project_id}"
        request.body = AddMemberRequestV4(
            user_id="665b542eb4c14b53a15ead449f28b0ba",
            role_id=5,
            domain_id="4e919d73499648e3b0292cd3cbef806a"
        )
        response = client.add_member_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
```

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```
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.AddMemberV4Request{}
    request.ProjectId = "{project_id}"
    roleIdAddMemberRequestV4:= int32(5)
    request.Body = &model.AddMemberRequestV4{
        UserId: "665b542eb4c14b53a15ead449f28b0ba",
        RoleId: &roleIdAddMemberRequestV4,
        DomainId: "4e919d73499648e3b0292cd3cbef806a",
    }
    response, err := client.AddMemberV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.2 Obtaining the Member List of a Specified Project

Function

This API is used to obtain project members.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects/{project_id}/members

Table 4-6 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-7 Query Parameters

Parameter	Mandatory	Type	Description
limit	Yes	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10

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Parameter	Mandatory	Type	Description
offset	Yes	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** N/A **Range** 0–10000 **Default Value** 0

Request Parameters

None

Response Parameters

Status code: 200

Table 4-8 Response body parameters

Parameter	Type	Description
members	Array of **members** objects	**Definition**: Project members.
total	Integer	**Definition**: Total number. **Options**: N/A

Table 4-9 members

Parameter	Type	Description
domain_id	String	**Definition** Tenant ID. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition**: Tenant name. **Options**: N/A
user_id	String	**Definition** User ID. Unique ID of a user in the system. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A
user_num_id	Integer	**Definition**: Creator numId. User ID of the int type, which is required by some deletion APIs. **Options**: N/A
role_id	Integer	**Definition**: Member role ID, which is the key in the enumerated value. **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager
nick_name	String	**Definition**: User nickname. **Options**: N/A

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Parameter	Type	Description
role_name	String	**Definition**: Role of a user. The value comes from the enumerated value range. **Options**: Project creator, project manager, developer, test manager, tester, participant, viewer, and O&M manager.
user_type	String	**Definition**: User type. **Value range**: **User**: IAM user **Federation**: federated account
forbidden	Integer	**Definition**: Whether the account is disabled. **Options**: **1** (disabled) and **0** (enabled)

Status code: 400

Table 4-10 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-11 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

Obtaining the project member list

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/members?limit=2&offset=0

GET https://{endpoint}/v4/projects/ac069b11a3524163ad6348953e2fe93e/members?limit=2&offset=0
```

Example Responses

Status code: 200

```
{
  "members" : [ {
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "demo_user_name",
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_name" : "demo_user_name",
    "user_num_id" : 4097,
    "role_id" : 7,
    "nick_name" : "name",
    "role_name" : "Project creator",
    "user_type" : "User",
    "forbidden" : 0
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	OK

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Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.3 Adding Project Members in Batches

Function

This API is used to batch add project members. Only members under the same tenant as the project creator can be added. Incorrect user IDs will be skipped. Users outside the permission scope will be assigned the default role **7**.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v4/projects/{project_id}/members

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Table 4-12 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-13 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of **BatchAddMemberRequestV4** objects	**Definition**: Added user information. **Constraints**: N/A

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Table 4-14 BatchAddMemberRequestV4

Parameter	Mandatory	Type	Description
role_id	No	Integer	**Definition**: Role ID of a member in a project. **Constraints**: N/A **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager **Default value**: N/A
user_id	Yes	String	**Definition** 32-character UUID of a user. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-15 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-16 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members

{
  "users" : [ {
    "role_id" : 5,
    "user_id" : "665b542eb4c14b53a15ead449f28b0ba"
  } ]
}
```

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Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchAddMembersV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchAddMembersV4Request request = new BatchAddMembersV4Request();
        request.withProjectId("{project_id}");
        BatchAddMembersV4RequestBody body = new BatchAddMembersV4RequestBody();
        List<BatchAddMemberRequestV4> listbodyUsers = new ArrayList<>();
        listbodyUsers.add(
            new BatchAddMemberRequestV4()
                .withRoleId(5)
                .withUserId("665b542eb4c14b53a15ead449f28b0ba")
        );
        body.withUsers(listbodyUsers);
        request.withBody(body);
        try {
            BatchAddMembersV4Response response = client.batchAddMembersV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
```

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```
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchAddMembersV4Request()
        request.project_id = "{project_id}"
        listUsersbody = [
            BatchAddMemberRequestV4(
                role_id=5,
                user_id="665b542eb4c14b53a15ead449f28b0ba"
            )
        ]
        request.body = BatchAddMembersV4RequestBody(
            users=listUsersbody
        )
        response = client.batch_add_members_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
```

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```
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchAddMembersV4Request{}
    request.ProjectId = "{project_id}"
    roleIdUsers:= int32(5)
    var listUsersbody = []model.BatchAddMemberRequestV4{
        {
            RoleId: &roleIdUsers,
            UserId: "665b542eb4c14b53a15ead449f28b0ba",
        },
    }
    request.Body = &model.BatchAddMembersV4RequestBody{
        Users: listUsersbody,
    }
    response, err := client.BatchAddMembersV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.1.4 Deleting Project Members in Batches

Function

This API is used to batch delete project members.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v4/projects/{project_id}/members

Table 4-17 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-18 Request body parameters

Parameter	Mandatory	Type	Description
user_ids	Yes	Array of strings	**Definition** 32-character UUID of a user. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-19 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-20 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

Deleting project members in batches

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members

{
  "user_ids" : [ "uQUErCFv7vWiq01uWTjgMGxtKiBLOLXO", "dbaz0V7U7qOW1wMXEyRb9PNZD6cvMzoM" ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

Deleting project members in batches

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
```

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```
import java.util.ArrayList;

public class BatchDeleteMembersV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteMembersV4Request request = new BatchDeleteMembersV4Request();
        request.withProjectId("{project_id}");
        BatchDeleteMembersV4RequestBody body = new BatchDeleteMembersV4RequestBody();
        List<String> listbodyUserIds = new ArrayList<>();
        listbodyUserIds.add("uQUErCFv7vWiq01uWTjgMGxtKiBLOLXO");
        listbodyUserIds.add("dbaz0V7U7qOW1wMXEyRb9PNZD6cvMzoM");
        body.withUserIds(listbodyUserIds);
        request.withBody(body);
        try {
            BatchDeleteMembersV4Response response = client.batchDeleteMembersV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Deleting project members in batches

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)
```

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```
    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeleteMembersV4Request()
        request.project_id = "{project_id}"
        listUserIdsbody = [
            "uQUErCFv7vWiq01uWTjgMGxtKiBLOLXO",
            "dbaz0V7U7qOW1wMXEyRb9PNZD6cvMzoM"
        ]
        request.body = BatchDeleteMembersV4RequestBody(
            user_ids=listUserIdsbody
        )
        response = client.batch_delete_members_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Deleting project members in batches

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.BatchDeleteMembersV4Request{}
    request.ProjectId = "{project_id}"
    var listUserIdsbody = []string{
        "uQUErCFv7vWiq01uWTjgMGxtKiBLOLXO",
        "dbaz0V7U7qOW1wMXEyRb9PNZD6cvMzoM",
    }
    request.Body = &model.BatchDeleteMembersV4RequestBody{
        UserIds: listUserIdsbody,
    }
    response, err := client.BatchDeleteMembersV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.5 AGC calls the current user to apply for joining in a project.

Function

This API is used to call AGC. When the current user applies for a project, their ID is written in the header.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v4/projects/{project_id}/members/agc-join

Table 4-21 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-22 Request header parameters

Parameter	Mandatory	Type	Description
Domain-Id	Yes	String	**Definition** Tenant ID. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
User-Id	Yes	String	**Definition** User ID. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-23 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-24 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members/agc-join
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

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```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class AddApplyJoinProjectForAgcSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        AddApplyJoinProjectForAgcRequest request = new AddApplyJoinProjectForAgcRequest();
        request.withProjectId("{project_id}");
        try {
            AddApplyJoinProjectForAgcResponse response = client.addApplyJoinProjectForAgc(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
```

```
        .build()

    try:
        request = AddApplyJoinProjectForAgcRequest()
        request.project_id = "{project_id}"
        response = client.add_apply_join_project_for_agc(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.AddApplyJoinProjectForAgcRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.AddApplyJoinProjectForAgc(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.6 Update the role of a member in the project.

Function

Update the role of a member in the project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v4/projects/{project_id}/members/role

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Table 4-25 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-26 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-27 Request body parameters

Parameter	Mandatory	Type	Description
role_id	Yes	Integer	**Definition**: Member role. The options are as follows: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager **Constraints**: N/A **Value range**: **–1**, **3**, **4**, **5**, **6**, **7**, **8**, and **9** **Default value**: N/A
user_ids	Yes	Array of strings	**Definition** User ID. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-28 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-29 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/members/role

{
  "role_id" : 7,
  "user_ids" : [ "08777d423500d4b01fe5c008d04336ab" ]
}
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateMembesRoleV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateMembesRoleV4Request request = new UpdateMembesRoleV4Request();
        request.withProjectId("{project_id}");
        UpdateMembersRoleV4RequestBody body = new UpdateMembersRoleV4RequestBody();
        List<String> listbodyUserIds = new ArrayList<>();
        listbodyUserIds.add("08777d423500d4b01fe5c008d04336ab");
        body.withUserIds(listbodyUserIds);
        body.withRoleId(7);
        request.withBody(body);
        try {
            UpdateMembesRoleV4Response response = client.updateMembesRoleV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

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```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateMembesRoleV4Request()
        request.project_id = "{project_id}"
        listUserIdsbody = [
            "08777d423500d4b01fe5c008d04336ab"
        ]
        request.body = UpdateMembersRoleV4RequestBody(
            user_ids=listUserIdsbody,
            role_id=7
        )
        response = client.update_membes_role_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateMembesRoleV4Request{}
    request.ProjectId = "{project_id}"
    var listUserIdsbody = []string{
        "08777d423500d4b01fe5c008d04336ab",
    }
    request.Body = &model.UpdateMembersRoleV4RequestBody{
        UserIds: listUserIdsbody,
        RoleId: int32(7),
    }
    response, err := client.UpdateMembesRoleV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.7 Quitting a Project

Function

If a project member proactively quits the project, the project creator cannot quit the project.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v4/projects/{project_id}/quit

Table 4-30 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-31 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-32 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/quit

DELETE {{url}}/v4/projects/ac069b11a3524163ad6348953e2fe93e/quit
Note: If there is no body and no return value, use the user token to call the API to remove the current user member.
```

Example Responses

None

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Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2 Project Information

4.2.1 Querying a Work Template (V2)

Function

This API is used to query a work template (V2).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/project-template/template

Table 4-33 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	**Definition**: Fuzzy search by name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-34 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-35 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

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Table 4-36 result

Parameter	Type	Description
templates	Array of **templates** objects	**Definition**: Template. **Value range**: N/A

Table 4-37 templates

Parameter	Type	Description
name	String	**Definition**: Template name. **Value range**: N/A
description	String	**Definition**: Template description. **Value range**: N/A
creator	**creator** object	**Definition**: Template owner. **Value range**: N/A
source_project	**source_project** object	**Definition**: Source project of a template. **Value range**: N/A
count	Integer	**Definition**: Number of templates. **Value range**: N/A
project_list	Array of **project_list** objects	**Definition**: Project list. **Value range**: N/A

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Parameter	Type	Description
children	Array of **children** objects	**Definition**: Sub-item. **Value range**: N/A

Table 4-38 creator

Parameter	Type	Description
nick_name	String	**Definition**: Owner name. **Value range**: N/A

Table 4-39 source_project

Parameter	Type	Description
project_name	String	**Definition**: Name of the source project of a template. **Value range**: N/A

Table 4-40 project_list

Parameter	Type	Description
name	String	**Definition**: Project name. **Value range**: N/A
identifier	String	**Definition**: Project UUID. **Value range**: N/A

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Parameter	Type	Description
description	String	**Definition**: Template description. **Value range**: N/A
total	Integer	**Definition**: Priority. **Value range**: N/A
close	Integer	**Definition**: Whether the project is closed. **Value range**: **0**: closed **1**: open
role	Integer	**Definition**: Project member role. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**
mem_count	Integer	**Definition**: Number of project members. **Value range**: N/A

Table 4-41 children

Parameter	Type	Description
id	Integer	**Definition**: Sub-project ID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Name of a sub-project. **Value range**: N/A
description	String	**Definition**: Sub-project description. **Value range**: N/A
authorId	Integer	**Definition**: ID of the sub-project owner. **Value range**: N/A
count	Integer	**Definition**: Number of sub-projects. **Value range**: N/A

Example Requests

```
{endpoint}/v2/project-template/template
```

Example Responses

Status code: 200

```
{
  "result" : {
    "templates" : [ {
      "name" : "Scrum",
      "description" : "Default work item template",
      "creator" : {
        "nick_name" : "System"
      },
      "source_project" : {
        "project_name" : ""
      },
      "count" : 1311,
      "project_list" : [ {
        "name" : "Scrum01192024",
        "identifier" : "9cf57d978ce74cb7aa4b444e1ca379fd",
        "description" : "",
        "total" : 0,
        "close" : 0,
        "role" : 0,
        "type" : "scrum",
        "mem_count" : 0
      } ],
      "children" : [ {
        "id" : 384006,
        "name" : "12345",
```

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```
      "description" : "",
      "authorId" : 4091,
      "count" : 0
    } ]
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying a work item settings template.

Error Codes

See **Error Codes**.

4.2.2 Updating the Start or End Status of the Current Sprint

Function

This API is used to update the start or end status of the current sprint.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/version/state/update

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Request Parameters

Table 4-42 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-43 Request body parameters

Parameter	Mandatory	Type	Description
-	No	String	Request body parameters for starting or ending a sprint.
name	No	String	**Definition**: Name of the current sprint. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
id	No	Integer	**Definition**: Unique ID of the current sprint. The value is obtained by calling the **Querying the Sprint** API. The ID in the version field in the response body is the ID of the current sprint. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
status	No	String	**Definition**: Status of the current project. **Constraints**: N/A **Value range**: 0|1|2 **0**: sets the sprint to the unstarted status. **1**: starts the current sprint. **2**: ends the current sprint. **Default value**: N/A

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Parameter	Mandatory	Type	Description
due_date	No	String	**Definition**: End date of the current sprint (in timestamp format, for example, **1839340800000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
start_date	No	String	**Definition**: Start date of the current project (in timestamp format, for example, **1839340800000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-44 Response body parameters

Parameter	Type	Description
result	String	**Definition**: Returned result of a sprint status. **Value range**: N/A
status	String	**Definition**: Status of the current sprint. **Value range**: **success** (success) and **error** (failure)

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Example Requests

```
POST http://{endpoint}/v2/version/state/update

{
  "name" : "333333333",
  "id" : 26658650,
  "project_id" : "ac73924a87d0455ca9b16b0ed15fe367",
  "status" : "0",
  "due_date" : null,
  "start_date" : null
}
```

Example Responses

Status code: 200

```
{
  "result" : "",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for updating the start or end status of the current sprint.

Error Codes

See **Error Codes**.

4.2.3 Querying the Project List

Function

This API is used to query the project list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects

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Table 4-45 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** N/A **Range** 0–10000 **Default Value** 0
limit	Yes	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10
search	No	String	**Definition**: Project name or description for fuzzy query. **Constraints**: Advanced query methods like wildcard characters are not supported. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_type	No	String	**Definition** Project type. **Constraints** N/A **Range** **scrum**: Scrum project **normal**: normal project **xboard**: Kanban project **Default Value** N/A
sort	No	String	**Definition** Sorting criteria. **Constraints** Sorting parameter. The format is *field name + colon + sorting direction*. A maximum of four groups are supported, which are separated by commas (,). **Range** ((name|author_name|created_on|memcount)(:|%3A|%253A)(asc|desc|ASC|DESC)(,)?){0,4}. **Default Value** Creation time in descending order
archive	No	String	**Definition** Archived or not. **Constraints** N/A (The allowed values are defined in the range below.) **Range** **true** (not archived and currently in use) **false** (already archived and cannot be used) **Default Value** N/A

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Parameter	Mandatory	Type	Description
query_type	No	String	**Definition** By default, the projects that the current user participates in are returned. **Constraints** N/A (The allowed values are defined in the range below.) **Range** • **domain_projects** (all projects of a tenant) • **absent** (projects that the current user does not participate in) **Default Value** N/A

Request Parameters

Table 4-46 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-47 Response body parameters

Parameter	Type	Description
projects	Array of **projects** objects	**Definition**: Project information.
total	Integer	**Definition** Total number of projects. **Range** 0–10000

Table 4-48 projects

Parameter	Type	Description
project_num_id	Integer	**Definition**: Project number ID. This parameter is optional in the project deletion scenario. You can also use **project_num_id** to determine a unique project. **Options**: N/A
project_id	String	**Definition** Project UUID. **Range** N/A
project_name	String	**Definition**: Project name. **Options**: N/A
description	String	**Definition**: Project description. **Options**: N/A
created_time	Long	**Definition**: Time when a project was created. **Options**: N/A

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Parameter	Type	Description
updated_time	Long	**Definition**: Project update time. **Options**: N/A
project_type	String	**Definition**: Project type. **Value range**: **scrum**: Scrum project **normal**: normal project **xboard**: Kanban project
creator	**creator** object	**Definition**: Creator information. **Options**: N/A

Table 4-49 creator

Parameter	Type	Description
user_num_id	Integer	**Definition**: Creator numId. **Options**: N/A
user_id	String	**Definition** Creator ID. **Range** N/A
user_name	String	**Definition**: Creator name. **Options**: N/A
domain_id	String	**Definition** Tenant ID of the creator. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition**: Tenant name of the creator. **Options**: N/A
nick_name	String	**Definition**: Tenant nickname of the creator. **Options**: N/A

Status code: 400

Table 4-50 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-51 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Status code: 403

Table 4-52 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v4/projects?
limit=10&offset=0&project_type=scrum&sort=&search=aa&archive=true&query_type=domain_projects
```

Example Responses

Status code: 200

```
{
  "projects" : [ {
    "project_num_id" : 3183801,
    "project_id" : "41bd3eab86544863b8fc92ffcd35e3c8",
    "project_name" : "demo_project",
    "description" : "demo",
    "created_time" : 1576114296000,
    "updated_time" : 1576114296000,
    "project_type" : "xboard",
    "creator" : {
      "user_num_id" : 4097,
      "user_id" : "c4bd39f0573a436589714bedbcca8536",
      "user_name" : "mobile_user",
      "domain_id" : "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name" : "mobile_user",
      "nick_name" : "Tom.M.Riddle"
    }
  } ],
  "total" : 10
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectsV4Request request = new ListProjectsV4Request();
        try {
            ListProjectsV4Response response = client.listProjectsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectsV4Request()
        response = client.list_projects_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectsV4Request{}
    response, err := client.ListProjectsV4(request)
```

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```
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response body parameters
400	Bad Request
401	Unauthorized
403	Forbidden

Error Codes

See **Error Codes**.

4.2.4 Checking Whether the Project Name Exists

Function

This API is used to check whether a project name already exists.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v4/projects/check-name

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Request Parameters

Table 4-53 Request body parameters

Parameter	Mandatory	Type	Description
project_name	Yes	String	**Definition**: Project name. **Constraints**: Minimum length: 1 character. Maximum length: 128 characters. **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-54 Response body parameters

Parameter	Type	Description
exist	Boolean	**Definition**: Whether the same project name already exists. The options are **true** (exist) and **false** (not exist). **Options**: **true** and **false**

Status code: 400

Table 4-55 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-56 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/check-name

{
  "project_name" : "testDemo"
}
```

Example Responses

Status code: 200

```
{
  "exist" : true
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CheckProjectNameV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CheckProjectNameV4Request request = new CheckProjectNameV4Request();
        CheckProjectNameRequestV4 body = new CheckProjectNameRequestV4();
        body.withProjectName("testDemo");
        request.withBody(body);
        try {
            CheckProjectNameV4Response response = client.checkProjectNameV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
```

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```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CheckProjectNameV4Request()
        request.body = CheckProjectNameRequestV4(
            project_name="testDemo"
        )
        response = client.check_project_name_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CheckProjectNameV4Request{}
```

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```
    request.Body = &model.CheckProjectNameRequestV4{
        ProjectName: "testDemo",
    }
    response, err := client.CheckProjectNameV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.5 Obtaining Projects That a Tenant Has Not Joined

Function

This API is used to obtain projects that a tenant has not joined.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects/domain/not-added

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Table 4-57 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Start page number. The value starts from **0** and is an integer multiple of **limit**.
limit	No	Integer	Page size. Max.: 100.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-58 Response body parameters

Parameter	Type	Description
projects	Array of **projects** objects	Project Information List
total	Integer	Total number.

Table 4-59 projects

Parameter	Type	Description
created_time	Long	Indicates the time when the project is created.
creator	**creator** object	Initiator Info
description	String	Project description
project_id	String	Project ID.
project_name	String	Project name
project_num_id	Integer	Project ID
project_type	String	**Definition**: Project type. **Value range**: **scrum**: Scrum project **normal**: normal project **xboard**: Kanban project

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Parameter	Type	Description
updated_time	Long	Indicates the time when the project is updated.

Table 4-60 creator

Parameter	Type	Description
domain_id	String	Creator tenant ID.
domain_name	String	Tenant name of the creator.
nick_name	String	Tenant nickname of the creator.
user_id	String	Creator ID.
user_name	String	Creator name
user_num_id	Integer	Creator numId

Status code: 400

Table 4-61 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-62 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/domain/not-added
```

Example Responses

Status code: 200

```
{
  "projects" : [ {
    "project_num_id" : 3056544,
    "project_id" : "e2da96a5d2c845e284f0ad47f8ca8cb1",
    "project_name" : "demo_project",
    "description" : "This is a demo.",
    "created_time" : "1571296951000",
    "updated_time" : "1571296951000",
    "project_type" : "scrum",
    "creator" : {
      "user_num_id" : 4097,
      "user_id" : "c4bd39f0573a436589714bedbcca8536",
      "user_name" : "mobile_user",
      "domain_id" : "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name" : "mobile_user",
      "nick_name" : "Tom.M.Riddle"
    }
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```

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```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListDomainNotAddedProjectsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListDomainNotAddedProjectsV4Request request = new ListDomainNotAddedProjectsV4Request();
        try {
            ListDomainNotAddedProjectsV4Response response = client.listDomainNotAddedProjectsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
```

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```
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListDomainNotAddedProjectsV4Request()
        response = client.list_domain_not_added_projects_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListDomainNotAddedProjectsV4Request{}
    response, err := client.ListDomainNotAddedProjectsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.6 This API is used to obtain project details.

Function

This API is used to query project details.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects/{project_id}

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Table 4-63 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-64 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-65 Response body parameters

Parameter	Type	Description
project	**project** object	**Definition**: Project information.

Table 4-66 project

Parameter	Type	Description
project_num_id	Integer	**Definition**: Project number ID. This parameter is optional in the project deletion scenario. You can also use **project_num_id** to determine a unique project. **Options**: N/A
project_id	String	**Definition** Project UUID. **Range** N/A
name	String	**Definition**: Project name. **Options**: N/A
created_on	Long	**Definition**: Time when a project was created. **Options**: N/A
updated_on	Long	**Definition**: Project update time. **Options**: N/A
project_type	String	**Definition**: Project type. **Value range**: **scrum**: Scrum project **normal**: normal project **xboard**: Kanban project

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Parameter	Type	Description
archive	Integer	**Definition**: Archived or not. **Options**: **true** (not archived and currently in use) **false** (already archived and cannot be used)
enterprise_id	String	**Definition** Enterprise project ID. **Range** N/A
project_code	String	**Definition**: Project code. **Options**: N/A
creator	**creator** object	**Definition**: Creator information.

Table 4-67 creator

Parameter	Type	Description
domain_id	String	**Definition** Tenant ID of the creator. **Range** N/A
domain_name	String	**Definition**: Tenant name of the creator. **Options**: N/A
nick_name	String	**Definition**: Creator alias. **Options**: N/A

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Parameter	Type	Description
user_id	String	**Definition** Creator UUID. **Range** N/A
user_name	String	**Definition**: Creator name. **Options**: N/A
user_num_id	Integer	**Definition**: Creator num_id. **Options**: N/A

Status code: 400

Table 4-68 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-69 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a
```

Example Responses

Status code: 200

```
{
  "project" : {
    "project_num_id" : 3183801,
    "project_id" : "41bd3eab86544863b8fc92ffcd35e3c8",
    "name" : "demo_project",
    "created_on" : 1576114296000,
    "updated_on" : 1576114296000,
    "project_type" : "scrum",
    "archive" : 1,
    "enterprise_id" : "041bd3eab86544863b8f92ffcd35e218",
    "project_code" : "abc_123",
    "creator" : {
      "user_num_id" : 4097,
      "user_id" : "c4bd39f0573a436589714bedbcca8536",
      "user_name" : "mobile_user",
      "domain_id" : "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name" : "mobile_user",
      "nick_name" : "Tom.M.Riddle"
    }
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
```

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```
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowProjectInfoV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowProjectInfoV4Request request = new ShowProjectInfoV4Request();
        request.withProjectId("{project_id}");
        try {
            ShowProjectInfoV4Response response = client.showProjectInfoV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowProjectInfoV4Request()
```

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```
        request.project_id = "{project_id}"
        response = client.show_project_info_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowProjectInfoV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowProjectInfoV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.7 Updating a Project

Function

This API is used to update a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v4/projects/{project_id}

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Table 4-70 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-71 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
project_name	Yes	String	Project name

Response Parameters

Status code: 204

None

Status code: 400

Table 4-72 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-73 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af

{
  "description" : "2222",
  "project_name" : "ProjectUnionSDKTest_lj9"
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateProjectV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateProjectV4Request request = new UpdateProjectV4Request();
        request.withProjectId("{project_id}");
        UpdateProjectRequestV4 body = new UpdateProjectRequestV4();
        body.withProjectName("ProjectUnionSDKTest_lj9");
        body.withDescription("2222");
        request.withBody(body);
        try {
            UpdateProjectV4Response response = client.updateProjectV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateProjectV4Request()
        request.project_id = "{project_id}"
        request.body = UpdateProjectRequestV4(
            project_name="ProjectUnionSDKTest_lj9",
            description="2222"
        )
        response = client.update_project_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }
```

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```
    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateProjectV4Request{}
    request.ProjectId = "{project_id}"
    descriptionUpdateProjectRequestV4:= "2222"
    request.Body = &model.UpdateProjectRequestV4{
        ProjectName: "ProjectUnionSDKTest_lj9",
        Description: &descriptionUpdateProjectRequestV4,
    }
    response, err := client.UpdateProjectV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.8 Deleting a Project

Function

This API is used to delete a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v4/projects/{project_id}

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Table 4-74 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-75 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 204

None

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Status code: 400

Table 4-76 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-77 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteProjectV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteProjectV4Request request = new DeleteProjectV4Request();
        request.withProjectId("{project_id}");
        try {
            DeleteProjectV4Response response = client.deleteProjectV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteProjectV4Request()
        request.project_id = "{project_id}"
        response = client.delete_project_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.DeleteProjectV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.DeleteProjectV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.9 Querying a Project Template

Function

This API is used to query a project template.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects/{project_id}/templates

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Table 4-78 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-79 Query Parameters

Parameter	Mandatory	Type	Description
tracker_id	No	String	**Definition**: Work item type ID. **Constraints**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: Minimum value: **2**. Maximum value: **7**. **Default value**: N/A

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Request Parameters

Table 4-80 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-81 Response body parameters

Parameter	Type	Description
templates	Array of **templates** objects	**Definition**: Template information list.

Table 4-82 templates

Parameter	Type	Description
id	Integer	**Definition** Template ID. **Range** N/A
project_id	Integer	**Definition** Project ID. **Range** N/A

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Parameter	Type	Description
tracker_id	Integer	**Definition** Work item type ID. **Range** **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
description	String	**Definition**: Description of a work item template. **Options**: Minimum length: 0 characters. Maximum length: 65,535 characters.
issue_field_config	String	**Definition**: Template configuration. **Options**: N/A

Status code: 400

Table 4-83 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-84 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/fcd58d40cc4d46baaea02f2e6e75ee1f/templates?tracker_id=2
```

Example Responses

Status code: 200

```
{
  "templates" : [ {
    "id" : 1793674,
    "project_id" : 30384422,
    "tracker_id" : 2,
    "description" : "",
    "issue_field_config" : ""
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;
```

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```
public class ListTemplatesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListTemplatesRequest request = new ListTemplatesRequest();
        request.withProjectId("{project_id}");
        try {
            ListTemplatesResponse response = client.listTemplates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListTemplatesRequest()
        request.project_id = "{project_id}"
        response = client.list_templates(request)
        print(response)
```

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```
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListTemplatesRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListTemplates(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.10 Creating or Updating a Work Item Template

Function

This API is used to create or update a work item template.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/project/templates

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Request Parameters

Table 4-85 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-86 Request body parameters

Parameter	Mandatory	Type	Description
projectUUID	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Description of a work item template. **Constraints**: Minimum length: 0 characters. Maximum length: 65,535 characters. **Options**: N/A **Default value**: N/A
trackerId	Yes	Integer	**Definition** Work item type ID. **Constraints** N/A **Range** **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default Value** N/A
issueFieldConfigs	No	Array of **IssueFieldConfig** objects	**Definition**: Field configuration information. **Constraints**: N/A

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Table 4-87 IssueFieldConfig

Parameter	Mandatory	Type	Description
field	No	String	**Definition**: Field name. **Constraints**: Only uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-) are allowed. **Options**: N/A **Default value**: N/A
is_required	No	Integer	**Definition**: Whether a field is mandatory. **Constraints**: N/A **Options**: **0**: optional **1**: mandatory **Default value**: N/A
default_value	No	String	**Definition** Default value of a field. **Constraints** 1 to 1,000 characters. **Range** N/A **Default Value** N/A
position	No	Integer	**Definition** Field priority. **Constraints** A numeric string of 1 to 10 characters. **Range** N/A **Default Value** N/A

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Response Parameters

Status code: 200

None

Status code: 400

Table 4-88 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
POST https://{endpoint}/v2/project/templates

{
  "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
  "projectUUID" : "816e5f0877544de58010157fc30da3e7",
  "trackerId" : "7",
  "issueFieldConfigs" : [ {
    "field" : "status_id",
    "is_required" : 2,
    "default_value" : "New",
    "position" : 1
  }, {
    "field" : "assigned_to_id",
    "is_required" : 2,
    "default_value" : "Myself",
    "position" : 2
  }, {
    "field" : "module_id",
    "is_required" : 1,
    "default_value" : "",
    "position" : 3,
    "is_visible" : true
  }, {
    "field" : "fixed_version_id",
    "is_required" : 0,
    "default_value" : "",
    "position" : 4
  }, {
    "field" : "start_date",
    "is_required" : 0,
    "default_value" : "",
    "position" : 5
```

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```
}, {
  "field" : "due_date",
  "is_required" : 0,
  "default_value" : "",
  "position" : 6
}, {
  "field" : "order",
  "is_required" : 0,
  "default_value" : "1",
  "position" : 7
}, {
  "field" : "priority_id",
  "is_required" : 2,
  "default_value" : "Medium",
  "position" : 8
}, {
  "field" : "severity_id",
  "is_required" : 2,
  "default_value" : "Minor",
  "position" : 9
}, {
  "field" : "assigned_cc",
  "is_required" : 0,
  "default_value" : "",
  "position" : 10
}, {
  "field" : "parent_issue_id",
  "is_required" : 0,
  "default_value" : "",
  "position" : 11
}, {
  "field" : "domain_id",
  "is_required" : 0,
  "default_value" : "",
  "position" : 12
}, {
  "field" : "more",
  "is_required" : 0,
  "default_value" : "",
  "position" : 13
}, {
  "field" : "releaseDev",
  "is_required" : 0,
  "default_value" : "",
  "position" : 14
}, {
  "field" : "developer",
  "is_required" : 0,
  "default_value" : "",
  "position" : 15
}, {
  "field" : "expected_work_hours",
  "is_required" : 0,
  "default_value" : "0",
  "position" : 16
}, {
  "field" : "actual_work_hours",
  "is_required" : 0,
  "default_value" : "",
  "position" : 17
}, {
  "field" : "done_ratio",
  "is_required" : 0,
  "default_value" : "",
  "position" : 18
}, {
  "field" : "story_point_id",
  "is_required" : 0,
  "default_value" : "1",
```


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```
    "position" : 19
  }, {
    "field" : "custom_field18",
    "is_required" : 0,
    "default_value" : "",
    "position" : 20
  } ]
}
```

Example Responses

Status code: 200

```
{
  "result" : { },
  "status" : "success"
}
```

Status code: 400

```
{
  "error_code" : "PM.02100011",
  "error_msg" : "No access permission."
}
```

Status Codes

Status Code	Description
200	The API is successfully responded.
400	Error response indicating no permission.

Error Codes

See **Error Codes**.

4.3 Project Indicators

4.3.1 Querying Per Capita Bugs

Function

This API is used to query average bugs per user.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

POST /v1/{project_id}/bugs-per-developer/query

Table 4-89 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-90 Request body parameters

Parameter	Mandatory	Type	Description
dividend	No	**dividend** object	**Definition**: Metric numerator (default: number of bugs of specified developers in the project). **Options**: N/A
divisor	No	**divisor** object	**Definition**: Metric denominator (default: number of developers in the project). **Options**: N/A

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Parameter	Mandatory	Type	Description
metric_type	No	String	**Definition**: Metric type. **Constraints**: N/A **Value range**: **on-time_completion_rate** (completion rate) **bug_density** (bug percentage per thousand lines of code) **issues_per_developer** (number of bugs per developer) **Default value**: N/A
sprint_id	No	String	**Definition**: Sprint ID, which can be obtained using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-91 dividend

Parameter	Mandatory	Type	Description
custom_field16	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field17	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field18	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field19	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field20	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field21	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field22	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field23	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field24	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field25	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field26	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field27	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field28	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field29	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field30	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field31	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field32	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field33	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field34	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field35	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field36	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field37	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field38	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field39	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field40	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Table 4-92 divisor

Parameter	Mandatory	Type	Description
custom_field16	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field17	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field18	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field19	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field20	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field21	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field22	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field23	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field24	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field25	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field26	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field27	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field28	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field29	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field30	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field31	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field32	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field33	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field34	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field35	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field36	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field37	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field38	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A
custom_field39	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field40	No	String	**Definition**: Custom field. **Constraints**: Based on the custom values. **Options**: Based on the custom values. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-93 Response body parameters

Parameter	Type	Description
dividend_value	String	**Definition**: Numerator. **Options**: N/A
divisor_value	String	**Definition**: Denominator. **Options**: N/A
metric_name	String	**Definition**: Metric name. **Options**: N/A
metric_value	String	**Definition**: Metric value. **Options**: N/A
project_id	String	**Definition**: Project ID. **Options**: N/A

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Parameter	Type	Description
project_name	String	**Definition**: Project name. **Options**: N/A

Status code: 400

Table 4-94 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-95 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
POST https://{endpoint}/v1/eace9c0a00574de6878ab580daa9a317/bugs-per-developer/query

{ }
```

Example Responses

Status code: 200

```
{
  "project_id" : "89ad9e4f9cec4725bff5b8d62c1f98d6",
  "project_name" : "ScrumReport verification",
  "metric_value" : "2.0",
  "metric_name" : "bugs_per_developer",
  "dividend_value" : "2",
  "divisor_value" : "1"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowBugsPerDeveloperSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowBugsPerDeveloperRequest request = new ShowBugsPerDeveloperRequest();
        request.withProjectId("{project_id}");
        MetricRequest2 body = new MetricRequest2();
        request.withBody(body);
        try {
            ShowBugsPerDeveloperResponse response = client.showBugsPerDeveloper(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
```

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```
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowBugsPerDeveloperRequest()
        request.project_id = "{project_id}"
        request.body = MetricRequest2(
        )
        response = client.show_bugs_per_developer(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

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```
    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowBugsPerDeveloperRequest{}
    request.ProjectId = "{project_id}"
    request.Body = &model.MetricRequest2{
    }
    response, err := client.ShowBugsPerDeveloper(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.3.2 Querying the On-Time Requirement Completion Rate

Function

This API is used to query on–time requirement completion rate.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/{project_id}/completion-rate/query

Table 4-96 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-97 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-98 Request body parameters

Parameter	Mandatory	Type	Description
date_range	No	String	**Definition** Statistical period. **Constraints** Two numeric strings of 1 to 15 characters, separated by a comma (,). **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
metric_type	No	String	**Definition**: Metric type. **Constraints**: N/A **Value range**: **bug_density**: bug density **issues_per_developer**: number of issues completed by developers every day **on-time_completion_rate**: on-time requirement completion rate **Default value**: N/A
sprint_id	No	String	**Definition** Sprint ID, which can be obtained using the **Obtaining the Sprint List of a Specified Project** API. **Constraints** The value can contain 0 to 32,768 characters, including letters, digits, commas (,), and hyphens (-). **Range** N/A **Default Value** N/A
dividend	No	**dividend** object	**Definition**: Numerator filter criteria. **Constraints**: N/A
divisor	No	**divisor** object	Indicator Denominator Filter Criteria

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Table 4-99 dividend

Parameter	Mandatory	Type	Description
custom_field16	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field17	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field18	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field19	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field20	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field21	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field22	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field23	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field24	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field25	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field26	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field27	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field28	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field29	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field30	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field31	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field32	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field33	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field34	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field35	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field36	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field37	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field38	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field39	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field40	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
on_time	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-100 divisor

Parameter	Mandatory	Type	Description
custom_field16	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field17	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field18	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field19	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field20	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field21	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field22	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field23	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field24	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field25	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field26	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field27	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field28	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field29	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field30	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field31	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field32	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field33	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field34	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field35	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field36	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field37	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field38	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field39	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field40	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
on_time	No	String	**Definition** On time or not. **Constraints** N/A (The allowed values are defined in the range below.) **Range** **ontime**: on time **all**: all **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-101 Response body parameters

Parameter	Type	Description
dividend_value	String	**Definition**: Numerator. **Options**: N/A
divisor_value	String	**Definition**: Denominator. **Options**: N/A
metric_name	String	**Definition**: Metric name. **Options**: N/A
metric_value	String	**Definition**: Metric value. **Options**: N/A
project_id	String	**Definition**: Project ID. **Options**: N/A
project_name	String	**Definition**: Project name. **Options**: N/A

Status code: 400

Table 4-102 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-103 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v1/eace9c0a00574de6878ab580daa9a317/completion-rate/query

{
  "date_range" : "1598457600000,1598544000000",
  "dividend" : {
    "custom_field16" : "Custom field value",
    "on_time" : "ontime"
  },
  "divisor" : {
    "custom_field16" : "Custom field value",
    "on_time" : "ontime"
  },
  "metric_type" : "on-time_completion_rate",
  "sprint_id" : "8883443"
}
```

Example Responses

Status code: 200

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```
{
  "dividend_value" : 15,
  "divisor_value" : 20,
  "metric_name" : "completion_rate|bug_density|bugs_per_developer",
  "metric_value" : 0.8945,
  "project_id" : "eace9c0a00574de6878ab580daa9a317",
  "project_name" : "My Project"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowCompletionRateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowCompletionRateRequest request = new ShowCompletionRateRequest();
        request.withProjectId("{project_id}");
        MetricRequest3 body = new MetricRequest3();
        MetricRequest3Dividend dividendbody = new MetricRequest3Dividend();
        dividendbody.withOnTime("ontime")
            .withCustomField16("Custom field value");
        body.withDivisor("{\"on_time\":\"ontime\",\"custom_field16\":\"Custom field value\"}");
        body.withDividend(dividendbody);
        body.withSprintId("8883443");
        body.withMetricType("on-time_completion_rate");
        body.withDateRange("1598457600000,1598544000000");
        request.withBody(body);
        try {
            ShowCompletionRateResponse response = client.showCompletionRate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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```
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowCompletionRateRequest()
        request.project_id = "{project_id}"
        dividendbody = MetricRequest3Dividend(
            on_time="ontime",
            custom_field16="Custom field value"
        )
        request.body = MetricRequest3(
            divisor="{\"on_time\":\"ontime\",\"custom_field16\":\"Custom field value\"}",
            dividend=dividendbody,
            sprint_id="8883443",
            metric_type="on-time_completion_rate",
            date_range="1598457600000,1598544000000"
        )
        response = client.show_completion_rate(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowCompletionRateRequest{}
    request.ProjectId = "{project_id}"
    onTimeDividend:= "ontime"
    customField16Dividend:= "Custom field value"
    dividendbody := &model.MetricRequest3Dividend{
        OnTime: &onTimeDividend,
        CustomField16: &customField16Dividend,
    }
    var divisorMetricRequest3 interface{} = "{\"on_time\":\"ontime\",\"custom_field16\":\"Custom field value\"}"
    sprintIdMetricRequest3:= "8883443"
    metricTypeMetricRequest3:= "on-time_completion_rate"
    dateRangeMetricRequest3:= "1598457600000,1598544000000"
    request.Body = &model.MetricRequest3{
        Divisor: &divisorMetricRequest3,
        Dividend: dividendbody,
        SprintId: &sprintIdMetricRequest3,
        MetricType: &metricTypeMetricRequest3,
        DateRange: &dateRangeMetricRequest3,
    }
    response, err := client.ShowCompletionRate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.3.3 Querying the Bug Density

Function

This API is used to query bug density.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/{project_id}/bug-density/query

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Table 4-104 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-105 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-106 Request body parameters

Parameter	Mandatory	Type	Description
date_range	No	String	**Definition**: Statistical period. **Constraints**: N/A **Options**: N/A **Default value**: N/A
metric_type	No	String	**Definition**: Metric type of bug density. **Constraints**: N/A **Value range**: **bug_density**: bug density **Default value**: N/A
dividend	No	**dividend** object	**Default value**: N/A **Definition**: Numerator filter criteria. **Constraints**: N/A
divisor	No	**divisor** object	**Definition**: Denominator filter criteria. **Constraints**: N/A

Table 4-107 dividend

Parameter	Mandatory	Type	Description
custom_fields	No	Array of **custom_fields** objects	**Definition**: Custom type filter criteria. **Constraints**: N/A

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Table 4-108 custom_fields

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Custom field name. **Constraints**: The value is a string of 1 to 40 characters, which can contain letters, digits, spaces, and specific special characters. **Options**: N/A **Default value**: N/A
options	No	String	**Definition**: Custom field values. **Constraints**: Use commas to separated values. **Options**: The value contains 1 to 2,500 characters. **Default value**: N/A

Table 4-109 divisor

Parameter	Mandatory	Type	Description
custom_fields	No	Array of **custom_fields** objects	**Definition**: Custom type filter criteria. **Constraints**: N/A

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Table 4-110 custom_fields

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Custom field name. **Constraints**: Use commas to separated values. **Options**: N/A **Default value**: N/A
options	No	String	**Definition**: Custom field values. **Constraints**: Use commas to separated values. **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-111 Response body parameters

Parameter	Type	Description
dividend_value	String	**Definition**: Numerator. **Options**: N/A
divisor_value	String	**Definition**: Denominator. **Options**: N/A

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Parameter	Type	Description
metric_name	String	**Definition**: Metric name. **Options**: N/A
metric_value	String	**Definition**: Metric value. **Options**: N/A
project_id	String	**Definition**: Project ID. **Options**: N/A
project_name	String	**Definition**: Project name. **Options**: N/A

Status code: 400

Table 4-112 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-113 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v2/eace9c0a00574de6878ab580daa9a317/bug-density/query

{
  "date_range" : "1590940800000,1593446400000",
  "dividend" : {
    "custom_fields" : [ {
      "name" : "Custom field name.",
      "options" : "Custom field value"
    } ]
  },
  "divisor" : {
    "custom_fields" : [ {
      "name" : "Custom field name.",
      "options" : "Custom field value"
    } ]
  },
  "metric_type" : "bug_density"
}
```

Example Responses

Status code: 200

```
{
  "dividend_value" : 15,
  "divisor_value" : 20,
  "metric_name" : "completion_rate|bug_density|bugs_per_developer",
  "metric_value" : 0.8945,
  "project_id" : "eace9c0a00574de6878ab580daa9a317",
  "project_name" : "demo"
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class ShowBugDensityV2Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowBugDensityV2Request request = new ShowBugDensityV2Request();
        request.withProjectId("{project_id}");
        MetricRequestV2 body = new MetricRequestV2();
        List<MetricRequestV2DividendCustomFields> listDividendCustomFields = new ArrayList<>();
        listDividendCustomFields.add(
            new MetricRequestV2DividendCustomFields()
                .withName("Custom field name.")
                .withOptions("Custom field value")
        );
        MetricRequestV2Dividend dividendbody = new MetricRequestV2Dividend();
        dividendbody.withCustomFields(listDividendCustomFields);
        body.withDivisor("{\"custom_fields\":[{\"name\":\"Custom field name.\",\"options\":\"Custom field value\"}]}");
        body.withDividend(dividendbody);
        body.withMetricType("bug_density");
        body.withDateRange("1590940800000,1593446400000");
        request.withBody(body);
        try {
            ShowBugDensityV2Response response = client.showBugDensityV2(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowBugDensityV2Request()
        request.project_id = "{project_id}"
        listCustomFieldsDividend = [
            MetricRequestV2DividendCustomFields(
                name="Custom field name.",
                options="Custom field value"
            )
        ]
        dividendbody = MetricRequestV2Dividend(
            custom_fields=listCustomFieldsDividend
        )
        request.body = MetricRequestV2(
            divisor="{\"custom_fields\":[{\"name\":\"Custom field name.\",\"options\":\"Custom field value\"}]}",
            dividend=dividendbody,
            metric_type="bug_density",
            date_range="1590940800000,1593446400000"
        )
        response = client.show_bug_density_v2(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
```

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```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowBugDensityV2Request{}
    request.ProjectId = "{project_id}"
    nameCustomFields:= "Custom field name."
    optionsCustomFields:= "Custom field value"
    var listCustomFieldsDividend = []model.MetricRequestV2DividendCustomFields{
        {
            Name: &nameCustomFields,
            Options: &optionsCustomFields,
        },
    }
    dividendbody := &model.MetricRequestV2Dividend{
        CustomFields: &listCustomFieldsDividend,
    }
    var divisorMetricRequestV2 interface{} = "{\"custom_fields\":[{\"name\":\"Custom field name.\",\"options
\":\"Custom field value\"}]}"
    metricTypeMetricRequestV2:= "bug_density"
    dateRangeMetricRequestV2:= "1590940800000,1593446400000"
    request.Body = &model.MetricRequestV2{
        Divisor: &divisorMetricRequestV2,
        Dividend: dividendbody,
        MetricType: &metricTypeMetricRequestV2,
        DateRange: &dateRangeMetricRequestV2,
    }
    response, err := client.ShowBugDensityV2(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.4 Project Statistics

4.4.1 Obtaining Bug Statistics

Function

This API is used to obtain bug statistics by module.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:defect:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/bug-statistic

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Table 4-114 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-115 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-116 Response body parameters

Parameter	Type	Description
bug_statistics	Array of **BugStatisticResponseV4** objects	**Definition**: Bug statistics.

Table 4-117 BugStatisticResponseV4

Parameter	Type	Description
critical_num	Integer	**Definition**: Number of critical bugs. **Options**: N/A
defect_index	Double	**Definition**: DI value, which is different for bugs of different severities. **Options**: N/A
module	String	**Definition**: Module. **Options**: N/A
normal_num	Integer	**Definition**: Number of minor bugs. **Options**: N/A
serious_num	Integer	**Definition**: Number of major bugs. **Options**: N/A
tip_num	Integer	**Definition**: Number of info bugs. **Options**: N/A
total	Integer	**Definition**: Total number. **Options**: N/A

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Status code: 400

Table 4-118 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-119 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/bug-statistic
```

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Example Responses

Status code: 200

```
{
  "bug_statistics" : [ {
    "critical_num" : 0,
    "defect_index" : 1,
    "module" : "Statistical score.",
    "normal_num" : 1,
    "serious_num" : 0,
    "tip_num" : 0,
    "total" : 1
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectBugStaticsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectBugStaticsV4Request request = new ListProjectBugStaticsV4Request();
        request.withProjectId("{project_id}");
        try {
            ListProjectBugStaticsV4Response response = client.listProjectBugStaticsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
```

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```
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectBugStaticsV4Request()
        request.project_id = "{project_id}"
        response = client.list_project_bug_statics_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
```

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```
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectBugStaticsV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectBugStaticsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	**Definition**: Bug statistics.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.4.2 Obtaining Statistics of Story Work Items in a Scrum Project

Function

This API is used to collect the number of stories with all statuses of the current project by module by default.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:developmentRequirement:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/demand-statistic

Table 4-120 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-121 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-122 Response body parameters

Parameter	Type	Description
demand_statistics	Array of **DemandStatisticResponseV4** objects	**Definition**: Story work item statistics.

Table 4-123 DemandStatisticResponseV4

Parameter	Type	Description
closed_num	Integer	**Definition**: Number of closed work items by module. **Options**: N/A

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Parameter	Type	Description
module	String	**Definition**: Module information. **Options**: N/A
new_num	Integer	**Definition**: Number of created work items by module. **Options**: N/A
process_num	Integer	**Definition**: Number of ongoing work items by module. **Options**: N/A
rejected_num	Integer	**Definition**: Number of rejected work items by module. **Options**: N/A
solved_num	Integer	**Definition**: Number of resolved work items by module. **Options**: N/A
test_num	Integer	**Definition**: Number of tests by module. **Options**: N/A
total	Integer	**Definition**: Total number of work items by module. **Options**: N/A

Status code: 400

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Table 4-124 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-125 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/demand-statistic
```

Example Responses

Status code: 200

```
{
  "demand_statistics" : [ {
    "closed_num" : 1,
    "module" : "Billing",
```

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```
    "new_num" : 1,
    "process_num" : 1,
    "rejected_num" : 1,
    "solved_num" : 1,
    "test_num" : 1,
    "total" : 1
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectDemandStaticV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectDemandStaticV4Request request = new ListProjectDemandStaticV4Request();
        request.withProjectId("{project_id}");
        try {
            ListProjectDemandStaticV4Response response = client.listProjectDemandStaticV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectDemandStaticV4Request()
        request.project_id = "{project_id}"
        response = client.list_project_demand_static_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
```

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```
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectDemandStaticV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectDemandStaticV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.4.3 Obtaining the Overview of a Scrum Project

Function

This API is used to obtain the overview of a Scrum project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:project:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/summary

Table 4-126 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-127 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-128 Response body parameters

Parameter	Type	Description
bug_statistics	Array of **BugStatisticResponseV4** objects	**Definition**: Bug list.
demand_statistics	Array of **DemandStatisticResponseV4** objects	**Definition**: Statistics list by module.
issue_completion_rates	Array of **IssueCompletionRateResponseV4** objects	**Definition**: Statistics list by work item type.
project_id	String	**Definition** Project ID. **Range** Length: 32 characters

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Table 4-129 BugStatisticResponseV4

Parameter	Type	Description
critical_num	Integer	**Definition**: Number of critical bugs. **Options**: N/A
defect_index	Double	**Definition**: DI value, which is different for bugs of different severities. **Options**: N/A
module	String	**Definition**: Module. **Options**: N/A
normal_num	Integer	**Definition**: Number of minor bugs. **Options**: N/A
serious_num	Integer	**Definition**: Number of major bugs. **Options**: N/A
tip_num	Integer	**Definition**: Number of info bugs. **Options**: N/A
total	Integer	**Definition**: Total number. **Options**: N/A

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Table 4-130 DemandStatisticResponseV4

Parameter	Type	Description
closed_num	Integer	**Definition**: Number of closed work items by module. **Options**: N/A
module	String	**Definition**: Module information. **Options**: N/A
new_num	Integer	**Definition**: Number of created work items by module. **Options**: N/A
process_num	Integer	**Definition**: Number of ongoing work items by module. **Options**: N/A
rejected_num	Integer	**Definition**: Number of rejected work items by module. **Options**: N/A
solved_num	Integer	**Definition**: Number of resolved work items by module. **Options**: N/A
test_num	Integer	**Definition**: Number of tests by module. **Options**: N/A

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Parameter	Type	Description
total	Integer	**Definition**: Total number of work items by module. **Options**: N/A

Table 4-131 IssueCompletionRateResponseV4

Parameter	Type	Description
issue_status	**IssueStatusResponseV4** object	**Definition**: Work item status statistics.
tracker_id	Integer	**Definition**: Work item type. **Options**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-132 IssueStatusResponseV4

Parameter	Type	Description
closed_num	Integer	**Definition**: Number of closed work items in the current project. **Options**: N/A
new_num	Integer	**Definition**: Number of new work items in the current project. **Options**: N/A

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Parameter	Type	Description
process_num	Integer	**Definition**: Number of work items being developed in the current project. **Options**: N/A
rejected_num	Integer	**Definition**: Number of rejected work items in the current project. **Options**: N/A
solved_num	Integer	**Definition**: Number of resolved work items in the current project. **Options**: N/A
test_num	Integer	**Definition**: Number of work items under test in the current project. **Options**: N/A

Status code: 400

Table 4-133 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-134 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/summary
```

Example Responses

Status code: 200

```
{
  "bug_statistics" : [ {
    "critical_num" : 0,
    "defect_index" : 1,
    "module" : "Statistical Score",
    "normal_num" : 1,
    "serious_num" : 0,
    "tip_num" : 0,
    "total" : 1
  } ],
  "demand_statistics" : [ {
    "closed_num" : 1,
    "module" : "Billing",
    "new_num" : 1,
    "process_num" : 1,
    "rejected_num" : 1,
    "solved_num" : 1,
    "test_num" : 1,
    "total" : 1
  } ],
  "issue_completion_rates" : [ {
    "issue_status" : {
      "closed_num" : 1,
      "new_num" : 1,
      "process_num" : 1,
      "rejected_num" : 1,
      "solved_num" : 1,
      "test_num" : 1
    },
    "tracker_id" : 0
```

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```
 } ],
 "project_id" : "526cefde62004de2b62b5e8dd2c2b3af"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowProjectSummaryV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowProjectSummaryV4Request request = new ShowProjectSummaryV4Request();
        request.withProjectId("{project_id}");
        try {
            ShowProjectSummaryV4Response response = client.showProjectSummaryV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
```

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```
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowProjectSummaryV4Request()
        request.project_id = "{project_id}"
        response = client.show_project_summary_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
```

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```
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowProjectSummaryV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowProjectSummaryV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5 Sprints of a Scrum Project

4.5.1 Viewing Sprint Details

Function

This API is used to view sprint details.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/iterations/{iteration_id}

Table 4-135 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	String	**Definition** Sprint ID. You can obtain the sprint ID of a specific project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Request Parameters

Table 4-136 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-137 Response body parameters

Parameter	Type	Description
begin_time	String	**Definition**: Sprint start time: YYYY-MM-DD. **Options**: N/A
charts	Array of **Chart** objects	**Definition**: Burndown chart.
closed_total	Integer	**Definition**: Number of closed tickets. **Options**: N/A
created_time	String	**Definition**: Sprint creation time. **Options**: N/A

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Parameter	Type	Description
end_time	String	**Definition**: Sprint end time: YYYY-MM-DD. **Options**: N/A
have_task	Boolean	**Definition**: Whether there is a task. **Options**: **true**: yes **false**: no
iteration_id	Integer	**Definition** Sprint ID. **Range** N/A
name	String	**Definition**: Sprint title. **Options**: N/A
opened_total	Integer	**Definition**: Number of open tickets. **Options**: N/A
progress	String	**Definition**: Work progress. **Options**: N/A
status	String	**Definition**: Sprint status. **Value range**: **0**: not started **1**: ongoing **2**: ended
total	Integer	**Definition**: Total number of tickets. **Options**: N/A

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Parameter	Type	Description
updated_time	String	**Definition**: Sprint update time. **Options**: N/A

Table 4-138 Chart

Parameter	Type	Description
date	String	**Definition**: Statistics collection time. **Options**: N/A
finished_num	Integer	**Definition**: Number of completed stories. **Options**: N/A
iteration_id	Integer	**Definition** Sprint ID. **Range** N/A
project_num_id	Integer	**Definition** Project ID. **Range** N/A
remaining_num	Integer	**Definition**: Number of uncompleted stories. **Options**: N/A
total	Integer	**Definition**: Total number of stories. **Options**: N/A

Status code: 400

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Table 4-139 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-140 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/iterations/11225793
```

Example Responses

Status code: 200

```
{
  "begin_time" : "2020-07-12",
  "charts" : [ {
    "date" : "2020-09-12",
```

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```
    "finished_num" : 1,
    "iteration_id" : 3789,
    "project_num_id" : 36587463,
    "remaining_num" : 3,
    "total" : 4
  } ],
  "closed_total" : 1,
  "created_time" : "2020-06-30 09:10:03",
  "end_time" : "2020-07-19",
  "have_task" : false,
  "iteration_id" : 35789,
  "name" : "Sprint 1",
  "opened_total" : 3,
  "progress" : "25%",
  "total" : 4,
  "updated_time" : "2020-06-30 09:10:03",
  "status" : "0"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIterationV4Request request = new ShowIterationV4Request();
        request.withIterationId({iteration_id});
        try {
            ShowIterationV4Response response = client.showIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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```
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIterationV4Request()
        request.iteration_id = {iteration_id}
        response = client.show_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIterationV4Request{}
    request.IterationId = int32({iteration_id})
    response, err := client.ShowIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5.2 Creating a Scrum Project Sprint

Function

This API is used to create a Scrum project sprint.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/iteration

Table 4-141 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-142 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-143 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	**Definition** Start time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A

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Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Sprint description. **Constraints**: This field can be left blank. **Options**: Minimum length: 0 characters. Maximum length: 500 characters. **Default value**: N/A
end_time	Yes	String	**Definition** End time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A
name	Yes	String	**Definition**: Title. **Constraints**: N/A **Options**: Minimum length: 1 character. Maximum length: 255 characters. **Default value**: N/A

Response Parameters

Status code: 201

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Table 4-144 Response body parameters

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** N/A

Status code: 400

Table 4-145 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-146 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration

{
  "end_time" : "2018-07-05",
  "name" : "Sprint 1",
  "begin_time" : "2018-1-31",
  "description" : ""
}
```

Example Responses

Status code: 201

```
{
  "id" : 7312121
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIterationV4Request request = new CreateIterationV4Request();
        request.withProjectId("{project_id}");
        CreateIterationRequestV4 body = new CreateIterationRequestV4();
        body.withName("Sprint 1");
        body.withEndTime("2018-07-05");
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        request.withBody(body);
        try {
            CreateIterationV4Response response = client.createIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIterationV4Request()
        request.project_id = "{project_id}"
        request.body = CreateIterationRequestV4(
            name="Sprint 1",
            end_time="2018-07-05",
            description="",
            begin_time="2018-1-31"
        )
        response = client.create_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

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```
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIterationV4Request{}
    request.ProjectId = "{project_id}"
    descriptionCreateIterationRequestV4:= ""
    request.Body = &model.CreateIterationRequestV4{
        Name: "Sprint 1",
        EndTime: "2018-07-05",
        Description: &descriptionCreateIterationRequestV4,
        BeginTime: "2018-1-31",
    }
    response, err := client.CreateIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
201	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5.3 Obtaining Sprints of a Specified Project

Function

This API is used to obtain sprints of a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/iterations

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Table 4-147 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-148 Query Parameters

Parameter	Mandatory	Type	Description
updated_time_interval	No	String	**Definition** Sprint update duration (start and end time). **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
include_deleted	No	Boolean	**Definition**: Whether the deleted sprints are included. **Constraints**: **false** (not included) **true** (included) **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-149 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-150 Response body parameters

Parameter	Type	Description
iterations	Array of **iterations** objects	**Definition**: Sprint information.
total	Integer	**Definition**: Total number of sprints. **Options**: N/A

Table 4-151 iterations

Parameter	Type	Description
begin_time	String	**Definition**: Sprint start time. **Options**: N/A
deleted	Boolean	**Definition**: Whether the sprint has been deleted. **Options**: **false**: not deleted **true**: deleted
description	String	**Definition**: Sprint description. **Options**: N/A
end_time	String	**Definition**: Sprint end time. **Options**: N/A
id	Integer	**Definition** Sprint ID. **Range** N/A
name	String	**Definition**: Sprint title. **Options**: N/A

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Parameter	Type	Description
status	String	**Definition**: Sprint status. **Value range**: **Value range**: **open**: default status of old data **0**: not started **1**: ongoing **2**: ended
updated_time	Long	**Definition**: Sprint update time. The value is a long integer timestamp. **Options**: N/A

Status code: 400

Table 4-152 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-153 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

- GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/iterations
- Querying the list of sprints deleted within the update time range

  GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/iterations?include_deleted=true&updated_time_interval=1760284800000,1760371199999

Example Responses

Status code: 200

```
{
  "total" : 1,
  "iterations" : [ {
    "description" : "description",
    "end_time" : "2019-10-17",
    "id" : 9725885,
    "name" : "Completion HTML",
    "begin_time" : "2019-10-10",
    "status" : "0",
    "updated_time" : 1640231944000,
    "deleted" : false
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;
```

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```
public class ListProjectIterationsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectIterationsV4Request request = new ListProjectIterationsV4Request();
        request.withProjectId("{project_id}");
        try {
            ListProjectIterationsV4Response response = client.listProjectIterationsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectIterationsV4Request()
        request.project_id = "{project_id}"
        response = client.list_project_iterations_v4(request)
        print(response)
```

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```
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectIterationsV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectIterationsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5.4 Deleting Sprints of a Project in Batches

Function

This API is used to delete sprints of a project in batches.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/iterations

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Table 4-154 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-155 Request body parameters

Parameter	Mandatory	Type	Description
iteration_ids	Yes	Array of integers	Iteration ID.

Response Parameters

Status code: 204

None

Status code: 400

Table 4-156 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-157 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iterations

{
  "iteration_ids" : [ 11302238, 11470756 ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```

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```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchDeleteIterationsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteIterationsV4Request request = new BatchDeleteIterationsV4Request();
        request.withProjectId("{project_id}");
        BatchDeleteIterationsV4RequestBody body = new BatchDeleteIterationsV4RequestBody();
        List<Integer> listbodyIterationIds = new ArrayList<>();
        listbodyIterationIds.add(11302238);
        listbodyIterationIds.add(11470756);
        body.withIterationIds(listbodyIterationIds);
        request.withBody(body);
        try {
            BatchDeleteIterationsV4Response response = client.batchDeleteIterationsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeleteIterationsV4Request()
        request.project_id = "{project_id}"
        listIterationIdsbody = [
            11302238,
            11470756
        ]
        request.body = BatchDeleteIterationsV4RequestBody(
            iteration_ids=listIterationIdsbody
        )
        response = client.batch_delete_iterations_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
```

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```
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchDeleteIterationsV4Request{}
    request.ProjectId = "{project_id}"
    var listIterationIdsbody = []int32{
        int32(11302238),
        int32(11470756),
    }
    request.Body = &model.BatchDeleteIterationsV4RequestBody{
        IterationIds: listIterationIdsbody,
    }
    response, err := client.BatchDeleteIterationsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5.5 Updating Sprints of a Scrum Project

Function

This API is used to update Scrum project sprints.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v4/projects/{project_id}/iterations/{iteration_id}

Table 4-158 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	String	**Definition** Sprint ID. You can obtain the sprint ID of a specific project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-159 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	**Definition** Start time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** N/A **Default Value** N/A
description	No	String	**Definition**: Description. **Constraints**: Maximum: 50,000 characters. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
end_time	Yes	String	**Definition** End time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** N/A **Default Value** N/A
name	Yes	String	**Definition**: Title. **Constraints**: N/A **Options**: N/A **Default value**: N/A
over_type	No	String	**Definition**: Work item processing upon the end of a sprint. **Constraints**: **over_type** is required when **status** is updated to **2**. **Value range**: **close** (All work items are closed.) **empty** (Work items that are not closed are placed in the block.) **Default value**: N/A

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Parameter	Mandatory	Type	Description
status	No	String	**Definition**: Sprint status. **Constraints**: The status cannot be changed across sprints. **Value range**: **0**: not started **1**: ongoing **2**: ended **Default value**: N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-160 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-161 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iterations/11225793

{
  "end_time" : "2018-07-05",
  "name" : "test_name2",
  "begin_time" : "2018-1-31",
  "description" : ""
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateIterationV4Solution {

    public static void main(String[] args) {
```

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```
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateIterationV4Request request = new UpdateIterationV4Request();
        request.withProjectId("{project_id}");
        request.withIterationId({iteration_id});
        UpdateIterationRequestV4 body = new UpdateIterationRequestV4();
        body.withName("test_name2");
        body.withEndTime("2018-07-05");
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        request.withBody(body);
        try {
            UpdateIterationV4Response response = client.updateIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
```

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```
    request = UpdateIterationV4Request()
    request.project_id = "{project_id}"
    request.iteration_id = {iteration_id}
    request.body = UpdateIterationRequestV4(
        name="test_name2",
        end_time="2018-07-05",
        description="",
        begin_time="2018-1-31"
    )
    response = client.update_iteration_v4(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateIterationV4Request{}
    request.ProjectId = "{project_id}"
    request.IterationId = int32({iteration_id})
    descriptionUpdateIterationRequestV4:= ""
    request.Body = &model.UpdateIterationRequestV4{
        Name: "test_name2",
        EndTime: "2018-07-05",
        Description: &descriptionUpdateIterationRequestV4,
```

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```
        BeginTime: "2018-1-31",
    }
    response, err := client.UpdateIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5.6 Deleting Sprints of a Project

Function

This API is used to delete project sprints.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/iterations/{iteration_id}

Table 4-162 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	Integer	**Definition** Sprint ID. You can obtain the sprint list of a project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

None

Response Parameters

Status code: 204

None

Status code: 400

Table 4-163 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-164 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11225793
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteIterationV4Request request = new DeleteIterationV4Request();
        request.withProjectId("{project_id}");
        request.withIterationId({iteration_id});
        try {
            DeleteIterationV4Response response = client.deleteIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteIterationV4Request()
        request.project_id = "{project_id}"
        request.iteration_id = {iteration_id}
        response = client.delete_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }
```

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```
    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteIterationV4Request{}
    request.ProjectId = "{project_id}"
    request.IterationId = int32({iteration_id})
    response, err := client.DeleteIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6 Work Items of a Scrum Project

4.6.1 Querying Work Item Workloads of a Scrum Project

Function

This API is used to query work item workloads.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v3/projects/{project_uuid}/issues/{issue_id}/work-hours

Table 4-165 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
issue_id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-166 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-167 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

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Table 4-168 result

Parameter	Type	Description
total	Integer	**Definition**: Total number of workload records. **Value range**: N/A
data	Array of **data** objects	**Definition**: Workload records of a work item.

Table 4-169 data

Parameter	Type	Description
id	String	**Definition**: Workload record ID. **Value range**: N/A
issue_id	Integer	**Definition**: Work item ID. **Value range**: N/A
user_id	String	**Definition**: User ID. **Value range**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
user_name	String	**Definition**: Username. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A

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Parameter	Type	Description
work_date	String	**Definition**: Workload date, in the format of yyyy/MM/dd, for example, **2025/07/25**. **Value range**: N/A
work_date_timestamp	String	**Definition**: Workload date, in timestamp format, for example, **1839340800000**. **Value range**: N/A
work_hours	String	**Definition**: Workloads (unit: person-hour). **Value range**: N/A

Example Requests

```
{endpoint}/v3/projects/381fcca9c056482d92da3e8b9da71db5/issues/69813204/work-hours
```

Example Responses

Status code: 200

```
{
  "result" : {
    "total" : 1,
    "data" : [ {
      "id" : "e7557fef692011f09df2fa163eed4f94",
      "issue_id" : 9184553,
      "user_id" : "xxxxxx",
      "user_num_id" : 1111,
      "user_name" : "xxxxxx",
      "nick_name" : "xxxxxx",
      "work_date" : "2025/07/25",
      "work_date_timestamp" : "1753372800000",
      "work_hours" : "1.0"
    } ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying work item workloads.

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Error Codes

See **Error Codes**.

4.6.2 Adding Work Item Workloads (V3)

Function

This API is used to add work item workloads.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/projects/{project_uuid}/issues/{issue_id}/work-hours

Table 4-170 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Request Parameters

Table 4-171 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-172 Request body parameters

Parameter	Mandatory	Type	Description
start_date_timestamp	No	Integer	**Definition**: Start time, in timestamp format, for example, **1839340800000**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
due_date_timestamp	No	Integer	**Definition**: End time, in timestamp format, for example, **1839340800000**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
start_date	No	String	**Definition**: Start time in the format of yyyy-MM-dd, for example, **2025-07-25**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
due_date	No	String	**Definition**: End time in the format of yyyy-MM-dd, for example, **2025-07-25**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
use_timestamp	No	Boolean	**Definition**: Whether to use the timestamp. **Constraints**: N/A **Value range**: **true**: yes **false**: no. **Default value**: N/A
work_hours	No	Integer	**Definition**: Workloads (unit: person-hour). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
include_weekends	No	Integer	**Definition**: Whether weekends are included. **Constraints**: N/A **Value range**: **0** (not included) **1** (included) **Default value**: N/A

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Parameter	Mandatory	Type	Description
type	No	Integer	**Definition**: Total workloads. **Constraints**: N/A **Value range**: **0** (eight hours totally) **1** (eight hours a day) **Default value**: N/A

Response Parameters

Status code: 200

Table 4-173 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-174 result

Parameter	Type	Description
list	Array of **list** objects	**Definition**: Workload record list.

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Table 4-175 list

Parameter	Type	Description
id	String	**Definition**: Workload record ID. **Value range**: N/A
issue_id	Integer	**Definition**: Work item ID. **Value range**: N/A
user_id	String	**Definition**: User ID. **Value range**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
user_name	String	**Definition**: Username. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
work_date	String	**Definition**: Work time in the format of yyyy/MM/dd, for example, **2025/07/25**. **Value range**: N/A
work_date_timestamp	String	**Definition**: Working time in timestamp format, for example, **1839340800000**. **Value range**: N/A

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Parameter	Type	Description
work_hours	String	**Definition**: Workloads (unit: person-hour).
region	String	**Definition**: Region.

Example Requests

```
/v3/projects/381fcca9c056482d92da3e8b9da71db5/issues/69813204/work-hours

{
  "start_date_timestamp" : 1753372800000,
  "due_date_timestamp" : 1753459199999,
  "start_date" : "2025-07-25",
  "due_date" : "2025-07-25",
  "use_timestamp" : true,
  "work_hours" : 1,
  "include_weekends" : 0,
  "type" : 0
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "list" : [ {
      "id" : "78c74003692311f0aa95fa163e60f658",
      "issue_id" : 69813204,
      "user_id" : "073a9e23188025b31f06c0104a74c376",
      "user_num_id" : 233087,
      "user_name" : "hw_008618814464665_01",
      "nick_name" : "asdf4",
      "work_date" : "2025/07/25",
      "work_date_timestamp" : "1753372800000",
      "work_hours" : "1.0",
      "region" : "example"
    } ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for adding work item workloads.

Error Codes

See **Error Codes**.

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4.6.3 Saving a Project Template

Function

This API is used to save a project template.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/project-template/template

Request Parameters

Table 4-176 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-177 Request body parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
name	No	String	**Definition**: Template name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
is_public	No	Integer	**Definition**: Whether to set the template as default. **Constraints**: N/A **Value range**: **0** (no) **1** (yes) **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-178 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: N/A

Table 4-179 result

Parameter	Type	Description
id	Integer	**Definition**: Template ID. **Value range**: N/A
name	String	**Definition**: Template name. **Value range**: N/A
type	String	**Definition**: Template type **Value range**: **Scrum**

Example Requests

Creating a template named **234548**

```
POST https://{endpoint}/v2/project-template/template?_=1753238263835

{
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "name" : "234548",
  "is_public" : 1
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "id" : 384846,
```

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```
    "name" : "234548",
    "type" : "scrum"
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for saving a project template.

Error Codes

See **Error Codes**.

4.6.4 Querying All Tags of a Work Item

Function

This API is used to query all tags of a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/issues/query-tags

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Table 4-180 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
name	No	String	**Definition**: Tag name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Request Parameters

Table 4-181 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-182 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-183 result

Parameter	Type	Description
tags	Array of **tags** objects	**Definition**: Tag.

Table 4-184 tags

Parameter	Type	Description
id	Integer	**Definition**: Tag ID. **Value range**: N/A
name	String	**Definition**: Tag name. **Value range**: N/A
encode_name	String	**Definition**: Tag code name. **Value range**: N/A
tag_count	Integer	**Definition**: Number of tags. **Value range**: N/A

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Example Requests

```
{endpoint}/v2/issues/query-tags?project_uuid=5192de5eb435430c8cd41c6ae6028848&_=1753183910332
```

Example Responses

Status code: 200

```
{
  "result" : {
    "tags" : [ {
      "id" : 88486,
      "name" : "2222",
      "encode_name" : "2222",
      "tag_count" : 1
    }, {
      "id" : 88487,
      "name" : "Special",
      "encode_name" : "&#x7279;&#x7279;",
      "tag_count" : 1
    } ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying all tags of a work item.

Error Codes

See **Error Codes**.

4.6.5 Checking Whether the Module Name Is Duplicate

Function

This API is used to check whether the module name is duplicate.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/module/module-name-validation

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Table 4-185 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
module_name	No	String	**Definition**: Module name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-186 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-187 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result object.
status	String	**Definition**: Returned status of a project. **Value range**: **success**: successful **error**: failed

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Table 4-188 result

Parameter	Type	Description
exist	Boolean	**Definition**: Whether the current module name exists. **Value range**: **true** and **false** **true**: The module name exists. **false**: The module name does not exist.

Example Requests

```
GET http://{endpoint}/v2/module/module-name-validation?module_name=%E9%98%BF
%E8%90%A8%E8%BE%BE
%E6%98%AF&project_id=5192de5eb435430c8cd41c6ae6028848&_=1753684289029
```

Example Responses

Status code: 200

```
{
  "result" : {
    "exist" : true
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for checking whether the module name is duplicate.

Error Codes

See **Error Codes**.

4.6.6 Querying the Total Number of Work Items Using Filter Criteria in Tree Mode (V4)

Function

This API is used to query the total number of work items using filter criteria in tree mode.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v4/{project_id}/scrum-issue-tree-count

Table 4-189 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-190 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-191 Request body parameters

Parameter	Mandatory	Type	Description
pageNo	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
pageSize	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
projectUUId	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
tracker_id	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Response Parameters

Status code: 200

Table 4-192 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.

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Parameter	Type	Description
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-193 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of work items in the current project. **Value range**: N/A

Example Requests

```
POST http://{endpoint}/v4/c15cc54e338d4506afd9bd8103071ff0/scrum-issue-tree-count

{
  "page_no" : "1",
  "page_size" : "15",
  "project_uuid" : "c15cc54e338d4506afd9bd8103071ff0",
  "tracker_id" : "7,2,3"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "total_count" : 25
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying the total number of work items using filter criteria in tree mode.

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Error Codes

See **Error Codes**.

4.6.7 Adding a Comment to a Work Item

Function

This API is used to add a comment to a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/issues/update-issue-notes

Request Parameters

Table 4-194 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-195 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
notes	Yes	String	**Definition**: Comment on a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
type	No	String	**Definition**: Type of the project to which the work item belongs. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A

Response Parameters

Status code: 200

Table 4-196 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned information.
status	String	**Definition**: Returned status.

Table 4-197 result

Parameter	Type	Description
issue	**IssueDetailResponseV2** object	**Definition**: Whether a custom status name is duplicate. **Value range**: **true** (duplicate) **false** (not duplicate)

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Table 4-198 IssueDetailResponseV2

Parameter	Type	Description
actual_work_hours	Double	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
assigned_cc_user	Array of **UserVO** objects	**Definition**: Cc recipient of the current work item.
assigned_to	**UserVO** object	**Definition**: Current owner of a work item.
start_date	String	**Definition**: Estimated start time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
created_on	String	**Definition**: Time when a work item is created, in timestamp format, for example, **1754374102000**. **Value range**: N/A
author	**UserVO** object	**Definition**: Work item creator.
custom_fields	Array of **CustomFieldV2** objects	**Definition**: Custom field of a work item.
custom_value_new	**IssueDetailCustomFieldV2** object	**Definition**: Custom field of a work item.
developer	**UserVO** object	**Definition**: Developer of a work item.
domain	**domain** object	**Definition**: Domain of a work item.
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A

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Parameter	Type	Description
end_time	String	**Definition**: Estimated end time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
expected_work_hours	Double	**Definition**: Estimated completion time of a work item (unit: person-hour). **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: N/A
project	**ProjectVO** object	**Definition**: Project to which the work item belongs. **Value range**: N/A
iteration	**iteration** object	**Definition**: Sprint to which the work item belongs.
story_point	**story_point** object	**Definition**: Story point information of a work item.
module	**module** object	**Definition**: Module of a work item.
subject	String	**Definition**: Title of a work item. **Value range**: N/A
parent_issue	**parent_issue** object	**Definition**: Parent work item of a work item.
priority	**priority** object	**Definition**: Work item priority.
severity	**severity** object	**Definition**: Work item severity.

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Parameter	Type	Description
status	**status** object	**Definition**: Current status of a work item.
release_dev	String	**Definition**: Release version of a work item. **Value range**: N/A
find_release_dev	String	**Definition**: Version where the bug was found (available only for bugs). **Value range**: N/A
env	**env** object	**Definition**: Environment where the bug was found (available only for bugs).
tracker	**tracker** object	**Definition**: Work item type.
updated_on	String	**Definition**: Last update time of a work item, in timestamp format, for example, **1754374102000**. **Value range**: N/A
closed_time	String	**Definition**: Time when a work item is closed, in timestamp format, for example, **1754374102000**. **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
accessories_list	Array of **IssueAccessoryV2** objects	**Definition**: List of work item attachments.

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Parameter	Type	Description
inner_text	String	**Definition**: Updated comments on a work item. **Value range**: N/A

Table 4-199 UserVO

Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A

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Table 4-200 CustomFieldV2

Parameter	Type	Description
name	String	**Definition**: Custom field. **Value range**: N/A
value	String	**Definition**: Value of a custom field. **Value range**: N/A
new_name	String	**Definition**: Name of a custom field after modification. **Value range**: N/A

Table 4-201 IssueDetailCustomFieldV2

Parameter	Type	Description
custom_field	String	**Definition**: Custom field. **Value range**: N/A
field_name	String	**Definition**: Custom field name. **Value range**: N/A
value	String	**Definition**: Values of custom properties, which are separated by commas (,). **Value range**: N/A

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Parameter	Type	Description
field_type	String	**Definition**: Custom field type. **Value range**: **textArea**: multi-line text **text**: single-line text **select**: drop-down list **number**: number **time_date**: date **checkbox**: check box **radio**: radio button
description	String	**Definition**: Description of a custom field. **Value range**: N/A

Table 4-202 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Value range**: N/A
name	String	**Definition**: Domain name. **Value range**: N/A

Table 4-203 ProjectVO

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
project_type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-204 iteration

Parameter	Type	Description
id	Integer	**Definition**: Sprint ID of a work item. **Value range**: N/A
name	String	**Definition**: Sprint name of a work item. **Value range**: N/A

Table 4-205 story_point

Parameter	Type	Description
id	Integer	**Definition**: Story point ID of a work item. **Value range**: N/A
name	String	**Definition**: Story point name of a work item. **Value range**: N/A

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Table 4-206 module

Parameter	Type	Description
id	Integer	**Definition**: Module ID of a work item. **Value range**: N/A
name	String	**Definition**: Module name of a work item. **Value range**: N/A

Table 4-207 parent_issue

Parameter	Type	Description
id	Integer	**Definition**: Parent work item ID of a work item. **Value range**: N/A
name	String	**Definition**: Parent work item name of a work item. **Value range**: N/A

Table 4-208 priority

Parameter	Type	Description
id	Integer	**Definition**: Priority ID of a work item. **Value range**: N/A
name	String	**Definition**: Priority name of a work item. **Value range**: **High**, **Medium**, and **Low**

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Table 4-209 severity

Parameter	Type	Description
id	Integer	**Definition**: Work item severity ID. **Value range**: N/A
name	String	**Definition**: Work item severity name. **Value range**: N/A

Table 4-210 status

Parameter	Type	Description
id	Integer	**Definition**: Current status ID of a work item. **Value range**: N/A
name	String	**Definition**: Current status of a work item. **Value range**: N/A

Table 4-211 env

Parameter	Type	Description
id	Integer	**Definition**: ID of the environment where the bug was found. **Value range**: N/A
name	String	**Definition**: Name of the environment where the bug was found. **Value range**: N/A

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Table 4-212 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID of a work item. **Value range**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Work item type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-213 IssueAccessoryV2

Parameter	Type	Description
attachment_id	Integer	**Definition**: Attachment ID. **Value range**: N/A
issue_id	Integer	**Definition**: Digital ID of a work item. **Value range**: N/A
creator_num_id	Integer	**Definition**: Digital ID of the attachment uploader. **Value range**: N/A
created_date	String	**Definition**: Attachment creation time, for example, **2025-08-04 19:43:46**. **Value range**: N/A

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Parameter	Type	Description
file_name	String	**Definition**: Attachment name. **Value range**: N/A
container_type	String	**Definition**: Attachment type. **Value range**: **Scrum**
disk_file_name	String	**Definition**: Actual name of the attachment on the server. **Value range**: N/A
digest	String	**Definition**: Attachment source. **Value range**: **1** (local document uploaded for a work item) and **2** (associated document)
disk_directory	String	**Definition**: Path of the attachment on the server. **Value range**: N/A
creator_id	String	**Definition**: UUID of the attachment uploader. **Value range**: N/A

Example Requests

```
POST http://{endpoint}/v2/issues/update-issue-notes

{
  "id" : 9206017,
  "notes" : "TEST",
  "project_uuid" : "a8ac165097ff4e42bcfb234dd27d30a6",
  "type" : "scrum"
}
```

Example Responses

Status code: 200

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```
{
  "result" : {
    "issue" : {
      "id" : 2884419,
      "subject" : "TEST",
      "author" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : 1111,
        "assigned_nick_name" : "xxxxxx"
      },
      "created_on" : "1754463933000",
      "updated_on" : "1754463933000",
      "done_ratio" : 0,
      "description" : "<p><strong>TEST</strong></p>",
      "expected_work_hours" : 0,
      "actual_work_hours" : 0,
      "release_dev" : "",
      "project" : {
        "identifier" : "310eed4d6160446cb294a8bacfd46e7e",
        "name" : "APIFunction202507Cukr9K",
        "id" : 6345282
      },
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "status" : {
        "name" : "New",
        "id" : 1
      },
      "assigned_to" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : 1111,
        "assigned_nick_name" : "xxxxxx"
      },
      "developer" : { },
      "priority" : {
        "name" : "Medium",
        "id" : 2
      },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
      "module" : { },
      "story_point" : {
        "id" : 3,
        "name" : "1"
      },
      "assigned_cc_user" : [ ],
      "inner_text" : "TEST1"
    }
  },
  "status" : "success"
}
```


SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateScrumIssueNotesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateScrumIssueNotesRequest request = new UpdateScrumIssueNotesRequest();
        AddCommentsRequest body = new AddCommentsRequest();
        body.withType("scrum");
        body.withNotes("TEST");
        body.withId("9206017");
        request.withBody(body);
        try {
            UpdateScrumIssueNotesResponse response = client.updateScrumIssueNotes(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateScrumIssueNotesRequest()
        request.body = AddCommentsRequest(
            type="scrum",
            notes="TEST",
            id="9206017"
        )
        response = client.update_scrum_issue_notes(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }
```

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```
    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateScrumIssueNotesRequest{}
    typeAddCommentsRequest:= "scrum"
    request.Body = &model.AddCommentsRequest{
        Type: &typeAddCommentsRequest,
        Notes: "TEST",
        Id: "9206017",
    }
    response, err := client.UpdateScrumIssueNotes(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to a successful request for adding a comment to a work item.

Error Codes

See **Error Codes**.

4.6.8 Querying Module Settings

Function

This API is used to query module settings.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/module/modules

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Table 4-214 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
search	No	String	**Definition**: Query index set for the module. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-215 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-216 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: returned result.
status	String	**Definition**: Returned status. **Value range**: N/A

Table 4-217 result

Parameter	Type	Description
total_count	Integer	**Definition**: Number of modules. **Value range:** N/A

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Parameter	Type	Description
modules	Array of **modules** objects	**Definition**: Modules.

Table 4-218 modules

Parameter	Type	Description
id	Integer	**Definition**: Module ID in module management. **Value range**: N/A
name	String	**Definition**: Name of a module in module management. **Value range**: N/A
owner	Object	**Definition**: Module owner. **Value range**: N/A
description	String	**Definition**: Module description. **Value range**: N/A
project	**project** object	**Definition**: Current project information.
deepth	Integer	**Definition**: Parent-child relationship of a module. **Value range**: N/A
path	String	**Definition**: Path of a module. **Value range**: N/A

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Parameter	Type	Description
path_name	String	**Definition**: Path name of a module. **Value range**: N/A
is_match	Boolean	**Definition**: Check whether the module information is found. **Value range**: **true** (found) **false** (not found)
child	Array of strings	**Definition**: Sub-module list of a module. **Value range**: N/A
is_parent	Boolean	**Definition**: Whether there is a sub-module. **Value range**: **0** (no sub-modules) **1** (with sub-modules)

Table 4-219 project

Parameter	Type	Description
id	Integer	**Definition**: ID of the current project. **Value range**: N/A

Example Requests

```
{endpoint}/v2/module/modules?
project_id=5192de5eb435430c8cd41c6ae6028848&limit=1&offset=10&search=&_=1753185098033
```

Example Responses

Status code: 200

```
{
  "result" : {
    "total_count" : 5,
    "modules" : [ {
```

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```
  "id" : 885859,
  "name" : "Promotion management",
  "owner" : {
    "id" : 4091,
    "name" : "devcloud_devcloud_s00404480_01",
    "identifier" : "a360371833bf4c558f796fd707b44daf",
    "nick_name" : "Sam 1"
  },
  "description" : "Promotion management",
  "project" : {
    "id" : 35138974
  },
  "deepth" : 1,
  "path" : "885859",
  "path_name" : "Promotion management",
  "is_match" : true,
  "child" : [ ],
  "is_parent" : false
}, {
  "id" : 885858,
  "name" : "Accessory management",
  "owner" : {
    "id" : 4091,
    "name" : "devcloud_devcloud_s00404480_01",
    "identifier" : "a360371833bf4c558f796fd707b44daf",
    "nick_name" : "Sam 1"
  },
  "description" : "Accessory management",
  "project" : {
    "id" : 35138974
  },
  "deepth" : 1,
  "path" : "885858",
  "path_name" : "Accessory management",
  "is_match" : true,
  "child" : [ ],
  "is_parent" : false
}, {
  "id" : 885857,
  "name" : "Order management",
  "owner" : {
    "id" : 4091,
    "name" : "devcloud_devcloud_s00404480_01",
    "identifier" : "a360371833bf4c558f796fd707b44daf",
    "nick_name" : "Sam 1"
  },
  "description" : "Order management",
  "project" : {
    "id" : 35138974
  },
  "deepth" : 1,
  "path" : "885857",
  "path_name" : "Order management",
  "is_match" : true,
  "child" : [ ],
  "is_parent" : false
}, {
  "id" : 885856,
  "name" : "Membership management",
  "owner" : {
    "id" : 4091,
    "name" : "devcloud_devcloud_s00404480_01",
    "identifier" : "a360371833bf4c558f796fd707b44daf",
    "nick_name" : "Sam 1"
  },
  "description" : "Membership management",
  "project" : {
    "id" : 35138974
  },
```


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```
    "deepth" : 1,
    "path" : "885856",
    "path_name" : "Membership management",
    "is_match" : true,
    "child" : [ ],
    "is_parent" : false
   }, {
    "id" : 885855,
    "name" : "Store network",
    "owner" : {
     "id" : 4091,
     "name" : "devcloud_devcloud_s00404480_01",
     "identifier" : "a360371833bf4c558f796fd707b44daf",
     "nick_name" : "Sam 1"
    },
    "description" : "Store network",
    "project" : {
     "id" : 35138974
    },
    "deepth" : 1,
    "path" : "885855",
    "path_name" : "Store network",
    "is_match" : true,
    "child" : [ ],
    "is_parent" : false
   } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying model settings.

Error Codes

See **Error Codes**.

4.6.9 Exporting Work Items (V2)

Function

This API is used to export work items (V2).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/issues/export-reqs-new

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Request Parameters

Table 4-220 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-221 Request body parameters

Parameter	Mandatory	Type	Description
projectUUId	No	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints** A string of 32 characters consisting of digits and letters. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
fields	No	String	**Definition** Column fields to be exported. Use commas (,) to separate values. **Constraints** N/A **Range** • **id**: work item ID • **subject**: title • **closed_on**: completion time • **status**: status • **assigned_to**: handler • **start_date**: estimated start date • **due_date**: estimated end date • **priority**: priority • **created_on**: creation time • **actual_work_hours**: actual workloads • **done_ratio**: completion rate • **tracker**: work item type • **module**: module • **order**: priority sequence • **severity**: severity • **parent_issue**: parent work item • **domain**: domain • **expected_work_hours**: estimated work hours • **fixed_version**: iteration • **env**: discovery environment • **story_point**: story point • **tag_id**: tag ID. • **description**: description • **author**: creator • **assigned_cc**: CC recipient • **developer**: developer • **updated_on**: update time

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Parameter	Mandatory	Type	Description
			Default Value N/A
export_child	No	Boolean	**Definition** Whether to export child work items. **Constraints** N/A **Range** • **true**: Export child work items. • **false**: Do not export child work items. **Default Value** N/A
type	No	String	**Definition** Structure type of the exported work item. **Constraints** N/A **Range** • **tree** • **list** **Default Value** N/A
time_zone	No	Integer	**Definition**: Time zone, for example, **8**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
export_all	No	Boolean	**Definition** Whether to export all fields. **Constraints** N/A **Range** • **true**: Export all fields. • **false**: Export selected fields. **Default Value** N/A

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Parameter	Mandatory	Type	Description
tracker_id	No	String	**Definition** Work item type ID. **Constraints** N/A **Range** • **2**: task • **3**: bug • **5**: epic • **6**: feature • **7**: story **Default Value** N/A

Response Parameters

Status code: 200

Table 4-222 Response body parameters

Parameter	Type	Description
-	File	**Definition**: File. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v2/issues/export-reqs-new?_=1753102328713

{
  "projectUUId" : "d00fd603ddf64115939e7d3609d6cb05",
  "fields" :
"id,subject,closed_on,status,assigned_to,start_date,due_date,priority,created_on,actual_work_hours,done_ratio
,tracker,module,order,severity,parent_issue,domain,releaseDev,expected_work_hours,fixed_version,findRelease
Dev,env,story_point,tag_id,description,author,assigned_cc,developer,updated_on",
  "export_child" : "false",
  "type" : "tree",
  "time_zone" : 8,
  "page_no" : 1,
  "page_size" : 2000,
  "export_all" : "false",
  "tracker_id" : "5,6,7,2,3"
}
```

Example Responses

None

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Status Codes

Status Code	Description
200	Response to a successful request for exporting work items.

Error Codes

See **Error Codes**.

4.6.10 Adding a Custom Work Item Module

Function

This API is used to add a custom work item module.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/module/modules

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Request Parameters

Table 4-223 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-224 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Description field that provides more details about the project or task. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
name	No	String	**Definition**: Name of a work item module. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
owner	No	String	**Definition**: Digital ID of the module owner, which is obtained by calling the **Obtaining the Member List of a Specified Project** API. The value of **user_num_id** in the response message body is the ID of the module owner. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
parent_num_id	No	String	**Definition**: Unique ID of a parent task. The value is obtained by calling the **Querying the Module Settings** API. The value of **id** in **modules** in the response message body is the module ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-225 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Result status. **Value range**: N/A

Table 4-226 result

Parameter	Type	Description
module	**module** object	**Definition**: Detailed information about a module.

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Table 4-227 module

Parameter	Type	Description
description	String	**Definition**: Module description. **Value range**: N/A
id	Integer	**Definition**: Module ID. **Value range**: N/A
name	String	**Definition**: Module name. **Value range**: N/A
owner	**owner** object	**Definition**: Module owner.
project	**project** object	**Definition**: Project information.
path	String	**Definition**: Path of a module. **Value range**: N/A
path_name	String	**Definition**: Name of a module path. **Value range**: N/A

Table 4-228 owner

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of the owner. **Value range**: N/A
name	String	**Definition**: Username of the owner. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: Owner ID. **Value range**: N/A
nick_name	String	**Definition**: Owner alias. **Value range**: N/A

Table 4-229 project

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
identifier	String	**Definition**: Unique ID of a project. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: N/A

Example Requests

```
POST http://{endpoint}/v2/module/modules?_=1753684289689

{
  "description" : "",
  "name" : "Asada",
  "owner" : "4091",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "parent_num_id" : ""
}
```

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Example Responses

Status code: 200


```
{
  "result" : {
    "module" : {
      "description" : "",
      "id" : 886637,
      "name" : "Asada",
      "owner" : {
        "id" : 4091,
        "name" : "devcloud_devcloud_s00404480_01",
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "nick_name" : "Sam 1"
      },
      "project" : {
        "id" : 35138974,
        "identifier" : "5192de5eb435430c8cd41c6ae6028848",
        "name" : "DevOps Full-Process Sample Project XXXX",
        "type" : "scrum"
      },
      "path" : "886637",
      "path_name" : "Asada"
    }
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for adding a custom work item template.

Error Codes

See **Error Codes**.

4.6.11 Querying the Child Work Item List of a Scrum Project

Function

This API is used to query the child work item list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/issues/child-issue-list

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Request Parameters

Table 4-230 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-231 Request body parameters

Parameter	Mandatory	Type	Description
parent_id	No	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_uuid	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
subject	No	String	**Definition**: Work item title, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **name** field in the response message body is the work item title. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
query_type	No	String	**Definition**: Query mode of a transaction. **Constraints**: N/A **Value range**: **basic** (basic query) **custom** (temporary filtering) **query** (filter) **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-232 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Response result.
status	String	**Definition**: Response status.

Table 4-233 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of child work items. **Value range**: N/A

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Parameter	Type	Description
issues	Array of **issues** objects	**Definition**: Work item list information. **Value range**: N/A

Table 4-234 issues

Parameter	Type	Description
updated_on	String	**Definition**: Work item update time (in timestamp format, for example, **1839340800000**). **Value range**: N/A
subject	String	**Description**: Work item title. **Value range**: N/A
parent_issue	**ParentIssue** object	**Definition**: Parent work item. **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
project	**Project** object	**Definition**: Project information. **Value range**: N/A
done_ratio	Integer	**Definition**: Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Value range**: Minimum value: **0**. Maximum value: **100**.

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Parameter	Type	Description
find_release_dev	String	**Definition**: Released version where the bug was found. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: **0** to **9,999,999,999**
release_dev	String	**Definition**: Release version of a work item. **Value range**: N/A
customValueNew	Object	**Definition**: Custom field value of a work item. **Value range**: N/A
order	**IssueOrderV4** object	**Definition**: Position of a work item in the list.
assigned_to	**IssueAuthorVO** object	**Definition**: Handler.
status_attribute	**StateAttribute** object	**Definition**: Status attribute. The value can be **To do**, **Doing**, or **Done**. **Value range**: N/A
severity	**Severity** object	**Definition**: Work item severity. **Value range**: N/A

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Parameter	Type	Description
is_parent	Boolean	**Definition**: Whether the current work item is a parent work item. **Value range**: N/A
author	**IssueAuthorVO** object	**Definition**: Work item submitter. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads for completion (unit: person-hour). **Value range**: Minimum value: **0**.
priority	**Priority** object	**Definition**: Work item priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads (unit: person-hour).
is_watcher	Boolean	**Definition**: Whether the user has favorited the work item. **Value range**: **true**: The user has favorited the work item. **true**: The user has not favorited the work item.
deleted	Boolean	**Definition**: Whether the work item has been deleted. **Value range**: **true**: deleted **false**: not deleted

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Parameter	Type	Description
fixed_version	Object	**Definition**: Version in which a work item is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Whether a work item has been archived. **Value range**: **true**: archived **false**: not archived
created_on	String	**Definition**: Time when a work item is created (in timestamp format, for example, **1839340800000**). **Value range**: N/A
domain	Object	**Definition**: Domain information. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Person who closes a work item. **Value range**: N/A
parent_issue_id	Integer	**Definition**: Parent work item ID. **Value range**: N/A
position	String	**Definition**: Sorting value of a work item on the page. **Value range**: N/A

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Parameter	Type	Description
closed_flag	Integer	**Definition**: Whether the work item is closed. **Value range**: **0**: not closed **1**: closed
assigned_cc_user	Array of strings	**Definition**: Cc recipient of a work item. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-235 ParentIssue

Parameter	Type	Description
subject	String	**Definition**: Parent work item name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of the parent work item. **Value range**: Minimum value: **0**.

Table 4-236 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-237 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

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Table 4-238 IssueOrderV4

Parameter	Type	Description
id	Integer	**Definition**: Sequence ID of a work item in the list. **Value range**: N/A
name	String	**Definition**: Sequence of a work item in the list. **Value range**: N/A

Table 4-239 StateAttribute

Parameter	Type	Description
id	String	**Definition**: Attribute ID of the work item status. **Value range**: N/A
name	String	**Definition**: Name of a work item status. **Value range**: To Do Doing Done

Table 4-240 Severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational

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Parameter	Type	Description
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: information

Table 4-241 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-242 Priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

Table 4-243 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected

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Parameter	Type	Description
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

Example Requests

```
POST http://{endpoint}/v2/issues/child-issue-list

{
  "parent_id" : 69783229,
  "project_uuid" : "d00fd603ddf64115939e7d3609d6cb05",
  "subject" : "",
  "query_type" : "basic",
  "page_no" : "1",
  "page_size" : "10"
}
```

Example Responses

Status code: 200


```
{
  "result" : {
    "total_count" : 1,
    "issues" : [ {
      "updated_on" : "1753346232000",
      "subject" : "Task - Tag filtering 01",
      "parent_issue" : {
        "subject" : "Story - Tag filtering 01",
        "id" : 9184452
      },
      "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br /></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br /></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
      "project" : {
        "identifier" : "873ca7d1592f4921b4644dc16a1176f5",
        "name" : "Scrum-tree filter by tag",
        "id" : 35165288,
        "type" : "scrum"
      },
      "done_ratio" : 0,
      "tracker" : {
        "name" : "Task",
        "id" : 2
      },
      "id" : 9184453,
      "customValueNew" : { },
      "order" : {
        "name" : 1,
        "id" : 1
```


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```
    },
    "assigned_to" : {
      "first_name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "identifier" : "a360371833bf4c558f796fd707b44daf",
      "image_id" : "photo01.png",
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091
    },
    "status_attribute" : {
      "name" : "To Do",
      "id" : 35160238
    },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "first_name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "identifier" : "a360371833bf4c558f796fd707b44daf",
      "image_id" : "photo01.png",
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091
    },
    "module" : { },
    "expected_work_hours" : 0,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1753346232000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "parent_issue_id" : 9184452,
    "position" : "9184453.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "New",
      "id" : 1
    }
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying the child work item list.

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Error Codes

See **Error Codes**.

4.6.12 Checking Whether a Template Can Be Saved

Function

This API is used to check whether a template can be saved.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/project-template/name-validation

Table 4-244 Query Parameters

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Template name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-245 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-246 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: N/A

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Table 4-247 result

Parameter	Type	Description
exist	Boolean	**Definition**: Whether the current module name exists. **Value range**: N/A

Example Requests

Saving as a template

```
{endpoint}/v2/project-template/name-validation?name=1234&_=1753237057613
```

Example Responses

Status code: 200

```
{
  "result" : {
    "exist" : false
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for checking whether a template can be saved.

Error Codes

See **Error Codes**.

4.6.13 Querying Transaction Details (V2)

Function

This API is used to query transaction details (V2).

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/issues/show

Table 4-248 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
include	Yes	String	**Definition**: Parent and child types of the work items to be queried. **Constraints**: N/A **Value range**: **children** and **parent** **Default value**: N/A

Request Parameters

Table 4-249 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-250 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned information.

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Parameter	Type	Description
status	String	**Definition**: Returned status.

Table 4-251 result

Parameter	Type	Description
issue	**IssueDetailResponseV2** object	**Definition**: Whether a custom status name is duplicate. **Value range**: **true** (duplicate) **false** (not duplicate)

Table 4-252 IssueDetailResponseV2

Parameter	Type	Description
actual_work_hours	Double	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
assigned_cc_user	Array of **UserVO** objects	**Definition**: Cc recipient of the current work item.
assigned_to	**UserVO** object	**Definition**: Current owner of a work item.
start_date	String	**Definition**: Estimated start time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
created_on	String	**Definition**: Time when a work item is created, in timestamp format, for example, **1754374102000**. **Value range**: N/A

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Parameter	Type	Description
author	**UserVO** object	**Definition**: Work item creator.
custom_fields	Array of **CustomFieldV2** objects	**Definition**: Custom field of a work item.
custom_value_new	**IssueDetailCustomFieldV2** object	**Definition**: Custom field of a work item.
developer	**UserVO** object	**Definition**: Developer of a work item.
domain	**domain** object	**Definition**: Domain of a work item.
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
end_time	String	**Definition**: Estimated end time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
expected_work_hours	Double	**Definition**: Estimated completion time of a work item (unit: person-hour). **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: N/A
project	**ProjectVO** object	**Definition**: Project to which the work item belongs. **Value range**: N/A
iteration	**iteration** object	**Definition**: Sprint to which the work item belongs.

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Parameter	Type	Description
story_point	**story_point** object	**Definition**: Story point information of a work item.
module	**module** object	**Definition**: Module of a work item.
subject	String	**Definition**: Title of a work item. **Value range**: N/A
parent_issue	**parent_issue** object	**Definition**: Parent work item of a work item.
priority	**priority** object	**Definition**: Work item priority.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Current status of a work item.
release_dev	String	**Definition**: Release version of a work item. **Value range**: N/A
find_release_dev	String	**Definition**: Version where the bug was found (available only for bugs). **Value range**: N/A
env	**env** object	**Definition**: Environment where the bug was found (available only for bugs).
tracker	**tracker** object	**Definition**: Work item type.

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Parameter	Type	Description
updated_on	String	**Definition**: Last update time of a work item, in timestamp format, for example, **1754374102000**. **Value range**: N/A
closed_time	String	**Definition**: Time when a work item is closed, in timestamp format, for example, **1754374102000**. **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
accessories_list	Array of **IssueAccessoryV2** objects	**Definition**: List of work item attachments.
inner_text	String	**Definition**: Updated comments on a work item. **Value range**: N/A

Table 4-253 UserVO

Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A

Table 4-254 CustomFieldV2

Parameter	Type	Description
name	String	**Definition**: Custom field. **Value range**: N/A
value	String	**Definition**: Value of a custom field. **Value range**: N/A
new_name	String	**Definition**: Name of a custom field after modification. **Value range**: N/A

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Table 4-255 IssueDetailCustomFieldV2

Parameter	Type	Description
custom_field	String	**Definition**: Custom field. **Value range**: N/A
field_name	String	**Definition**: Custom field name. **Value range**: N/A
value	String	**Definition**: Values of custom properties, which are separated by commas (,). **Value range**: N/A
field_type	String	**Definition**: Custom field type. **Value range**: **textArea**: multi-line text **text**: single-line text **select**: drop-down list **number**: number **time_date**: date **checkbox**: check box **radio**: radio button
description	String	**Definition**: Description of a custom field. **Value range**: N/A

Table 4-256 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Domain name. **Value range**: N/A

Table 4-257 ProjectVO

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
project_type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-258 iteration

Parameter	Type	Description
id	Integer	**Definition**: Sprint ID of a work item. **Value range**: N/A
name	String	**Definition**: Sprint name of a work item. **Value range**: N/A

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Table 4-259 story_point

Parameter	Type	Description
id	Integer	**Definition**: Story point ID of a work item. **Value range**: N/A
name	String	**Definition**: Story point name of a work item. **Value range**: N/A

Table 4-260 module

Parameter	Type	Description
id	Integer	**Definition**: Module ID of a work item. **Value range**: N/A
name	String	**Definition**: Module name of a work item. **Value range**: N/A

Table 4-261 parent_issue

Parameter	Type	Description
id	Integer	**Definition**: Parent work item ID of a work item. **Value range**: N/A
name	String	**Definition**: Parent work item name of a work item. **Value range**: N/A

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Table 4-262 priority

Parameter	Type	Description
id	Integer	**Definition**: Priority ID of a work item. **Value range**: N/A
name	String	**Definition**: Priority name of a work item. **Value range**: **High**, **Medium**, and **Low**

Table 4-263 severity

Parameter	Type	Description
id	Integer	**Definition**: Work item severity ID. **Value range**: N/A
name	String	**Definition**: Work item severity name. **Value range**: N/A

Table 4-264 status

Parameter	Type	Description
id	Integer	**Definition**: Current status ID of a work item. **Value range**: N/A
name	String	**Definition**: Current status of a work item. **Value range**: N/A

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Table 4-265 env

Parameter	Type	Description
id	Integer	**Definition**: ID of the environment where the bug was found. **Value range**: N/A
name	String	**Definition**: Name of the environment where the bug was found. **Value range**: N/A

Table 4-266 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID of a work item. **Value range**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Work item type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-267 IssueAccessoryV2

Parameter	Type	Description
attachment_id	Integer	**Definition**: Attachment ID. **Value range**: N/A

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Parameter	Type	Description
issue_id	Integer	**Definition**: Digital ID of a work item. **Value range**: N/A
creator_num_id	Integer	**Definition**: Digital ID of the attachment uploader. **Value range**: N/A
created_date	String	**Definition**: Attachment creation time, for example, **2025-08-04 19:43:46**. **Value range**: N/A
file_name	String	**Definition**: Attachment name. **Value range**: N/A
container_type	String	**Definition**: Attachment type. **Value range**: **Scrum**
disk_file_name	String	**Definition**: Actual name of the attachment on the server. **Value range**: N/A
digest	String	**Definition**: Attachment source. **Value range**: **1** (local document uploaded for a work item) and **2** (associated document)
disk_directory	String	**Definition**: Path of the attachment on the server. **Value range**: N/A

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Parameter	Type	Description
creator_id	String	**Definition**: UUID of the attachment uploader. **Value range**: N/A

Example Requests

```
GET https://{engdpoint}/v2/issues/show?
project_uuId=d00fd603ddf64115939e7d3609d6cb05&issue_id=69792725&include=children,parent&_=1753156521643
```

Example Responses

Status code: 200

```
{
  "result" : {
    "issue" : {
      "id" : 2884248,
      "subject" : "33333",
      "author" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : 15533,
        "assigned_nick_name" : "xxxxxx"
      },
      "created_on" : "1754307805000",
      "updated_on" : "1754378971000",
      "start_date" : "1754323200000",
      "done_ratio" : 0,
      "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something>&amp;nbsp;</p>",
      "expected_work_hours" : 0,
      "release_dev" : "",
      "project" : {
        "identifier" : "daba98e34f9348a48939b54ceb39ff5c",
        "name" : "ProjectTestCaseuDmT",
        "project_type" : "scrum",
        "id" : 6349386
      },
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "status" : {
        "name" : "New",
        "id" : 1
      },
      "priority" : {
        "name" : "Medium",
        "id" : 2
      },
      "assigned_to" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
```

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```
      "id" : 15533,
      "assigned_nick_name" : "xxxxxx"
    },
    "developer" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "domain" : { },
    "module" : { },
    "story_point" : {
      "id" : 3,
      "name" : "1"
    },
    "find_release_dev" : "",
    "assigned_cc_user" : [ ],
    "accessories_list" : [ {
      "attachment_id" : 26262,
      "issue_id" : 2884248,
      "container_type" : "Issue",
      "file_name" : "ProjectManPortal-CDN-urimapping.json",
      "disk_file_name" : "8b0eb921-1737-4429-afd9-bc09b54b5621.json",
      "digest" : "1",
      "creator_num_id" : 15533,
      "created_date" : "2025-08-04 19:43:46",
      "disk_directory" : "/daba98e34f9348a48939b54ceb39ff5c/projectMan/2884248/8b0eb921-1737-4429-
afd9-bc09b54b5621.json",
      "creator_id" : "c2d89e38a64a466f8f945f595df4402d"
    } ],
    "custom_value_new" : { },
    "custom_fields" : [ ]
  }
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying transaction details.

Error Codes

See **Error Codes**.

4.6.14 Obtaining Comments on a Work Item (V2)

Function

This API is used to obtain comments on a work item (V2).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v2/issues/get-comments

Table 4-268 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**

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Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
type	Yes	String	**Definition**: Project type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-269 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-270 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Result of querying comments on a work item.
status	String	**Definition**: Returned status.

Table 4-271 result

Parameter	Type	Description
comments	Array of **comments** objects	**Definition**: List of comments on a work item.

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Parameter	Type	Description
journals_total	Integer	**Definition**: Total number of comments. **Value range**: N/A

Table 4-272 comments

Parameter	Type	Description
id	Integer	**Definition**: Comment ID. **Value range**: N/A
notes	String	**Definition**: Comment on a work item. **Value range**: N/A
created_on	String	**Definition**: Timestamp when a comment is created, for example, **1754361449000**. **Value range**: N/A
user	**IssueUserVO** object	**Definition**: Information about the user who posts a comment. **Value range**: N/A

Table 4-273 IssueUserVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/issues/get-comments?
issue_id=9182484&project_uuId=af2d9ea776204a4395e238dd156b2ca9&limit=10&offset=0&type=scrum&_=
1753348089805
```

Example Responses

Status code: 200

```
{
  "result" : {
    "comments" : [ {
      "id" : 11260742,
      "notes" : "<p>In this time</p>",
      "created_on" : "1753348089000",
      "user" : {
        "id" : 1111,
        "name" : "xxxxxx",
        "first_name" : "xxxxxx",
        "nick_name" : "xxxxxx",
        "image_id" : "photo01.png",
        "identifier" : "xxxxxx"
      }
    }, {
      "id" : 11260741,
```

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```
    "notes" : "<p>Safety</p>",
    "created_on" : "1753348085000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "nick_name" : "xxxxxx",
      "image_id" : "photo01.png",
      "identifier" : "xxxxxx"
    }
   } ],
   "journals_total" : 2
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for obtaining comments on a work item.

Error Codes

See **Error Codes**.

4.6.15 Deleting Work Items in Batches

Function

This API is used to delete work items in batches.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/workitem/batch-delete

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Request Parameters

Table 4-274 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-275 Request body parameters

Parameter	Mandatory	Type	Description
-	No	String	Request body for deleting work items in batches.
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_ids	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-276 Response body parameters

Parameter	Type	Description
-	String	Response body for deleting work items in batches.
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition** Response status. **Range** **success**: The deletion is successful. **error**: The deletion failed.

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Table 4-277 result

Parameter	Type	Description
delete_issue	**delete_issue** object	**Definition**: Deleted work item. **Value range**: N/A

Table 4-278 delete_issue

Parameter	Type	Description
del_issue_id	Array of integers	**Definition**: ID of the work item to be deleted. **Value range**: N/A
del_issue	Array of **del_issue** objects	**Definition**: Details about the deleted work item. **Value range**: N/A

Table 4-279 del_issue

Parameter	Type	Description
id	Integer	**Definition**: Work item ID. **Value range**: N/A
tracker_id	Integer	**Definition**: Work item type. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

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Parameter	Type	Description
subject	String	**Definition**: Work item name. **Value range**: N/A
status_id	Integer	**Definition**: Work item status ID. **Value range**: N/A
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads (unit: person-hour). **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads (unit: person-hour). **Value range**: N/A
deleted	Boolean	**Definition**: Whether the deletion is complete. **Value range**: **0** (not deleted) **1** (deleted)
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **0** (not archived) **1** (archived)

Example Requests

Request information

```
POST https://{endpoint}/v2/workitem/batch-delete

{
```

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```
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "issue_ids" : "9190894,9179013"
}
```

Example Responses

Status code: 200

```
{
   "result": {
      "delete_issue": {
         "del_issue_id": [
            9190894
         ],
         "del_issue": [
            {
               "id": 9190894,
               "tracker_id": 7,
               "subject": "123",
               "status_id": 1,
               "done_ratio": 0,
               "expected_work_hours": 0.0,
               "actual_work_hours": 0.0,
               "deleted": false,
               "is_archived": false
            }
         ]
      },
   },
   "status": "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for deleting work items in batches.

Error Codes

See **Error Codes**.

4.6.16 Creating a Work Item (During Attachment Upload)

Function

This API is used to create a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

POST /v3/file/issue-create

Request Parameters

Table 4-280 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-281 Request body parameters

Parameter	Mandatory	Type	Description
issue_call_back_param	No	**issue_call_back_param** object	**Definition**: Request parameter of a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
type	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A

Table 4-282 issue_call_back_param

Parameter	Mandatory	Type	Description
status_id	No	Integer	**Definition** Status ID. **Constraints** N/A **Range** **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected **Default Value** N/A
subject	No	String	**Definition**: Title of a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Work item description. **Constraints**: N/A **Value range**: N/A **Default value**: N/A **Value range**: N/A
start_date	No	String	**Definition**: Start date of the work item, in timestamp format, for example, **1839340800000**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
order	No	Integer	**Definition**: Sorting of work items. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
priority_id	No	Integer	**Definition**: Priority ID. **Constraints**: N/A **Value range**: **1**: low **2**: medium **3**: high **Default value**: N/A

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Parameter	Mandatory	Type	Description
severity_id	No	Integer	**Definition**: Severity ID. **Constraints**: N/A **Value range**: **10**: critical **11**: major **12**: minor **13**: trivial **Default value**: N/A
release_dev	No	String	**Definition**: Release version of a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
expected_work_hours	No	String	**Definition**: Estimated workloads of a work item (unit: person-hour). **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
story_point_id	No	Integer	**Definition**: Story point ID of a work item. **Constraints**: N/A **Value range**: **1**: 0 **2**: 1/2 **3**: 1 **4**: 2 **5**: 3 **6**: 5 **7**: 8 **8**: 13 **9**: 21 **10**: 40 **11**: 80 **12**: 100 **Default value**: N/A
due_date	No	String	**Definition**: End time of a work item, in timestamp format, for example, **1839340800000**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
assigned_cc	No	String	**Definition**: Cc recipient. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
assigned_to_id	No	Integer	**Definition**: Digital ID of the module owner, which is obtained by calling the **Obtaining the Member List of a Specified Project** API. The value of **user_num_id** in the response message body is the ID of the module owner. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_uuid	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
tracker_id	No	Integer	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Response Parameters

Status code: 200

Table 4-283 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A

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Parameter	Type	Description
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-284 result

Parameter	Type	Description
issue	**Issue** object	**Definition**: Work item.

Table 4-285 Issue

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
subject	String	**Definition**: Owner of a work item. **Value range**: N/A
project	**Project** object	**Definition**: Project. **Value range**: N/A

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Parameter	Type	Description
is_parent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
findReleaseDev	String	**Definition**: Releaser. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
assigned_to	**IssueAssignedVO** object	**Definition**: Work item owner. **Value range**: N/A
status_attribute	Object	**Definition**: Work item status. **Value range**: N/A

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Parameter	Type	Description
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Release version of a work item. **Value range**: N/A
author	**IssueAuthorVO** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A

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Parameter	Type	Description
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: favorited. **false**: not favorited.
deleted	Boolean	**Definition**: Whether to delete. **Value range**: **true**: delete **false**: not delete
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **true**: yes **false**: no.
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A

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Parameter	Type	Description
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0** (enabled) **1** (disabled)
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-286 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

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Table 4-287 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-288 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**

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Parameter	Type	Description
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-289 IssueAssignedVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-290 Severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: information

Table 4-291 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-292 Priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High

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Parameter	Type	Description
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

Table 4-293 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

Example Requests

```
POST https://{endpoint}/v3/file/issue-create?_=1753359298572

{
  "issue_call_back_param" : {
    "status_id" : 1,
    "subject" : "123",
    "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br /></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br /></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
    "start_date" : null,
    "order" : 1,
```

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```
  "priority_id" : 2,
  "severity_id" : 12,
  "release_dev" : "",
  "expected_work_hours" : "0",
  "story_point_id" : 3,
  "due_date" : null,
  "assigned_cc" : "",
  "assigned_to_id" : 4091,
  "project_uuid" : "5192de5eb435430c8cd41c6ae6028848",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "tracker_id" : 7
 },
 "type" : "create"
}
```

Example Responses

Status code: 200

```
{
 "result" : {
  "issue" : {
   "id" : 9190894,
   "subject" : "123",
   "author" : {
    "identifier" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_s00404480_01",
    "last_name" : 4091,
    "id" : 4091,
    "image_id" : 4091,
    "first_name" : 4091
   },
   "done_ratio" : 0,
   "expected_work_hours" : 0,
   "actual_work_hours" : 0,
   "position" : "9190894",
   "closed_flag" : 0,
   "deleted" : false,
   "custom_value_new" : { },
   "project" : {
    "identifier" : "5192de5eb435430c8cd41c6ae6028848",
    "name" : "DevOps Full-Process Sample Project XXXX",
    "id" : 35138974,
    "type" : "scrum"
   },
   "tracker" : {
    "name" : "Story",
    "id" : 7
   },
   "status" : {
    "name" : "New",
    "id" : 1
   },
   "assigned_to" : {
    "identifier" : "a360371833bf4c558f796fd707b44daf",
    "assigned_nick_name" : "Sam 1",
    "name" : "devcloud_devcloud_s00404480_01",
    "last_name" : "devcloud_devcloud_s00404480_01",
    "id" : 4091,
    "image_id" : "photo01.png",
    "first_name" : "devcloud_devcloud_s00404480_01"
   },
   "developer" : { },
   "priority" : {
    "name" : "Medium",
    "id" : 2
   },
   "severity" : {
    "name" : "Minor",
```

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```
      "id" : 12
    },
    "module" : { },
    "fixed_version" : { },
    "story_point" : {
      "id" : 3,
      "name" : "1"
    },
    "assigned_cc_user" : [ null ]
  }
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for creating a work item API.

Error Codes

See **Error Codes**.

4.6.17 Deleting a Work Item

Function

This API is used to delete a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/issue/delete

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Request Parameters

Table 4-294 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-295 Request body parameters

Parameter	Mandatory	Type	Description
call_back_param	No	**call_back_param** object	**Definition**: Request parameter for deleting a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
type	No	String	**Definition**: Work item operation type. **Constraints**: N/A **Value range**: **deleteIssue** **Default value**: **deleteIssue**

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Table 4-296 call_back_param

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
issue_id	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
type	No	String	**Definition**: Project type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: **Scrum**

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Response Parameters

Status code: 200

Table 4-297 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-298 result

Parameter	Type	Description
deleted_issues	Array of **deleted_issues** objects	**Definition**: Deleted work item. **Value range**: N/A
delete_attachment_files	Array of strings	**Definition**: Deleted attachment. **Value range**: N/A
issues	Array of **issues** objects	**Definition**: Work item. **Value range**: N/A

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Table 4-299 deleted_issues

Parameter	Type	Description
id	Integer	**Definition**: ID of the work item to be deleted. **Value range**: N/A
subject	String	**Definition**: Name of the work item to be deleted. **Value range**: N/A
author	**IssueAuthorVO** object	**Definition**: User. **Value range**: N/A
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
updated_on	String	**Definition**: Work item update time, in timestamp format, for example, **1839340800000**. **Value range**: N/A **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A

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Parameter	Type	Description
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Whether to subscribe to information. **Value range**: **true** (subscribe) **false** (not subscribe)
project	**Project** object	**Definition**: Project. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A
status_attribute	**StatusAttribute** object	**Definition**: Status attribute. **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
assigned_to	**IssueAssignedVO** object	**Definition**: Project owner. **Value range**: N/A

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Parameter	Type	Description
developer	Object	**Definition**: Developer. **Value range**: N/A
closeder	Object	**Definition**: Project closure personnel. **Value range**: N/A
fixed_version	Object	**Definition**: Fixed version. **Value range**: N/A
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
order	**Order** object	**Definition**: Sorting of work items. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
release_dev	String	**Definition**: Work item release version. **Value range**: N/A

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Parameter	Type	Description
find_release_dev	String	**Definition**: Releaser. **Value range**: N/A
assigned_cc_user	Array of strings	**Definition**: Cc recipient. **Value range**: N/A
has_httachments	Boolean	**Definition**: Whether there is an attachment. **Value range**: **true** (with attachments) **false** (no attachments)

Table 4-300 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A

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Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-301 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

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Table 4-302 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-303 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected

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Parameter	Type	Description
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

Table 4-304 StatusAttribute

Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project. **Value range**: N/A
name	String	**Definition**: Name. **Value range**: N/A

Table 4-305 Priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High

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Parameter	Type	Description
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

Table 4-306 IssueAssignedVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-307 Severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: information

Table 4-308 Order

Parameter	Type	Description
name	Integer	**Definition**: Sorting name. **Value range**: N/A
id	Integer	**Definition**: Order ID. **Value range**: N/A

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Table 4-309 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

Table 4-310 issues

Parameter	Type	Description
tracker_id	Integer	**Definition**: Work item type. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v3/issue/delete

{
  "call_back_param" : {
```

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```
    "project_id" : "5192de5eb435430c8cd41c6ae6028848",
    "issue_id" : "9186305",
    "type" : "scrum"
  },
  "type" : "deleteIssue"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "deleted_issues" : [ {
      "id" : 9186305,
      "subject" : "123",
      "author" : {
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "created_on" : "2025-07-25T11:46:55Z",
      "updated_on" : "2025-07-25T11:46:55Z",
      "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
      "expected_work_hours" : 0,
      "actual_work_hours" : 0,
      "is_watcher" : false,
      "project" : {
        "identifier" : "5192de5eb435430c8cd41c6ae6028848",
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "status" : {
        "name" : "New",
        "id" : 1
      },
      "status_attribute" : {
        "name" : "To Do"
      },
      "priority" : {
        "name" : "Medium"
      },
      "assigned_to" : {
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "assigned_nick_name" : "Sam 1",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "developer" : { },
      "closeder" : { },
      "fixed_version" : { },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
      "order" : {
        "name" : 1,
        "id" : 1
```

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```
    },
    "domain" : { },
    "module" : { },
    "story_point" : {
      "id" : 3,
      "name" : "1"
    },
    "release_dev" : "",
    "find_release_dev" : "",
    "assigned_cc_user" : [ ],
    "has_httachments" : false
  } ],
  "delete_attachment_files" : [ ],
  "issues" : [ {
    "tracker_id" : 7,
    "project_id" : "5192de5eb435430c8cd41c6ae6028848",
    "id" : 9186305
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for deleting a work item API.

Error Codes

See **Error Codes**.

4.6.18 Checking Whether the Current User has the Permission to Set Workloads

Function

This API is used to check whether the current user has the permission to set workloads.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v3/projects/{project_uuid}/issues/{issue_id}/history-permission

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Table 4-311 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-312 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-313 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

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Table 4-314 result

Parameter	Type	Description
is_history_processor	Boolean	**Definition**: Whether the user has the permission to operate workloads. **Value range**: **true** (default value) **false** (not the default value)

Example Requests

```
{endpoint}/v3/projects/381fcca9c056482d92da3e8b9da71db5/issues/69813204/history-permission
```

Example Responses

Status code: 200

```
{
  "result" : {
    "is_history_processor" : true
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for checking whether the current user has the permission to set workloads.

Error Codes

See **Error Codes**.

4.6.19 Querying the Numbers of Work Item Metrics on the Details Page

Function

This API is used to query the numbers of work item metrics on the details page.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v3/workitem/scrum/index-count

Table 4-315 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-316 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-317 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

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Table 4-318 result

Parameter	Type	Description
related_issue_count	Integer	**Definition**: Total number of associated work items. **Value range**: N/A
related_wiki_count	Integer	**Definition**: Total number of associated wikis. **Value range**: N/A
related_test_case_count	Integer	**Definition**: Total number of associated test cases. **Value range**: N/A
related_test_plan_count	Integer	**Definition**: Total number of associated test plans. **Value range**: N/A
code_commit_count	Integer	**Definition**: Total number of code commit records. **Value range**: N/A
code_branch_count	Integer	**Definition**: Total number of code branches. **Value range**: N/A
code_mergerequest_count	Integer	**Definition**: Total number of code merge requests. **Value range**: N/A

Example Requests

```
GET https://{engdpoint}/v3/workitem/scrum/index-count?
issue_id=2884417&project_uuid=310eed4d6160446cb294a8bacfd46e7e
```

Example Responses

Status code: 200

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```
{
  "result" : {
    "related_issue_count" : 0,
    "related_wiki_count" : 0,
    "related_test_case_count" : 0,
    "related_test_plan_count" : 0,
    "code_commit_count" : 0,
    "code_branch_count" : 0,
    "code_mergerequest_count" : 0
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying the numbers of work item metrics on the details page.

Error Codes

See **Error Codes**.

4.6.20 Querying the Work Type List (V5)

Function

This API is used to query the work type list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v5/projects/{project_uuid}/work-hours-type

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Table 4-319 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Table 4-320 Query Parameters

Parameter	Mandatory	Type	Description
status	No	Integer	**Definition**: Whether the work type is valid. **Constraints**: N/A **Value range**: **0** (deleted) **1** (valid) **2** (discarded) **Default value**: N/A

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Request Parameters

Table 4-321 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-322 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

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Table 4-323 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of work types. **Value range**: N/A
list	Array of **list** objects	**Definition**: Work type list.

Table 4-324 list

Parameter	Type	Description
id	Integer	**Definition**: Primary key ID of a work type. **Value range**: N/A
project_num_id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
name	String	**Definition**: Name of a work type. **Value range**: N/A
created	String	**Definition**: Time when a work type is created. The format is yyyy-MM-dd HH:mm:ss.z, for example, **2025-08-06 10:00:51.0**. **Value range**: N/A
modified	String	**Definition**: Time when the work type is modified. The format is yyyy-MM-dd HH:mm:ss.z, for example, **2025-08-06 10:00:51.0**. **Value range**: N/A

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Parameter	Type	Description
position	Integer	**Definition**: Position of a work type in the list. **Value range**: N/A
status	Integer	**Definition**: Whether the work type is valid. **Value range**: **0** (deleted) **1** (valid) **2** (discarded)
in_use	Boolean	**Definition**: Whether the work type has been used. **Value range**: **true**: The work type has been used. **false**: The work type has not been used.

Example Requests

```
GET https://{endpoint}/v5/projects/c15cc54e338d4506afd9bd8103071ff0/work-hours-type?status=1
```

Example Responses

Status code: 200

```
{
  "result" : {
    "total_count" : 2,
    "list" : [ {
      "id" : 21,
      "project_num_id" : 6345282,
      "name" : "R&D and design",
      "created" : "2025-08-06 10:00:51.0",
      "modified" : "2025-08-06 10:00:51.0",
      "position" : 1,
      "status" : 1,
      "in_use" : true
    }, {
      "id" : 22,
      "project_num_id" : 6345282,
      "name" : "Backend development",
      "created" : "2025-08-06 10:00:51.0",
      "modified" : "2025-08-06 10:00:51.0",
      "position" : 2,
      "status" : 1
    } ]
  },
  "status" : "success"
}
```

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Status Codes

Status Code	Description
200	Response to a successful request for querying the workload type list.

Error Codes

See **Error Codes**.

4.6.21 Obtaining the Operation History (V2)

Function

This API is used to obtain the operation history (V2).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/issues/get-record

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Table 4-325 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
type	No	String	**Description**: Project type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A

Request Parameters

None

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Response Parameters

Status code: 200

Table 4-326 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success** and **error**

Table 4-327 result

Parameter	Type	Description
offset	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. **Value range**: Minimum value: **0**. Maximum value: **10,000**.
record	Array of **RecordRecord** objects	**Definition**: Historical record list.
limit	Integer	**Definition**: Number of records displayed on each page. **Value range**: Minimum value: **1**. Maximum value: **1,000**.
journals_total	Integer	**Definition**: Total number of log records. **Value range**: N/A

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Table 4-328 RecordRecord

Parameter	Type	Description
id	Integer	**Definition**: Operation batch ID in the historical records. Operations performed at the same time share an identical ID. **Value range**: N/A
notes	String	**Definition**: Remarks or comments related to log records. **Value range**: N/A
created_on	String	**Definition**: Timestamp when a historical record is created. **Value range**: N/A
user	**IssueUserVO** object	**Definition**: Operator information.
details	Array of **DetailsRecord** objects	**Definition**: Detailed information about historical records.

Table 4-329 IssueUserVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A

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Parameter	Type	Description
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-330 DetailsRecord

Parameter	Type	Description
id	Integer	**Definition**: Historical record ID. **Value range**: N/A
journal_id	Integer	**Definition**: Historical record ID. **Value range**: N/A
property	String	**Definition**: Changed attribute, for example, **attr**. **Value range**: N/A

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Parameter	Type	Description
new_value	String	**Definition**: Value of an attribute after modification. **Value range**: N/A
name	String	**Definition**: Field name of a historical record operation. **Value range**: N/A
operation	String	**Definition**: Operation performed on an attribute, for example, **create**, **delete**, and **modify**. **Value range**: N/A
old_value	String	**Definition**: Value of an attribute before modification. **Value range**: N/A

Example Requests

```
GET http://{endpoint}/v2/issues/get-record?
issue_id=9175005&project_id=c15cc54e338d4506afd9bd8103071ff0&limit=10&offset=0&type=scrum&_=1753
080349806
```

Example Responses

Status code: 200

```
{
  "result" : {
    "offset" : 0,
    "record" : [ {
      "id" : 11248513,
      "created_on" : "1752829690000",
      "user" : {
        "id" : 1111,
        "name" : "xxxxxx",
        "first_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "nick_name" : "xxxxxx"
      },
      "details" : [ {
        "id" : 15270161,
        "journal_id" : 11248513,
        "property" : "attr",
```

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```
      "old_value" : "",
      "new_value" : "1752854400000",
      "name" : "due_date",
      "operation" : "Batch edit"
    } ]
  }, {
    "id" : 11248513,
    "created_on" : "1752829690000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270162,
      "journal_id" : 11248513,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "1752768000000",
      "name" : "start_date",
      "operation" : "Batch edit"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270149,
      "journal_id" : 11248512,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "444",
      "name" : "subject",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270150,
      "journal_id" : 11248512,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User
role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </
span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight:
bold;\"> so as to </span><do something>&amp;nbsp;</p>",
      "name" : "description",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
```


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```
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
    "id" : 15270151,
    "journal_id" : 11248512,
    "property" : "attr",
    "new_value" : "New",
    "name" : "status_id",
    "operation" : "New"
  } ]
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
    "id" : 15270152,
    "journal_id" : 11248512,
    "property" : "attr",
    "old_value" : "",
    "new_value" : "xxxxxx",
    "name" : "assigned_to_id",
    "operation" : "Create"
  } ]
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
    "id" : 15270153,
    "journal_id" : 11248512,
    "property" : "attr",
    "old_value" : "",
    "new_value" : "1",
    "name" : "order",
    "operation" : "Create"
  } ]
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
```


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```
      "id" : 15270154,
      "journal_id" : 11248512,
      "property" : "attr",
      "new_value" : "Medium",
      "name" : "priority_id",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270155,
      "journal_id" : 11248512,
      "property" : "attr",
      "new_value" : "Minor",
      "name" : "severity_id",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270156,
      "journal_id" : 11248512,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "xxxxxx",
      "name" : "assigned_cc",
      "operation" : "Create"
    } ]
  } ],
  "limit" : 10,
  "journals_total" : 14
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for obtaining the operation history.

Error Codes

See **Error Codes**.

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4.6.22 Querying Associated Work Items (V2)

Function

This API is used to query associated work item information (V2).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/issues/inquire-associate

Table 4-331 Query Parameters

Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-332 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-333 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success** and **error**

Table 4-334 result

Parameter	Type	Description
associateIssues	**AssociateIssues** object	**Definition**: Associated project sub-object.

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Table 4-335 AssociateIssues

Parameter	Type	Description
issues	Array of **IssuesAssociate** objects	**Definition**: Associated child work item information.
total_count	Integer	**Definition**: Total number of associated work items. **Value range**: N/A

Table 4-336 IssuesAssociate

Parameter	Type	Description
identifier	String	**Definition**: UUID of the project to which the associated work item belongs. **Value range**: N/A
project_type	String	**Definition**: Project type. **Value range**: **Scrum**
new_status_name	String	**Definition**: New status name of the associated work item, for example, **New**. **Value range**: N/A
status_attribute_name	String	**Definition**: Status type of the associated work item. **Value range**: **To Do**, **Doing**, and **Done**.
subject	String	**Definition**: Title of the associated work item. **Value range**: N/A

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Parameter	Type	Description
status_name	String	**Definition**: Status name of the associated work item. **Value range**: N/A
project_name	String	**Definition**: Name of the project to which the associated work item belongs. **Value range**: N/A
status_id	Integer	**Definition**: Status ID of the associated work item. **Value range**: N/A
id	Integer	**Definition**: ID of the associated work item. **Value range**: N/A
assigned_to	**AssignedAssociate** object	**Definition**: Current owner of the associated work item.

Table 4-337 AssignedAssociate

Parameter	Type	Description
assigned_user_num_id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A

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Parameter	Type	Description
last_name	String	**Definition**: Username. **Value range**: N/A
assigned_user_id	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Example Requests

```
GET http://{endpoint}/v2/issues/inquire-associate??
project_id=c15cc54e338d4506afd9bd8103071ff0&issue_id=9132318&page_no=1&page_size=10
```

Example Responses

Status code: 200


```
{
  "result" : {
    "associateIssues" : {
      "total_count" : 2,
      "issues" : [ {
        "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
        "project_type" : "scrum",
        "new_status_name" : "New",
        "status_attribute_name" : "To Do",
        "subject" : "5555",
        "status_name" : "New",
        "project_name" : "Scrum0610ceshi",
        "status_id" : 1,
        "id" : 9184456,
        "assigned_to" : {
          "first_name" : "xxxxxx",
          "assigned_user_num_id" : 1111,
          "assigned_nick_name" : "xxxxxx",
          "name" : "xxxxxx",
          "last_name" : "xxxxxx",
          "assigned_user_id" : "xxxxxx"
        }
      }, {
        "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
        "project_type" : "scrum",
        "new_status_name" : "New",
        "status_attribute_name" : "To Do",
        "subject" : "Test",
        "status_name" : "New",
        "project_name" : "Scrum0610ceshi",
        "status_id" : 1,
        "id" : 9178848,
```


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```
      "assigned_to" : {
        "first_name" : "xxxxxx",
        "assigned_user_num_id" : 1111,
        "assigned_nick_name" : "xxxxxx",
        "name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "assigned_user_id" : "xxxxxx"
      }
    } ]
  }
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying an associated work item.

Error Codes

See **Error Codes**.

4.6.23 List Display

Function

This API is used to display lists.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/workitem/issue-list

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Request Parameters

Table 4-338 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-339 Request body parameters

Parameter	Mandatory	Type	Description
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
tracker_id	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Response Parameters

Status code: 200

Table 4-340 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition** Returned result. **Range** N/A

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Parameter	Type	Description
status	String	**Definition**: Work item status. **Value range**: N/A

Table 4-341 result

Parameter	Type	Description
total_count	Integer	**Definition**: Work item status. **Value range**: N/A
issues	Array of **issues** objects	**Definition**: Work item. **Value range**: N/A

Table 4-342 issues

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**story_point** object	**Definition**: Story point of a work item. **Value range**: N/A
subject	String	**Definition**: Owner of a work item. **Value range**: N/A

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Parameter	Type	Description
project	**project** object	**Definition**: Project. **Value range**: N/A
is_parent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
findReleaseDev	String	**Definition**: Releaser. **Value range**: N/A
tracker	**tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
assigned_to	**assigned_to** object	**Definition**: Work item owner. **Value range**: N/A

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Parameter	Type	Description
status_attribute	Object	**Definition**: Work item status. **Value range**: N/A
severity	**severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Release version of a work item. **Value range**: N/A
author	**author** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
priority	**priority** object	**Definition**: Priority. **Value range**: N/A

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Parameter	Type	Description
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: yes **false**: no
deleted	Boolean	**Definition**: Deleted or not. **Value range**: **true**: yes **false**: no
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **true**: yes **false**: no
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A

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Parameter	Type	Description
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0**: (not closed) **1**: (closed)
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-343 story_point

Parameter	Type	Description
id	Integer	**Description**: Story point ID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Description**: Story point name. **Value range**: N/A

Table 4-344 project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-345 tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**

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Parameter	Type	Description
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-346 assigned_to

Parameter	Type	Description
first_name	String	**Definition**: User's first name. **Value range**: N/A
last_name	String	**Definition**: User's last name. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-347 severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: trivial

Table 4-348 author

Parameter	Type	Description
first_name	String	**Definition**: User's first name. **Value range**: N/A
last_name	String	**Definition**: User's last name. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-349 priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High

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Parameter	Type	Description
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

Table 4-350 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

Example Requests

```
POST https://{endpoint}/v3/workitem/issue-list?_=1753241438364

{
  "page_no" : "1",
  "page_size" : "15",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "tracker_id" : "7,2,3"
}
```

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Example Responses

Status code: 200


```
{
  "result" : {
    "total_count" : 64,
    "issues" : [ {
      "updated_on" : "1753686505000",
      "story_point" : {
        "id" : 3,
        "name" : "1"
      },
      "subject" : "12111",
      "project" : {
        "identifier" : "5192de5eb435430c8cd41c6ae6028848",
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "is_parent" : true,
      "done_ratio" : 0,
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "id" : 9185630,
      "start_date" : "1753660800000",
      "assigned_to" : {
        "assigned_nick_name" : "Sam 1",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "image_id" : "photo01.png",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "status_attribute" : { },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
      "author" : {
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "image_id" : "photo01.png",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "module" : { },
      "due_date" : "1753747200000",
      "expected_work_hours" : 0,
      "priority" : {
        "name" : "Medium",
        "id" : 2
      },
      "actual_work_hours" : 1,
      "is_watcher" : false,
      "deleted" : false,
      "fixed_version" : { },
      "is_archived" : false,
      "created_on" : "1753410626000",
      "domain" : { },
      "developer" : { },
      "closeder" : { },
      "position" : "9185630.0000000000",
      "closed_flag" : 0,
      "assigned_cc_user" : [ ],
      "custom_value_new" : { },
      "status" : {
        "name" : "New",
```


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```
      "id" : 1
    }
  }, {
    "updated_on" : "1753325447000",
    "subject" : "User management - Cannot set membership level",
    "project" : {
      "identifier" : "5192de5eb435430c8cd41c6ae6028848",
      "name" : "DevOps Full-Process Sample Project XXXX",
      "id" : 35138974
    },
    "is_parent" : false,
    "done_ratio" : 0,
    "find_release_dev" : "",
    "tracker" : {
      "name" : "Bug",
      "id" : 3
    },
    "id" : 9184263,
    "assigned_to" : {
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "module" : { },
    "expected_work_hours" : 0,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1753084464000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "position" : "9179047.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "custom_value_new" : { },
    "status" : {
      "name" : "New",
      "id" : 1
    }
  } ]
},
"status" : "success"
}
```


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Status Codes

Status Code	Description
200	Response to a successful request for displaying the list.

Error Codes

See **Error Codes**.

4.6.24 Batch Editing Work Items (V2)

Function

This API is used to edit work items in batches.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/workitem/issues

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Request Parameters

Table 4-351 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-352 Request body parameters

Parameter	Mandatory	Type	Description
assigned_to_id	No	String	**Definition**: Digital ID of the module owner, which is obtained by calling the **Obtaining the Member List of a Specified Project** API. The value of **user_num_id** in the response message body is the ID of the module owner. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_ids	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-353 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-354 result

Parameter	Type	Description
project	**project** object	**Definition**: Project. **Value range**: N/A
journal_ids	Array of strings	**Definition**: Historical record ID. **Value range**: N/A
error_issues	Array of integers	**Definition**: Work items that fail to be edited. **Value range**: N/A
versions_issues	Array of strings	**Definition**: Sprint version of a work item. **Value range**: N/A
success_issues	Array of strings	**Definition**: Work items that are successfully edited. **Value range**: N/A

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Table 4-355 project

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
identifier	String	**Definition**: Project UUID. **Value range**: N/A
total	Integer	**Definition**: Total number of work items that are edited in batches. **Value range**: N/A
close	Integer	**Definition**: Whether the project is closed. **Value range**: **0**: (not closed) **1**: (closed)
role	Integer	**Definition**: Number of work items that are edited in batches. **Value range**: N/A
type	String	**Definition**: Work item type. **Value range**: **scrum**
archive	Boolean	**Definition**: Whether a work item is archived. **Value range**: **true** (archived) **false** (not archived)
mem_count	Integer	**Definition**: Number of projects. **Value range**: N/A

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Example Requests

```
POST https://{endpoint}/v2/workitem/issues

{
  "assigned_to_id" : "4091",
  "issue_ids" : "9191020",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "project" : {
      "id" : 35138974,
      "identifier" : "5192de5eb435430c8cd41c6ae6028848",
      "total" : 0,
      "close" : 0,
      "role" : 0,
      "type" : "scrum",
      "archive" : true,
      "mem_count" : 0
    },
    "journal_ids" : [ ],
    "error_issues" : [ 9191020 ],
    "versions_issues" : [ ],
    "success_issues" : [ ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for editing work items in batches.

Error Codes

See **Error Codes**.

4.6.25 Querying the Filters Created by or Shared with the Current User

Function

This API is used to query the filters created by or shared with the current user.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/query/list-all

Table 4-356 Query Parameters

Parameter	Mandatory	Type	Description
projectId	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-357 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-358 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of querying the filter lists that are created by or shared with the current user.
status	String	**Definition**: Returned status of querying the filter lists that are created by or shared with the current user. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-359 result

Parameter	Type	Description
shared	Array of strings	**Definition**: Filter list shared with the current user. **Value range**: N/A
created	Array of strings	**Definition**: Filter list created by the current user. **Value range**: N/A

Example Requests

```
{endpoint}/v2/query/list-all?project_id=381fcca9c056482d92da3e8b9da71db5
```

Example Responses

Status code: 200

```
{
  "result" : {
    "shared" : [ ],
    "created" : [ ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying the filter lists created by or shared with the current user.

Error Codes

See **Error Codes**.

4.6.26 Querying Work Items of a Sprint

Function

This API is used to query work items of a sprint.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/version/query-scrum-version

Request Parameters

Table 4-360 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-361 Request body parameters

Parameter	Mandatory	Type	Description
projectUUId	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
fixed_version_id	No	String	**Definition**: Sprint ID. You can obtain the sprint list of a project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: N/A **Value range**: Minimum value: **0**. **Default value**: N/A
issueQuery	No	String	**Definition**: Number of work items in a sprint. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
subject	No	String	**Definition** Work item title. **Constraints** 1 to 200,000 characters. **Range** N/A **Default Value** N/A
tracker_id	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A
displayMode	No	String	**Definition**: Display mode. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-362 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of the sprint work item query.
status	String	**Definition**: Returned status of the sprint work item query. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-363 result

Parameter	Type	Description
issues	Array of **issues** objects	**Definition**: Work item list.

Table 4-364 issues

Parameter	Type	Description
data	Array of **data** objects	**Definition**: Work item data.
expectedHours	String	**Definition**: Estimated workloads (unit: person-hour). **Value range**: N/A
time	String	**Definition**: Working time in timestamp format, for example, **1839340800000**. **Value range**: N/A
user	**user** object	**Definition**: User.

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Table 4-365 data

Parameter	Type	Description
2025-07-11	Array of **IssueNew** objects	**Definition**: Work item data on July 11.

Table 4-366 IssueNew

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
subject	String	**Definition**: Owner of a work item. **Value range**: N/A
project	**Project** object	**Definition**: Project. **Value range**: N/A
isParent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A

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Parameter	Type	Description
findReleaseDev	String	**Definition**: Releaser. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
assigned_to	**assigned_to** object	**Definition**: Work item owner. **Value range**: N/A
status_attribute	**StatusAttribute-VO** object	**Definition**: Work item status. **Value range**: N/A
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Release version of a work item. **Value range**: N/A

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Parameter	Type	Description
author	**author** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: yes **false**: no
deleted	Boolean	**Definition**: Deleted or not. **Value range**: **true**: yes **false**: no

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Parameter	Type	Description
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Whether the work item has been archived. **Value range**: **true**: yes **false**: no
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0**: (not closed) **1**: (closed)

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Parameter	Type	Description
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-367 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

Table 4-368 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-369 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-370 assigned_to

Parameter	Type	Description
firstName	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
lastName	String	**Definition**: Username. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assignedNickName	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-371 StatusAttributeVO

Parameter	Type	Description
id	String	**Definition**: Project ID. **Value range**: N/A
name	String	**Definition**: Name. **Value range**: N/A

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Table 4-372 Severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: information

Table 4-373 author

Parameter	Type	Description
firstName	String	**Definition**: Username. **Value range**: N/A
lastName	String	**Definition**: Username. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A

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Parameter	Type	Description
authorNickName	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-374 Priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

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Table 4-375 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

Table 4-376 user

Parameter	Type	Description
firstName	String	**Definition**: Username. **Value range**: N/A
lastName	String	**Definition**: Username. **Value range**: N/A
imageId	String	**Definition**: User avatar ID. **Value range**: N/A

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Parameter	Type	Description
assignedNickName	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v2/version/query-scrum-version

{
  "projectUUId" : "5192de5eb435430c8cd41c6ae6028848",
  "fixed_version_id" : "26664788",
  "issueQuery" : "7",
  "subject" : "",
  "tracker_id" : "7,2,3",
  "displayMode" : "member"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "issues" : [ {
      "data" : [ {
        "2025-07-11" : [ {
          "subject" : "Database design and implementation of the bonus point function",
          "project" : {
            "identifier" : "381fcca9c056482d92da3e8b9da71db5",
            "name" : "DevOps Full-Process Sample Project XXXX"
          },
          "findReleaseDev" : "",
          "tracker" : {
            "name" : "Task",
            "id" : 2
          },
          "id" : 69782376,
          "releaseDev" : "",
          "assigned_to" : {
            "firstName" : "hw_008618814464665_01",
            "lastName" : "hw19145027",
            "assignedNickName" : "asdf4",
            "name" : "hw19145027",
            "id" : 233087
          },
```

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```
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
    },
    "module" : {
      "path" : "5939806",
      "name" : "Membership management",
      "id" : 5939806,
      "path_name" : "Membership management"
    },
    "due_date" : "1752249600000",
    "expected_work_hours" : 8,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Closed",
      "id" : 5
    }
  }, {
    "subject" : "Design of bonus points earning rules",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Task",
      "id" : 2
    },
    "id" : 69782377,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
```


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```
      "authorNickName" : "asdf4"
    },
    "module" : {
      "path" : "5939806",
      "name" : "Membership management",
      "id" : 5939806,
      "path_name" : "Membership management"
    },
    "due_date" : "1752422400000",
    "expected_work_hours" : 16,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Closed",
      "id" : 5
    }
  }, {
    "subject" : "Accessory database design",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Task",
      "id" : 2
    },
    "id" : 69782399,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
    },
    "module" : { },
    "due_date" : "1752768000000",
    "expected_work_hours" : 8,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
```


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```
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Closed",
      "id" : 5
    }
  }, {
    "subject" : "Frontend development of the accessory management page",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Task",
      "id" : 2
    },
    "id" : 69782400,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
    },
    "module" : { },
    "due_date" : "1752940800000",
    "expected_work_hours" : 12,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Closed",
      "id" : 5
    }
  }, {
```


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```
    "subject" : "Accessory report structure design",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Task",
      "id" : 2
    },
    "id" : 69782401,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
    },
    "module" : { },
    "due_date" : "1753113600000",
    "expected_work_hours" : 26,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Closed",
      "id" : 5
    }
  }, {
    "subject" : "Search for functions under development",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Task",
      "id" : 2
    },
    "id" : 69782418,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
```


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```
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
    },
    "module" : { },
    "due_date" : "1753459200000",
    "expected_work_hours" : 24,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Resolved",
      "id" : 3
    }
  }, {
    "subject" : "Accessory report page development",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Task",
      "id" : 2
    },
    "id" : 69782402,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
```


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```
    },
    "module" : { },
    "due_date" : "1753286400000",
    "expected_work_hours" : 24,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "Closed",
      "id" : 5
    }
  }, {
    "subject" : "Bonus points - Rule page cannot be displayed",
    "project" : {
      "identifier" : "381fcca9c056482d92da3e8b9da71db5",
      "name" : "DevOps Full-Process Sample Project XXXX"
    },
    "findReleaseDev" : "",
    "tracker" : {
      "name" : "Bug",
      "id" : 3
    },
    "id" : 69782387,
    "releaseDev" : "",
    "assigned_to" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "name" : "hw19145027",
      "id" : 233087,
      "authorNickName" : "asdf4"
    },
    "module" : { },
    "due_date" : "1752595200000",
    "expected_work_hours" : 8,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : {
      "name" : "Sprint 3",
      "id" : 21723087
    },
```


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```
        "domain" : { },
        "developer" : { },
        "closeder" : { },
        "assigned_cc_user" : [ ],
        "status" : {
          "name" : "Closed",
          "id" : 5
        }
      } ]
    } ],
    "expectedHours" : "126.0",
    "time" : "1755482637394",
    "user" : {
      "firstName" : "hw_008618814464665_01",
      "lastName" : "hw19145027",
      "imageId" : "photo01.png",
      "assignedNickName" : "asdf4",
      "name" : "hw19145027",
      "id" : 233087
    }
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying work items of a sprint.

Error Codes

See **Error Codes**.

4.6.27 Associating a Work Item

Function

This API is used to associate a work item with one or more target work items, while also supporting the cancellation of existing associations in the same request.

After the association is established, a journal record is generated. The association is also subject to the maximum number of associations per work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

POST /v2/issues/associate-issue

Request Parameters

Table 4-377 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User access credential. It can be obtained by calling the IAM API to obtain a user token (the value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** 10 to 32,768 characters. **Default Value** N/A

Table 4-378 Request body parameters

Parameter	Mandatory	Type	Description
projectUUId	Yes	String	**Definition** Source project UUID, identifying the project to which the source work item for association belongs. **Constraints** 32-character UUID string. This parameter is mandatory. **Range** 32 characters, consisting of lowercase letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
attachProjectUUId	No	String	**Definition** Target project UUID, identifying the project to which the target work item for association belongs. This parameter is mandatory for cross-project association and optional for intra-project association. **Constraints** 32-character UUID string. If the value is different from **projectUUId**, it is considered a cross-project association. **Range** 32 characters, consisting of lowercase letters and digits. **Default Value** N/A
issueId	Yes	Integer	**Definition** Source work item ID. That is, the unique ID of the work item for which the association is to be established. **Constraints** The work item must exist and must not be archived. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
associatedIssueIdList	No	Array of strings	**Definition** ID list of work items to be associated. This is the set of target work item IDs for which new associations need to be established. **Constraints** Each element is a work item ID in string format (automatically converted to an integer by the server). It cannot include the issue ID itself. The total number of associations per work item is limited by the system upper limit. **Range** N/A **Default Value** N/A
unassociatedIssueIdList	No	Array of strings	**Definition** ID list of work items to be disassociated. This is the set of target work item IDs for which associations need to be removed. Can be mixed in the same request to support association relationship adjustments. **Constraints** Each element is a work item ID in string format. Only existing association relationships are processed. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-379 Response body parameters

Parameter	Type	Description
result	Array of **AssociateIssueDetail** objects	**Definition** List of newly added association records, where each element corresponds to an association.
status	String	**Definition** Overall response status of the API. **Range** • **success**: The work items are associated successfully. • **error**: The work items fail to associate. See the error code description for details.

Table 4-380 AssociateIssueDetail

Parameter	Type	Description
identifier	String	**Definition** Association ID. **Range** 32 characters, consisting of lowercase letters and digits.
issueId	Integer	**Definition** Source work item ID. **Range** N/A
projectId	Integer	**Definition** Source project numeric ID (primary key of the project table). **Range** N/A
associateType	String	**Definition** Association type. **Range** • **associate**: Associate a work item.

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Parameter	Type	Description
associateIssueId	Integer	**Definition** ID of the associated work item. **Range** N/A
associateProjectId	Integer	**Definition** Numeric ID of the associated project (primary key of the project table). **Range** N/A
createdOn	String	**Definition** Association creation time. **Range** The format is *yyyy-MM-dd HH:mm:ss*.
authorId	Integer	**Definition** ID of the user who created the association. **Range** N/A
flag	Boolean	**Definition** Association validity flag. **Range** • **true**: The association is valid. • **false**: The association has expired.
region	String	**Definition** Region ID, indicating the region where the association is located. **Range** N/A

Status code: 400

Table 4-381 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

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Example Requests

Example request for associating a work item.

```
POST https://{endpoint}/v2/issues/associate-issue

{
  "projectUUId" : "45fba8eff9f3492585ce846767028f73",
  "attachProjectUUId" : "45fba8eff9f3492585ce846767028f73",
  "issueId" : 71058791,
  "associatedIssueIdList" : [ "71058792" ],
  "unassociatedIssueIdList" : [ ]
}
```

Example Responses

Status code: 200

```
{
  "result" : [ {
    "identifier" : "27bdd22a0eeb4eefa431bebd2940b082",
    "issueId" : 71058791,
    "projectId" : 13628638,
    "associateType" : "associate",
    "associateIssueId" : 71058792,
    "associateProjectId" : 13628638,
    "createdOn" : "2026-09-01 20:37:39",
    "authorId" : 1274137,
    "flag" : true,
    "region" : "cn-north-4"
  } ],
  "status" : "success"
}
```

Status code: 400

```
{
  "error" : {
    "code" : "DEV_21_400806",
    "reason" : "The work item association does not exist."
  },
  "status" : "error"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Example request for associating a work item.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;
```

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```
public class AssociateScrumIssueSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        AssociateScrumIssueRequest request = new AssociateScrumIssueRequest();
        AssociateIssueRequest body = new AssociateIssueRequest();
        List<String> listbodyAssociatedIssueIdList = new ArrayList<>();
        listbodyAssociatedIssueIdList.add("71058792");
        body.withAssociatedIssueIdList(listbodyAssociatedIssueIdList);
        body.withIssueId(71058791);
        body.withAttachProjectUUId("45fba8eff9f3492585ce846767028f73");
        body.withProjectUUId("45fba8eff9f3492585ce846767028f73");
        request.withBody(body);
        try {
            AssociateScrumIssueResponse response = client.associateScrumIssue(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Example request for associating a work item.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
```

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```
    .with_credentials(credentials) \
    .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = AssociateScrumIssueRequest()
    listAssociatedIssueIdListbody = [
        "71058792"
    ]
    request.body = AssociateIssueRequest(
        associated_issue_id_list=listAssociatedIssueIdListbody,
        issue_id=71058791,
        attach_project_uu_id="45fba8eff9f3492585ce846767028f73",
        project_uu_id="45fba8eff9f3492585ce846767028f73"
    )
    response = client.associate_scrum_issue(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

Example request for associating a work item.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.AssociateScrumIssueRequest{}
    var listAssociatedIssueIdListbody = []string{
        "71058792",
    }
    attachProjectUUIdAssociateIssueRequest:= "45fba8eff9f3492585ce846767028f73"
    request.Body = &model.AssociateIssueRequest{
        AssociatedIssueIdList: &listAssociatedIssueIdListbody,
        IssueId: int32(71058791),
        AttachProjectUUId: &attachProjectUUIdAssociateIssueRequest,
        ProjectUUId: "45fba8eff9f3492585ce846767028f73",
    }
    response, err := client.AssociateScrumIssue(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	The association is successful.
400	The work item association does not exist.

Error Codes

See **Error Codes**.

4.6.28 Disassociating a Work Item

Function

Cancel the association between two work items. Only the project creator, project administrator, work item owner, creator, or users with edit permissions can perform this operation.

After cancellation, a journal record is generated.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

POST /v2/issues/cancel-associate

Request Parameters

Table 4-382 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User access credential. It can be obtained by calling the IAM API to obtain a user token (the value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** 10 to 32,768 characters. **Default Value** N/A

Table 4-383 Request body parameters

Parameter	Mandatory	Type	Description
projectUUId	Yes	String	**Definition** Source project UUID, identifying the project to which the source work item for disassociation belongs. **Constraints** 32-character UUID string. This parameter is mandatory. **Range** 32 characters, consisting of lowercase letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
attachProjectUUId	No	String	**Definition** Target project UUID, identifying the project to which the disassociated work item belongs. This parameter is mandatory for cross-project disassociation. **Constraints** 32-character UUID string. **Range** 32 characters, consisting of lowercase letters and digits. **Default Value** N/A
issueId	Yes	Integer	**Definition** Source work item ID. That is, the unique ID of the work item for which the association is to be disassociated. **Constraints** The work item must exist and must not be archived. **Range** N/A **Default Value** N/A
attachIssueId	Yes	Integer	**Definition** ID of the target work item to be disassociated. **Constraints** An association must already exist with the source work item. If not, error code **DEV_21_400806** is returned. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-384 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition** Details of the canceled association records, including all attribute information of the association.
status	String	**Definition** Overall response status of the API. **Range** • **success**: The work items are disassociated successfully. • **error**: The work items fail to disassociate. See the error code description for details.

Table 4-385 result

Parameter	Type	Description
identifier	String	**Definition** Association ID. **Range** 32 characters, consisting of lowercase letters and digits.
issueId	Integer	**Definition** Source work item ID. **Range** N/A
projectId	Integer	**Definition** Numeric ID of the source project. **Range** N/A
associateType	String	**Definition** Association type. **Range** • **associate**: Associate a work item.
associateIssueId	Integer	**Definition** ID of the associated work item. **Range** N/A

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Parameter	Type	Description
associateProjectId	Integer	**Definition** Numeric ID of the associated project. **Range** N/A
createdOn	String	**Definition** Association creation time. **Range** The format is *yyyy-MM-dd HH:mm:ss*.
authorId	Integer	**Definition** ID of the user who created the association. **Range** N/A
flag	Boolean	**Definition** Association validity flag. **Range** • **true**: The association is valid. • **false**: The association has expired.

Status code: 400

Table 4-386 Response body parameters

Parameter	Type	Description
{User defined key}	Map<String,**ErrorRsp**>	Response returned upon a failure.

Table 4-387 ErrorRsp

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Work item **71058791** in project **45fba8eff9f3492585ce846767028f73** disassociates from another work item **71058792** in the same project.

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```
POST https://{endpoint}/v2/issues/cancel-associate

{
  "projectUUId" : "45fba8eff9f3492585ce846767028f73",
  "attachProjectUUId" : "45fba8eff9f3492585ce846767028f73",
  "issueId" : 71058791,
  "attachIssueId" : 71058792
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "identifier" : "27bdd22a0eeb4eefa431bebd2940b082",
    "issueId" : 71058791,
    "projectId" : 13628638,
    "associateType" : "associate",
    "associateIssueId" : 71058792,
    "associateProjectId" : 13628638,
    "createdOn" : "2026-09-01 20:37:39",
    "authorId" : 1274137,
    "flag" : true
  },
  "status" : "success"
}
```

Status code: 400

```
{
  "error" : {
    "code" : "DEV_21_400806",
    "reason" : "The work item association does not exist."
  },
  "status" : "error"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Work item **71058791** in project **45fba8eff9f3492585ce846767028f73** disassociates from another work item **71058792** in the same project.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CancelScrumAssociateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
```

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```
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CancelScrumAssociateRequest request = new CancelScrumAssociateRequest();
        CancelAssociateIssueRequest body = new CancelAssociateIssueRequest();
        body.withAttachIssueId(71058792);
        body.withIssueId(71058791);
        body.withAttachProjectUUId("45fba8eff9f3492585ce846767028f73");
        body.withProjectUUId("45fba8eff9f3492585ce846767028f73");
        request.withBody(body);
        try {
            CancelScrumAssociateResponse response = client.cancelScrumAssociate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Work item **71058791** in project **45fba8eff9f3492585ce846767028f73** disassociates from another work item **71058792** in the same project.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CancelScrumAssociateRequest()
        request.body = CancelAssociateIssueRequest(
            attach_issue_id=71058792,
```

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```
            issue_id=71058791,
            attach_project_uu_id="45fba8eff9f3492585ce846767028f73",
            project_uu_id="45fba8eff9f3492585ce846767028f73"
        )
        response = client.cancel_scrum_associate(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Work item **71058791** in project **45fba8eff9f3492585ce846767028f73** disassociates from another work item **71058792** in the same project.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CancelScrumAssociateRequest{}
    attachProjectUUIdCancelAssociateIssueRequest:= "45fba8eff9f3492585ce846767028f73"
    request.Body = &model.CancelAssociateIssueRequest{
        AttachIssueId: int32(71058792),
        IssueId: int32(71058791),
        AttachProjectUUId: &attachProjectUUIdCancelAssociateIssueRequest,
        ProjectUUId: "45fba8eff9f3492585ce846767028f73",
    }
    response, err := client.CancelScrumAssociate(request)
    if err == nil {
```

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```
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	The disassociation is successful.
400	The project, work item, or association does not exist.

Error Codes

See **Error Codes**.

4.6.29 Deleting a Work Item Comment

Function

This API is used to delete a comment under a specified work item. Only the comment creator can delete it. After deletion, the comment content of the work item will be cleared.

This API triggers testman requirement notifications for cross-system data synchronization.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v2/workitem/issue-note

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Request Parameters

Table 4-388 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User access credential. It can be obtained by calling the IAM API to obtain a user token (the value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** 10 to 32,768 characters. **Default Value** N/A

Table 4-389 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	Integer	**Definition** Comment ID, identifying the unique record of the work item comment to be deleted. **Constraints** The comment must exist and the current user must be the creator of the comment. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
projectId	Yes	String	**Definition** Project ID, identifying the project to which the comment belongs, used for permission verification and service availability verification. **Constraints** 32-character UUID string, which must be consistent with the project to which the corresponding work item of the comment belongs. **Range** 32 characters, consisting of lowercase letters and digits. **Default Value** N/A
type	No	String	**Definition** Work item type, identifying the work item type classification corresponding to the current operation. **Constraints** N/A **Range** • **scrum**: Scrum project type work item. • For other types, refer to the actual service definition. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-390 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition** Business result returned by the deletion operation, including the deletion status flag.
status	String	**Definition** Overall response status of the API. **Range** • **success**: The API request is successful. • **error**: The API request fails. See the error code description for details.

Table 4-391 result

Parameter	Type	Description
status	String	**Definition** Result of the business process for deleting a work item comment. **Range** • **success**: The work item comment was deleted successfully.

Example Requests

Delete the comment with ID **13775504** under work item of scrum project **0e97bec7b32f4e0d8d9c1905e7274123**.

```
GET https://{endpoint}/v2/workitem/issue-note

{
  "id" : 13775504,
  "projectId" : "0e97bec7b32f4e0d8d9c1905e7274123",
  "type" : "scrum"
}
```

Example Responses

None

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Status Codes

Status Code	Description
200	Deletion succeeded.
401	Unauthorized. The token is invalid or has expired.
403	Insufficient permissions. You are not the comment creator or a project member.

Error Codes

See **Error Codes**.

4.6.30 Favoriting a Work Item

Function

This API is used to favorite a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/issues/watch

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Request Parameters

Table 4-392 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-393 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition**: Type of the current project. **Constraints**: N/A **Value range**: SCRUM **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	No	String	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** A string of 1 to 10 digits. **Range** 1 to 10 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-394 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of favoriting a work item.
status	String	**Definition**: Status of the current request. **Value range**: **success**: successful **error**: failed

Table 4-395 result

Parameter	Type	Description
watcher	**watcher** object	**Definition**: Structure of a favorited work item.

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Table 4-396 watcher

Parameter	Type	Description
id	Integer	**Definition** Unique ID of the current favoriting record. **Range** N/A
watchable_type	String	**Definition**: Type of a favorited work item. **Value range**: **Issue** (favorited work item) **project** (favorited project)
watchable_id	Integer	**Definition** ID of the favorited work item or project. **Range** N/A
user_id	Integer	**Definition** User ID of a favoriter. **Range** N/A
region	String	**Definition**: Region where the current project is located. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v2/issues/watch?_=1754368218398

{
  "issue_id" : 9192160,
  "type" : "scrum"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "watcher" : {
      "id" : 226991,
      "watchable_type" : "Issue",
      "watchable_id" : 9192160,
```

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```
    "user_id" : 4091,
    "region" : "example"
  }
 },
 "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body of the current request.

Error Codes

See **Error Codes**.

4.6.31 Querying Custom Field Values

Function

This API is used to query custom field values.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/custom-field/query-custom-field

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Table 4-397 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** N/A **Range** N/A **Default Value** N/A
tracker_id	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-398 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Response result of querying the value of a custom field.
status	String	**Definition**: Status of the response body for querying custom fields. **Value range**: **success**: successful **error**: failed

Table 4-399 result

Parameter	Type	Description
custom_field	Array of **custom_field** objects	**Definition**: List of custom fields.

Table 4-400 custom_field

Parameter	Type	Description
tracker_list	Array of strings	**Definition**: List of custom fields. **Value range**: N/A
region	String	**Definition**: Region of the project. **Value range**: N/A
id	Integer	**Definition** Unique ID of a custom field. **Range** N/A

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Parameter	Type	Description
project_id	Integer	**Definition** ID of the project to which the custom field belongs. **Range** N/A
tracker_id	Integer	**Definition** Type ID of the work item to which a custom field belongs. **Range** **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
custom_field	String	**Definition**: Name of a custom field. **Value range**: N/A
type	String	**Definition**: Custom field type. **Value range**: N/A
name	String	**Definition**: Display name of a custom field. **Value range**: N/A
sort	Integer	**Definition**: Sequence number of a field, which is used to determine the field display sequence on the GUI. **Value range**: N/A
memo	String	**Definition**: Additional information about a custom field. **Value range**: N/A

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Parameter	Type	Description
created	String	**Definition**: Time when a custom field is created. Format: YYYY-MM-DD HH:mm:ss (Example: **2025-07-28 14:47:38**) **Value range**: N/A
modified	String	**Definition**: Time when a custom field is modified. Format: YYYY-MM-DD HH:mm:ss (DateTime format: **2025-07-28 14:47:38**) **Value range**: N/A
is_delete	Boolean	**Definition**: Whether a customized field is deleted. **Value range**: **true**: deleted **false**: not deleted

Status code: 400

Table 4-401 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v2/custom-field/query-custom-field?
project_id=5192de5eb435430c8cd41c6ae6028848&tracker_id=3
```

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Example Responses

Status code: 200


```
{
  "result" : {
    "custom_field" : [ {
      "tracker_list" : [ ],
      "region" : "example",
      "id" : 492316,
      "project_id" : 34883337,
      "tracker_id" : -2,
      "custom_field" : "custom_field16",
      "type" : "text",
      "name" : "Mandatory for test",
      "sort" : 1,
      "memo" : "",
      "created" : "2025-06-28 10:00:30",
      "modified" : "2025-06-28 10:00:30",
      "is_delete" : false
    } ]
  },
  "status" : "success"
}
```


Status code: 400


```
{
  "error_code" : "PM.02100011",
  "error_msg" : "No access permission."
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).
400	Error response indicating no permission.

Error Codes

See **Error Codes**.

4.6.32 Updating Work Items in Batches

Function

This API is used to update work items in batches.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v2/projects/{project_id}/issues/batch-update

Table 4-402 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Table 4-403 Query Parameters

Parameter	Mandatory	Type	Description
move	No	Boolean	**Description**: Whether to move issues during batch update. If the request does not contain the **move** parameter, the default value is **false**. **Value range**: **true**: move **false**: not move **Default value**: **false**
OperateType	Yes	String	**Definition**: Specifies the operation type, for example, **import** or **export**. If the **operate_type** parameter is not provided in the request, this parameter will be **null**. **Constraints**: A string of 32 characters consisting of letters and digits. **Range**: N/A **Default Value**: null
Domain-Id	No	String	**Definition** Tenant ID. You can query the tenant information of a user using the API for obtaining the current user information. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
category	No	String	**Description**: work item type, such as **RR**, **FE**, **IR**, and **TASK**. **Constraints**: **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
IsPlan	No	Boolean	**Definition**: Whether it is a plan issue. **Constraints**: N/A **Value range**: **true**: plan issue. **false**: not a plan issue. **Default value**: **false**

Request Parameters

Table 4-404 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-405 Request body parameters

Parameter	Mandatory	Type	Description
-	No	Object	Request parameter

Response Parameters

Status code: 200

None

Status code: 400

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Table 4-406 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-407 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v2/projects/5740964bd1164d569bf40258eb343726/issues/batch-update

{
  "id" : [ "1135270157030600704", "1135269726766313472", "1113411113095049216" ],
  "attribute" : {
    "priority" : "High"
  }
}
```

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Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "success" : [ {
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "operation_id" : "49a61374-0df5-42d4-94aa-2ddd0ed98fff",
      "id" : "1113411113095049216",
      "priority" : "High",
      "modified_date" : "1752722645053"
    }, {
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "operation_id" : "5261db89-4b4d-4ed0-986f-c861bf94e2ed",
      "id" : "1135269726766313472",
      "priority" : "High",
      "modified_date" : "1752722645171"
    }, {
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "operation_id" : "2324c0d3-a377-48f7-b869-558f12bda613",
      "id" : "1135270157030600704",
      "priority" : "High",
      "modified_date" : "1752722645275"
    } ],
    "failed" : [ ],
    "success_num" : 3,
    "fail_num" : 0,
    "cr_plan_issues" : [ ],
    "cr_update_issues" : [ ]
  } ]
}
```


Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request.
401	Incorrect or invalid authentication information.

Error Codes

See **Error Codes**.

4.7 Scrum Project Work Items

4.7.1 Uploading an Image

Function

This API is used to upload an image.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/{project_id}/img

Table 4-408 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-409 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-410 FormData parameters

Parameter	Mandatory	Type	Description
file	Yes	File	**Definition**: Image. **Constraints**: The maximum image size is 5 MB.

Response Parameters

Status code: 200

Table 4-411 Response body parameters

Parameter	Type	Description
img_id	String	**Definition**: Image ID. **Options**: N/A

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Parameter	Type	Description
img_url	String	**Definition**: Image URL. **Options**: N/A

Status code: 400

Table 4-412 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-413 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
POST https://{endpoint}/v2/99be3c6242d74ad180292a689f95d666/img

{
  "Key" : "file",
  "Value" : "test.png"
}
```

Example Responses

Status code: 200

```
{
  "img_id" : 1,
  "img_url" : "/v1/upload/0792b7d26cb74bd799cbae80063dc74a/202006/1591339394752881984.gif"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UploadIssueImgSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UploadIssueImgRequest request = new UploadIssueImgRequest();
        request.withProjectId("{project_id}");
        try {
            UploadIssueImgResponse response = client.uploadIssueImg(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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```
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UploadIssueImgRequest()
        request.project_id = "{project_id}"
        response = client.upload_issue_img(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UploadIssueImgRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.UploadIssueImg(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.2 Creating a Customized Field for a Work Item Type

Function

This API is used to customize fields for a work item type.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:custom:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v3/{project_id}/custom-fields

Table 4-414 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-415 Request body parameters

Parameter	Mandatory	Type	Description
memo	No	String	**Definition** Custom field description. **Constraints** N/A **Range** A string of 0 to 255 characters. **Default Value** N/A
name	Yes	String	**Definition** Custom field name. **Constraints** A string of 1 to 15 characters, including letters, digits, hyphens (-), and underscores (_). **Range** A string of 1 to 15 characters. **Default Value** N/A
options	No	String	**Definition** Optional values of a custom field. Use commas (,) to separate the values. This parameter is mandatory if **type** is **radio** or **checkbox**. **Constraints** 1 to 6,000 characters. **Range** A string of 1 to 6,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
scrum_type	No	String	**Definition** Work item type where the new custom field is used. **Constraints** N/A (The allowed values are defined in the range below.) **Range** • **Epic** • **Feature** • **Story** • **Task** • **Bug** **Default Value** N/A
type	Yes	String	**Definition**: Custom field type. **Constraints**: N/A **Value range**: • **textArea**: multi-line text **select**: drop-down list **radio**: radio button **text**: single-line text **checkbox**: check box **date**: date **time_date**: time that contains the hour and minute, displayed in the format of 2019/10/10 10:10) **number**: number **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-416 Response body parameters

Parameter	Type	Description
created	String	**Definition**: Creation time. **Options**: N/A
custom_field	String	**Definition**: Custom field. **Options**: N/A
id	Integer	**Definition**: Field ID. **Options**: N/A
identifier	String	**Definition**: Field UUID. **Options**: N/A
is_delete	Boolean	**Definition** Deleted or not. **Range** N/A
memo	String	**Definition** Field description. **Range** N/A
modified	String	**Definition**: Modification time **Options**: N/A
name	String	**Definition** Field name. **Range** N/A

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Parameter	Type	Description
options	String	**Definition** Field option. **Range** N/A
project_id	Integer	**Definition**: Project ID. **Options**: N/A
region	String	**Definition**: Region. **Options**: N/A
sort	Integer	**Definition**: Display order. **Options**: N/A
tracker_id	Integer	**Definition** Work item type ID. **Range** N/A
type	String	**Definition** Custom field type. **Range** N/A

Status code: 400

Table 4-417 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-418 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v3/0792b7d26cb74bd799cbae80063dc74a/custom-fields

{
  "memo" : "Description",
  "name" : "test",
  "options" : "0792b7d26cb74bd799cbae80063dc74a",
  "scrum_type" : "Story",
  "type" : "text"
}
```

Example Responses

Status code: 200

```
{
  "id" : 50611,
  "identifier" : "e8dbcc2c2f4f474f801834f8905c08f7",
  "project_id" : 527,
  "tracker_id" : -2,
```

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```
  "custom_field" : "custom_field20",
  "type" : "text",
  "name" : "4441",
  "sort" : 1,
  "created" : "2026-07-08 15:42:56",
  "modified" : "2026-07-08 15:42:56",
  "is_delete" : false,
  "region" : "roma-dg-7"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateCustomfieldsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateCustomfieldsRequest request = new CreateCustomfieldsRequest();
        request.withProjectId("{project_id}");
        CreateCustomfieldV1Req body = new CreateCustomfieldV1Req();
        body.withScrumType("Story");
        body.withMemo("Description");
        body.withOptions("0792b7d26cb74bd799cbae80063dc74a");
        body.withType("text");
        body.withName("test");
        request.withBody(body);
        try {
            CreateCustomfieldsResponse response = client.createCustomfields(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
```

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```
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateCustomfieldsRequest()
        request.project_id = "{project_id}"
        request.body = CreateCustomfieldV1Req(
            scrum_type="Story",
            memo="Description",
            options="0792b7d26cb74bd799cbae80063dc74a",
            type="text",
            name="test"
        )
        response = client.create_customfields(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

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```
    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateCustomfieldsRequest{}
    request.ProjectId = "{project_id}"
    request.Body = &model.CreateCustomfieldV1Req{
        ScrumType: "Story",
        Memo: "Description",
        Options: "0792b7d26cb74bd799cbae80063dc74a",
        Type: "text",
        Name: "test",
    }
    response, err := client.CreateCustomfields(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.7.3 Conducting Advanced Query of My To-Do Work Items

Function

This API is used to search my to-do list with the advanced query function.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/issues

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Request Parameters

Table 4-419 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-420 Request body parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Number of records on each page. **Constraints** 1–100 **Range** 0–100 **Default Value** N/A

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** Offset must be an integral multiple of **limit**. If **limit** equals **10**, then valid **offset** values are **0**, **10**, **20**, and so on. **Range** 0–10000 **Default Value** N/A
subject	No	String	**Definition** Search keyword. **Constraints** 1 to 100 non-whitespace characters. **Range** N/A **Default Value** N/A
created_on	No	String	**Definition** Time range for creating a work item. **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
updated_on	No	String	**Definition** Time range for updating a work item. **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A
closed_on	No	String	**Definition** Time range for ending a work item. **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A
start_date	No	String	**Definition** Time range for the estimated start time of a work item. **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
due_date	No	String	**Definition** Time range for the estimated end time of a work item. **Constraints** A string of 1 to 13 digits or an empty string. Use commas (,) to separate values. **Range** N/A **Default Value** N/A
tracker_id	No	String	**Definition** Work item type. **Constraints** A single digit. Use commas (,) to separate multiple values. **Range** Work item type enumeration: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default Value** N/A

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Parameter	Mandatory	Type	Description
status_id	No	String	**Definition** Work item status. **Constraints** 1 to 64 non-whitespace characters. **Range** • **1**: new • **2**: ongoing • **3**: solved • **4**: in testing • **5**: closed • **6**: rejected • Custom status. **Default Value** N/A
author_id	No	String	**Definition** ID of the work item creator (both the user digital ID and user UUID are supported). You can query user ID information using the API for **obtaining the current user information**. The returned **user_id** is the user UUID, and **user_num_id** is the digital ID of the user. **Constraints** A string of 1 to 6 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
developer_id	No	String	**Definition** ID of the work item developer (both the user digital ID and user UUID are supported). You can query user ID information using the API for **obtaining the current user information**. The returned **user_id** is the user UUID, and **user_num_id** is the digital ID of the user. **Constraints** A string of 1 to 6 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A
priority_id	No	String	**Definition** Work item priority ID. **Constraints** A single digit. Use commas (,) to separate multiple values. **Range** Options: **1**: low **2**: medium **3**: high **Default Value** N/A

Response Parameters

Status code: 200

Table 4-421 Response body parameters

Parameter	Type	Description
issue_list	Array of **issue_list** objects	**Definition**: Work item information list.

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Parameter	Type	Description
total	Integer	**Definition**: Total number of work items. **Options**: N/A

Table 4-422 issue_list

Parameter	Type	Description
actual_work_hours	Double	**Definition**: Actual workloads.
assigned_to	**SimpleUserIn** object	**Definition**: Handler.
author	**SimpleUserIn** object	**Definition**: Author.
closed_flag	Integer	**Definition**: Closing sign. **Options**: N/A
closeder	**SimpleUserIn** object	**Definition**: Closer.
created_on	String	**Definition**: Work item creation timestamp. **Options**: N/A
deleted	Boolean	**Definition**: Whether to delete the work item. The options are **true** (delete) and **false** (not delete). **Options**: N/A
developer	**SimpleUserIn** object	**Definition**: Developer.
domain	**domain** object	**Definition**: Domain information.

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Parameter	Type	Description
done_ratio	Integer	**Definition**: Work item completion rate. **Options**: N/A
due_date	String	**Definition**: Estimated end timestamp for a work item. **Options**: N/A
expected_work_hours	Double	**Definition**: Estimated workloads. **Options**: N/A
find_release_dev	String	**Definition**: Released version where the bug was found. **Options**: N/A
id	Integer	**Definition** Work item ID. **Range** N/A
is_watcher	Boolean	**Definition**: Whether to follow the work item. The options are **true** (follow) and **false** (not follow). **Options**: N/A
module	**module** object	**Definition**: Module information.
order	**order** object	**Definition**: Priority sequence information.
parent_issue	**parent_issue** object	**Definition**: Parent work item information.

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Parameter	Type	Description
parent_issue_id	Integer	**Definition** Parent work item ID. **Range** N/A
position	Double	**Definition**: Sorting value. **Options**: N/A
priority	**priority** object	**Definition**: Work item priority information.
project	**project** object	**Definition**: Project information.
release_dev	String	**Definition**: Release version. **Options**: N/A
severity	**severity** object	**Definition**: Severity information.
status	**status** object	**Definition**: Work item status information.
subject	String	**Definition**: Work item title. **Options**: N/A
tracker	**tracker** object	**Definition**: Work item type information.
updated_on	String	**Definition**: Work item update timestamp. **Options**: N/A

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Table 4-423 SimpleUserIn

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A
identifier	String	**Definition** User UUID. **Range** N/A
name	String	**Definition**: Username. **Options**: N/A
image_id	String	**Definition** User avatar ID. **Range** N/A
first_name	String	**Definition** Username. **Range** N/A
last_name	String	**Definition** Username. **Range** N/A

Table 4-424 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Options**: N/A

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Parameter	Type	Description
name	String	**Definition**: Domain name. **Options**: N/A

Table 4-425 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** N/A
name	String	**Definition**: Module name. **Options**: N/A
path_name	String	**Definition**: Module path name. **Options**: N/A

Table 4-426 order

Parameter	Type	Description
id	Integer	**Definition**: Priority sequence ID. **Options**: N/A
name	String	**Definition**: Priority sequence name. **Options**: N/A

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Table 4-427 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** N/A
subject	String	**Definition**: Parent work item title. **Options**: N/A

Table 4-428 priority

Parameter	Type	Description
id	Integer	**Definition**: Work item priority ID. **Options**: N/A
name	String	**Definition**: Work item priority name. **Options**: N/A

Table 4-429 project

Parameter	Type	Description
id	Integer	**Definition** Project ID. **Range** N/A
identifier	String	**Definition** Project UUID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition**: Project name. **Options**: N/A
type	String	**Definition**: Project type. **Value range**: **scrum**: Scrum project **normal**: IPD project **xboard**: Kanban project

Table 4-430 severity

Parameter	Type	Description
id	Integer	**Definition**: Severity ID. **Options**: N/A
name	String	**Definition**: Severity name. **Options**: N/A

Table 4-431 status

Parameter	Type	Description
id	Integer	**Definition**: Work item status ID. **Options**: N/A
name	String	**Definition**: Work item priority name. **Options**: N/A

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Table 4-432 tracker

Parameter	Type	Description
id	Integer	**Definition**: Work item type ID. **Options**: N/A
name	String	**Definition**: Work item type name. **Options**: N/A

Status code: 400

Table 4-433 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-434 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/issues

{
  "offset" : "0",
  "limit" : "15",
  "status_id" : "5",
  "due_date" : "1682265600000,1682265600000"
}
```

Example Responses

Status code: 200

```
{
  "issue_list" : [ {
    "id" : 1377838,
    "subject" : "fe111",
    "parent_issue_id" : 1377837,
    "parent_issue" : {
      "id" : 1377837,
      "subject" : "epic111"
    },
    "project" : {
      "name" : "Scrum0630001",
      "id" : 527,
      "identifier" : "ddb260aa69b848599747eadfa632a40f",
      "type" : "scrum"
    },
    "done_ratio" : 0,
    "expected_work_hours" : 0,
    "actual_work_hours" : 1,
    "tracker" : {
      "id" : 6,
      "name" : "Feature"
    },
    "order" : {
      "id" : 1,
      "name" : "1.0"
    },
    "severity" : {
      "id" : 12,
      "name" : "Minor"
    },
    "priority" : {
      "id" : 2,
      "name" : "Medium"
    },
    "domain" : { },
    "position" : 1377838,
    "module" : { },
    "assigned_to" : {
      "id" : 83,
```

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```
    "name" : "CodeArtsReq_creq_chm1",
    "identifier" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
    "image_id" : "photo01.png",
    "first_name" : "creq_chm1",
    "last_name" : "creq_chm1"
   },
   "author" : {
    "id" : 83,
    "name" : "CodeArtsReq_creq_chm1",
    "identifier" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
    "image_id" : "photo01.png",
    "author_nick_name" : "creq_chm1",
    "first_name" : "creq_chm1",
    "last_name" : "creq_chm1"
   },
   "developer" : {
    "id" : 0
   },
   "closeder" : {
    "id" : 0
   },
   "status" : {
    "id" : 1,
    "name" : "Initial"
   },
   "is_watcher" : false,
   "closed_flag" : 0,
   "deleted" : false,
   "created_on" : "1782788317000",
   "updated_on" : "1782788317000"
  } ],
  "total" : 1
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class SearchIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
```

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```
            .withCredential(auth)
            .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
            .build();
        SearchIssuesRequest request = new SearchIssuesRequest();
        ListWorkTableIssueRequestV4RequestBody body = new ListWorkTableIssueRequestV4RequestBody();
        body.withStatusId("5");
        body.withDueDate("1682265600000,1682265600000");
        body.withLimit(15);
        body.withOffset(0);
        request.withBody(body);
        try {
            SearchIssuesResponse response = client.searchIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = SearchIssuesRequest()
        request.body = ListWorkTableIssueRequestV4RequestBody(
            status_id="5",
            due_date="1682265600000,1682265600000",
            limit=15,
            offset=0
        )
        response = client.search_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.SearchIssuesRequest{}
    statusIdListWorkTableIssueRequestV4RequestBody:= "5"
    dueDateListWorkTableIssueRequestV4RequestBody:= "1682265600000,1682265600000"
    limitListWorkTableIssueRequestV4RequestBody:= int32(15)
    offsetListWorkTableIssueRequestV4RequestBody:= int32(0)
    request.Body = &model.ListWorkTableIssueRequestV4RequestBody{
        StatusId: &statusIdListWorkTableIssueRequestV4RequestBody,
        DueDate: &dueDateListWorkTableIssueRequestV4RequestBody,
        Limit: &limitListWorkTableIssueRequestV4RequestBody,
        Offset: &offsetListWorkTableIssueRequestV4RequestBody,
    }
    response, err := client.SearchIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.4 Obtaining the Stay Duration of a Specified Work Item

Function

This API is used to obtain the duration that a work item has remained in a certain status.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/issues/duration

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Request Parameters

Table 4-435 Request body parameters

Parameter	Mandatory	Type	Description
issue_ids	Yes	Array of strings	**Definition** Work item ID character string list, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints** A string of 1 to 10 digits. **Range** N/A **Default Value** N/A
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-436 Response body parameters

Parameter	Type	Description
data	Array of **data** objects	**Definition** ID of a successful (typically unclosed) work item. **Range** N/A
fails	Array of strings	**Definition** ID of a failed (typically unclosed) work item. **Range** N/A
total	Integer	**Definition**: Number of work items whose stay duration is summed up. **Value range**: N/A
total_stay_time	Long	**Definition**: Sum of stay duration (unit: second). **Value range**: N/A

Table 4-437 data

Parameter	Type	Description
id	String	**Definition** Work item ID strings. **Range** N/A
stay_time	Long	**Definition**: Stay duration (unit: second). **Value range**: N/A

Status code: 400

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Table 4-438 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-439 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/issues/duration

{
  "project_id" : "78deb5314e674251996513b0a790384b",
  "issue_ids" : [ "6330741", "1212123" ]
}
```

Example Responses

Status code: 200

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```
{
  "fails" : [ "1212123" ],
  "data" : [ {
    "id" : "6330741",
    "stay_time" : 1238172
  } ],
  "total_stay_time" : 1238172,
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListSpecIssueStayTimesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListSpecIssueStayTimesRequest request = new ListSpecIssueStayTimesRequest();
        ListSpecIssueStayTimesRequestBody body = new ListSpecIssueStayTimesRequestBody();
        List<String> listbodyIssueIds = new ArrayList<>();
        listbodyIssueIds.add("6330741");
        listbodyIssueIds.add("1212123");
        body.withIssueIds(listbodyIssueIds);
        body.withProjectId("78deb5314e674251996513b0a790384b");
        request.withBody(body);
        try {
            ListSpecIssueStayTimesResponse response = client.listSpecIssueStayTimes(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
```

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```
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListSpecIssueStayTimesRequest()
        listIssueIdsbody = [
            "6330741",
            "1212123"
        ]
        request.body = ListSpecIssueStayTimesRequestBody(
            issue_ids=listIssueIdsbody,
            project_id="78deb5314e674251996513b0a790384b"
        )
        response = client.list_spec_issue_stay_times(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
```

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```
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListSpecIssueStayTimesRequest{}
    var listIssueIdsbody = []string{
        "6330741",
        "1212123",
    }
    projectIdListSpecIssueStayTimesRequestBody:= "78deb5314e674251996513b0a790384b"
    request.Body = &model.ListSpecIssueStayTimesRequestBody{
        IssueIds: &listIssueIdsbody,
        ProjectId: &projectIdListSpecIssueStayTimesRequestBody,
    }
    response, err := client.ListSpecIssueStayTimes(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.7.5 Querying Labor Hours by User (for Multiple Projects)

Function

This API is used to query labor hours by user (for multiple projects).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/work-hours

Request Parameters

Table 4-440 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	No	String	**Definition**: Work start time. The format is YYYY-MM-DD. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
end_time	No	String	**Definition**: Work end time. The format is YYYY-MM-DD. **Constraints**: N/A **Options**: N/A **Default value**: N/A
limit	No	Integer	**Definition** Number of records displayed on each page (max.: 500). **Constraints** N/A **Range** 1–500 **Default Value** N/A
offset	No	Integer	**Definition** Pagination offset, indicating the start position of the query result set. The zero-based index mechanism is used. The value must be an integer multiple of the value of limit to ensure correct alignment and continuity of the pagination result set. **Constraints** N/A **Range** 0–10000 **Default Value** N/A

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Parameter	Mandatory	Type	Description
project_ids	No	Array of strings	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
user_ids	No	Array of strings	**Definition** List of user IDs. You can obtain the user ID using the API for obtaining the current user information. The value of **user_id** in the response body is the user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
work_hours_dates	No	String	**Definition**: Work date. The date format is YYYY-MM-DD. Separate multiple values by commas (,). Example: **2020-05-02,2020-03-02,2021-09-01** **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
work_hours_types	No	String	**Definition** Workload type. Separate values by commas (,). Example: **21, 22, 23** **Constraints** N/A **Range** • **21**: R&D and design • **22**: backend development • **23**: frontend development (web) • **24**: frontend development (applet) • **25**: frontend development (app) • **26**: test and verification • **27**: bug fixing • **28**: UI design • **29**: meeting • **30**: public affairs • **31**: training • **32**: research • **33**: other • **34**: replacement leave • Custom work type, which can be obtained through the **/v4/projects/{project_id}/work-hours-type** API. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-441 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number. **Options**: N/A
work_hours	Array of **work_hours** objects	**Definition**: Workload list.

Table 4-442 work_hours

Parameter	Type	Description
closed_time	String	**Definition**: End time of a work item. **Options**: N/A
created_time	String	**Definition**: Creation time of a work item. **Options**: N/A
issue_id	Integer	**Definition** Work item ID. **Range** N/A
issue_type	String	**Definition**: Work item type. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
nick_name	String	**Definition**: User alias. **Options**: N/A

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Parameter	Type	Description
project_name	String	**Definition**: Project name. **Options**: N/A
subject	String	**Definition**: Work item title. **Options**: N/A
summary	String	**Definition**: Workload details. **Options**: N/A
user_id	String	**Definition** User ID. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A
work_date	String	**Definition**: Work date. **Options**: N/A
work_hours_created_time	String	**Definition**: Workload creation time. **Options**: N/A
work_hours_num	String	**Definition**: Workloads. **Options**: N/A
work_hours_type_name	String	**Definition**: Work type. **Options**: N/A

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Parameter	Type	Description
work_hours_updated_time	String	**Definition**: Workload update time. **Options**: N/A

Status code: 400

Table 4-443 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-444 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
POST https://{endpoint}/v4/projects/work-hours

{
  "end_time" : "2020-08-14",
  "limit" : 1,
  "offset" : 0,
  "project_ids" : [ "e2da96a5d2c845e284f0ad47f8ca8cb2", "a2da96a5d2c845e284f0ad47f8ca8cef" ]
}
```

Example Responses

Status code: 200

```
{
  "work_hours" : [ {
    "project_name" : "Project name",
    "nick_name" : "User alias.",
    "user_id" : "09d75cdd9a00d44d2f17c01875483f26",
    "user_name" : "Username",
    "work_date" : "2020-02-19",
    "work_hours_num" : "2.0",
    "summary" : "XXXXX was done.",
    "work_hours_type_name" : "Backend development",
    "issue_id" : 123456,
    "issue_type" : "Story",
    "subject" : "Work Item Title",
    "created_time" : "2019-12-17",
    "closed_time" : "2019-12-20",
    "work_hours_created_time" : "2019-12-17 09:00:00",
    "work_hours_updated_time" : "2019-12-20 15:00:00"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListProjectWorkHoursSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectWorkHoursRequest request = new ListProjectWorkHoursRequest();
        ListProjectWorkHoursRequestBody body = new ListProjectWorkHoursRequestBody();
        List<String> listbodyProjectIds = new ArrayList<>();
        listbodyProjectIds.add("e2da96a5d2c845e284f0ad47f8ca8cb2");
        listbodyProjectIds.add("a2da96a5d2c845e284f0ad47f8ca8cef");
        body.withLimit(1);
        body.withOffset(0);
        body.withEndTime("2020-08-14");
        body.withProjectIds(listbodyProjectIds);
        request.withBody(body);
        try {
            ListProjectWorkHoursResponse response = client.listProjectWorkHours(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectWorkHoursRequest()
        listProjectIdsbody = [
            "e2da96a5d2c845e284f0ad47f8ca8cb2",
            "a2da96a5d2c845e284f0ad47f8ca8cef"
        ]
        request.body = ListProjectWorkHoursRequestBody(
            limit=1,
```

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```
            offset=0,
            end_time="2020-08-14",
            project_ids=listProjectIdsbody
        )
        response = client.list_project_work_hours(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectWorkHoursRequest{}
    var listProjectIdsbody = []string{
        "e2da96a5d2c845e284f0ad47f8ca8cb2",
        "a2da96a5d2c845e284f0ad47f8ca8cef",
    }
    endTimeListProjectWorkHoursRequestBody:= "2020-08-14"
    request.Body = &model.ListProjectWorkHoursRequestBody{
        Limit: int32(1),
        Offset: int32(0),
        EndTime: &endTimeListProjectWorkHoursRequestBody,
        ProjectIds: &listProjectIdsbody,
    }
    response, err := client.ListProjectWorkHours(request)
```

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```
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.6 Downloading Images

Function

This API is used to download images.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:download	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

GET /v4/projects/{project_id}/image-file

Table 4-445 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-446 Query Parameters

Parameter	Mandatory	Type	Description
image_uri	Yes	String	**Definition** Image URI. You can obtain the image URI using the **Querying Work Item Details** API. If the returned description data contains image information, the string that matches the URI format in description is the image URI. **Constraints** Image URI, in the format of **/v1/upload/{1 to 32 lowercase letters and digits}/{6-digit number}/{file name}.{extension}**. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-447 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-448 Response body parameters

Parameter	Type	Description
-	File	**Definition**: Binary file.

Status code: 400

Table 4-449 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-450 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/2c42a6d37ccc4197bf0b3dbe91be021a/image-file?image_uri=/v1/upload/2c42a6d37ccc4197bf0b3dbe91be021a/202209/1662003438194761550.png
```

Example Responses

Status code: 200

None

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission"
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DownloadImageFileSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DownloadImageFileRequest request = new DownloadImageFileRequest();
        request.withProjectId("{project_id}");
        try {
            DownloadImageFileResponse response = client.downloadImageFile(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DownloadImageFileRequest()
        request.project_id = "{project_id}"
        response = client.download_image_file(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.DownloadImageFileRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.DownloadImageFile(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	**Definition**: Binary file.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.7 Creating Work Items

Function

This API is used to create work items.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/issue

Table 4-451 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-452 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-453 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	**Definition** Actual workloads, automatically calculated by summing detailed workloads in a work item and its child work items. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Parameter	Mandatory	Type	Description
assigned_id	No	Integer	**Definition** Digital ID of the handler. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** ≥ 0 **Default Value** N/A
begin_time	No	String	**Definition** Start time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A
description	No	String	**Definition** Work item description. **Constraints** Can be left blank. **Range** A string of 1 to 200,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
developer_id	No	Integer	**Definition** Digital ID of a developer. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
domain_id	No	Integer	**Definition** Domain ID. **Constraints** One or more numeric digits. **Range** • **14**: Performance. • **15**: Function. • **16**: Reliability. • **17**: Network security. • **18**: Maintainability. • **19**: Other DFX. • **20**: Availability. • Custom domain. **Default Value** N/A
done_ratio	No	Integer	**Definition** Work item completion rate. **Constraints** If the input is 0, the completion rate of the work item is 0%. If the input is 100, the completion rate of the work item is 100%. **Range** 0–100 **Default Value** N/A

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Parameter	Mandatory	Type	Description
end_time	No	String	**Definition** End time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A
expected_work_hours	No	Double	**Definition**: Estimated workload. **Constraints**: This field can be left blank. **Options**: Minimum length: 0 characters. **Default value**: N/A
iteration_id	No	Integer	**Definition** Sprint ID, which can be obtained using the API for **obtaining the sprint list of a specified project**. The value of the **id** field in the response message body is the sprint ID. **Constraints** ≥ 1 digit **Range** Min. 0 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
module_id	No	Integer	**Definition** Module ID, which is the value of **id** in the response body returned by the API for **querying the project module list**. **Constraints** ≥ 1 digit **Range** Min. 0 characters. **Default Value** N/A
name	Yes	String	**Definition** Title. **Constraints** Can be left blank. **Range** Length: 1 to 512 characters **Default Value** N/A
new_custom_fields	No	Array of **NewCustomField** objects	**Definition**: Custom field. **Constraints**: N/A
parent_issue_id	No	Integer	**Definition** Parent work item ID. **Constraints** This parameter is mandatory when you create a child work item. Obtained the value from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response body is the work item ID. **Range** ≥ 0 **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority_id	Yes	Integer	**Definition** Priority. **Constraints** N/A **Range** • **1**: Low. • **2**: Medium. • **3**: High. **Default Value** N/A
severity_id	No	Integer	**Definition** Severity. **Constraints** N/A **Range** • **10**: critical • **11**: major • **12**: minor • **13**: info **Default Value** N/A
status_id	No	Integer	**Definition** Status ID. **Constraints** One or more numeric digits. **Range** • **1**: New. • **2**: In progress. • **3**: Resolved. • **4**: Testing. • **5**: Closed. • **6**: Rejected. • Custom status. **Default Value** N/A

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Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	**Definition** Work item type. **Constraints** An epic can only be the parent work item of a feature. A feature can only be the parent work item of a story. A story can only be the parent work item of a task or bug. **Range** • **2**: task • **3**: bug • **5**: epic • **6**: feature • **7**: story **Default Value** N/A
assigned_cc	No	String	**Definition** CC user UUID. You can confirm the user UUID of a specific project member by calling the **Obtaining the Member List of a Specified Project** API. **Constraints** Multiple CC user UUIDs are concatenated by commas (,). **Range** N/A **Default Value** N/A

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Table 4-454 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustom-Fields.xml) API. **Constraints**: This field can be left blank. **Options**: N/A **Default value**: N/A
field_name	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-455 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	**Definition** Actual workloads. **Range** N/A
assigned_cc_user	Array of **IssueUser** objects	**Definition**: Cc recipient.
assigned_user	**IssueUser** object	**Definition** Handler.
begin_time	String	**Definition**: Start time: YYYY-MM-DD. **Options**: N/A
creator	**IssueUser** object	**Definition**: Creator.

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Parameter	Type	Description
custom_fields	Array of **CustomField** objects	**Definition** Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
developer	**IssueUser** object	**Definition**: Developer.
domain	**domain** object	**Definition** **14**: performance **15**: function **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability
done_ratio	Integer	**Definition** Work item progress value. **Range** N/A
end_time	String	**Definition**: End time: YYYY–MM–DD. **Options**: N/A
expected_work_hours	Double	**Definition**: Estimated workload. **Options**: N/A
id	Integer	**Definition** Work item ID. **Range** N/A
iteration	**iteration** object	**Definition**: Sprint.
module	**module** object	**Definition**: Module.
new_custom_fields	Array of **NewCustomField** objects	**Definition**: Custom attribute value.

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Parameter	Type	Description
parent_issue	**parent_issue** object	**Definition**: Parent work item.
priority	**priority** object	**Definition** Work item priority. **1**: low **2**: medium **3**: high
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition** Work item status. **1**: new **2**: ongoing **3**: solved **4**: testing **5**: closed **6**: rejected
tracker	**tracker** object	**Definition** Work item type. **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-456 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-457 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

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Table 4-458 domain

Parameter	Type	Description
id	Integer	**Definition** Domain ID. **Range** N/A
name	String	**Definition**: Domain. **Options**: N/A

Table 4-459 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** N/A
name	String	**Definition**: Sprint name. **Options**: N/A

Table 4-460 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** N/A
name	String	**Definition**: Module. **Options**: N/A

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Table 4-461 NewCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API.
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

Table 4-462 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** N/A
name	String	**Definition**: Parent work item. **Options**: N/A

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Table 4-463 priority

Parameter	Type	Description
id	Integer	**Definition** Priority ID. **Range** N/A
name	String	**Definition**: Priority. **Options**: N/A

Table 4-464 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
project_name	String	**Definition**: Project name. **Value range**: N/A
project_num_id	Integer	**Definition** Digital ID of a project. **Range** ≥ 0

Table 4-465 severity

Parameter	Type	Description
id	Integer	**Definition** Severity ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition**: Severity. **Options**: N/A

Table 4-466 status

Parameter	Type	Description
id	Integer	**Definition** Status ID. **Range** N/A
name	String	**Definition**: Status name. **Options**: N/A

Table 4-467 tracker

Parameter	Type	Description
id	Integer	**Definition** Type ID. **Range** N/A
name	String	**Definition**: Type name. **Options**: N/A

Status code: 400

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Table 4-468 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issue

{
  "assigned_id" : 4091,
  "begin_time" : "2018-1-31",
  "description" : "",
  "developer_id" : 4091,
  "end_time" : "2018-07-05",
  "iteration_id" : 11302238,
  "name" : "test",
  "parent_issue_id" : 1679822,
  "priority_id" : 2,
  "severity_id" : 10,
  "status_id" : 1,
  "tracker_id" : 3,
  "assigned_cc" : "a360371833bf4c558f796fd707b44daf,0b02aa23f93b4309b319cb1db9b24c42"
}
```

Example Responses

Status code: 200

```
{
  "id" : 1377843,
  "name" : "testTask",
  "done_ratio" : 0,
  "tracker" : {
    "id" : 2,
    "name" : "Task"
  },
  "priority" : {
    "id" : 1,
    "name" : "Low"
  },
  "security_level" : null,
  "order" : {
    "id" : 1,
    "name" : "1"
  },
  "severity" : {
    "id" : 12,
    "name" : "Minor"
  },
  "status" : {
```

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```
    "id" : 1,
    "name" : "Initial"
  },
  "release_dev" : "",
  "find_release_dev" : null,
  "env" : null,
  "updated_time" : null,
  "begin_time" : "",
  "end_time" : "",
  "project" : {
    "project_num_id" : 527,
    "project_id" : "ddb260aa69b848599747eadfa632a40f",
    "project_name" : "Scrum0630001"
  },
  "parent_issue" : null,
  "module" : null,
  "domain" : null,
  "iteration" : null,
  "story_point" : null,
  "expected_work_hours" : 0,
  "actual_work_hours" : 0,
  "created_time" : null,
  "custom_fields" : [ ],
  "new_custom_fields" : null,
  "assigned_cc_user" : null,
  "assigned_user" : {
    "user_id" : null,
    "user_num_id" : null,
    "id" : 83,
    "name" : "CodeArtsReq_creq_chm1",
    "nick_name" : "creq_chm1",
    "first_name" : "creq_chm1"
  },
  "creator" : {
    "user_id" : null,
    "user_num_id" : null,
    "id" : 83,
    "name" : "CodeArtsReq_creq_chm1",
    "nick_name" : "creq_chm1",
    "first_name" : "creq_chm1"
  },
  "developer" : null,
  "closed_time" : null,
  "tag_list" : null
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateIssueV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

```
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIssueV4Request request = new CreateIssueV4Request();
        request.withProjectId("{project_id}");
        CreateIssueRequestV4 body = new CreateIssueRequestV4();
        body.withTrackerId(3);
        body.withStatusId(1);
        body.withSeverityId(10);
        body.withPriorityId(2);
        body.withParentIssueId(1679822);
        body.withName("test");
        body.withIterationId(11302238);
        body.withEndTime("2018-07-05");
        body.withDeveloperId(4091);
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        body.withAssignedId(4091);
        request.withBody(body);
        try {
            CreateIssueV4Response response = client.createIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)
```

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```
    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIssueV4Request()
        request.project_id = "{project_id}"
        request.body = CreateIssueRequestV4(
            tracker_id=3,
            status_id=1,
            severity_id=10,
            priority_id=2,
            parent_issue_id=1679822,
            name="test",
            iteration_id=11302238,
            end_time="2018-07-05",
            developer_id=4091,
            description="",
            begin_time="2018-1-31",
            assigned_id=4091
        )
        response = client.create_issue_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
```

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```
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIssueV4Request{}
    request.ProjectId = "{project_id}"
    statusIdCreateIssueRequestV4:= int32(1)
    severityIdCreateIssueRequestV4:= int32(10)
    parentIssueIdCreateIssueRequestV4:= int32(1679822)
    iterationIdCreateIssueRequestV4:= int32(11302238)
    endTimeCreateIssueRequestV4:= "2018-07-05"
    developerIdCreateIssueRequestV4:= int32(4091)
    descriptionCreateIssueRequestV4:= ""
    beginTimeCreateIssueRequestV4:= "2018-1-31"
    assignedIdCreateIssueRequestV4:= int32(4091)
    request.Body = &model.CreateIssueRequestV4{
        TrackerId: int32(3),
        StatusId: &statusIdCreateIssueRequestV4,
        SeverityId: &severityIdCreateIssueRequestV4,
        PriorityId: int32(2),
        ParentIssueId: &parentIssueIdCreateIssueRequestV4,
        Name: "test",
        IterationId: &iterationIdCreateIssueRequestV4,
        EndTime: &endTimeCreateIssueRequestV4,
        DeveloperId: &developerIdCreateIssueRequestV4,
        Description: &descriptionCreateIssueRequestV4,
        BeginTime: &beginTimeCreateIssueRequestV4,
        AssignedId: &assignedIdCreateIssueRequestV4,
    }
    response, err := client.CreateIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response for a successful work item creation request.
400	Response for a failed API request.

Error Codes

See **Error Codes**.

4.7.8 Obtaining the Work Item Completion Rate

Function

This API is used to obtain the completion rate of work items.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issue-completion-rate

Table 4-469 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-470 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-471 Response body parameters

Parameter	Type	Description
issue_completion_rates	Array of **issue_completion_rates** objects	**Definition**: Completion rate of different types of work items.

Table 4-472 issue_completion_rates

Parameter	Type	Description
issue_status	**issue_status** object	**Definition**: Number of work items in different statuses.

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Parameter	Type	Description
tracker_id	Integer	**Definition** Work item type ID. **Range** **1** (requirement) **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-473 issue_status

Parameter	Type	Description
closed_num	Integer	**Definition**: Number of closed work items. **Options**: N/A
new_num	Integer	**Definition**: Number of new work items. **Options**: N/A
process_num	Integer	**Definition**: Number of ongoing work items. **Options**: N/A
rejected_num	Integer	**Definition**: Number of rejected work items. **Options**: N/A
solved_num	Integer	**Definition**: Number of resolved work items. **Options**: N/A

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Parameter	Type	Description
test_num	Integer	**Definition**: Number of work items in testing. **Options**: N/A

Status code: 400

Table 4-474 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-475 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue-completion-rate
```

Example Responses

Status code: 200

```
{
  "issue_completion_rates" : [ {
    "issue_status" : {
      "closed_num" : 0,
      "new_num" : 0,
      "process_num" : 0,
      "rejected_num" : 0,
      "solved_num" : 0,
      "test_num" : 0
    },
    "tracker_id" : 3
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIssueCompletionRateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIssueCompletionRateRequest request = new ShowIssueCompletionRateRequest();
        request.withProjectId("{project_id}");
        try {
            ShowIssueCompletionRateResponse response = client.showIssueCompletionRate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
```

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```
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIssueCompletionRateRequest()
        request.project_id = "{project_id}"
        response = client.show_issue_completion_rate(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

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```
    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIssueCompletionRateRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowIssueCompletionRate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.9 Obtaining Historical Records of Work Items

Function

This API is used to obtain historical records of work items.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issue/{issue_id}/records

Table 4-476 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

Table 4-477 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** Offset must be an integral multiple of **limit**. If **limit** equals **10**, then valid **offset** values are **0**, **10**, **20**, and so on. **Range** Min.: 0. **Default Value** 0

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **1,000**. **Default value**: 10
journalizedType	No	String	**Definition**: Historical record type. **Constraints**: N/A **Value range**: **Issue** and **Iteration** **Default value**: **Issue**

Request Parameters

Table 4-478 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-479 Response body parameters

Parameter	Type	Description
records	Array of **IssueRecordV4** objects	**Definition**: Work item record details.
total	Integer	**Definition**: Total number of operation records. **Options**: N/A

Table 4-480 IssueRecordV4

Parameter	Type	Description
created_time	Long	**Definition**: Time when an operation record is created. **Options**: N/A
details	Array of **details** objects	**Definition**: Operation record.
id	Integer	**Definition**: Operation record ID. **Options**: N/A
user	**user** object	**Definition**: User who performs an operation on a work item.

Table 4-481 details

Parameter	Type	Description
id	Integer	**Definition**: Operation record ID. **Options**: N/A

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Parameter	Type	Description
name	String	**Definition**: Operation field name. **Options**: N/A
new_value	String	**Definition**: Current value. **Options**: N/A
old_value	String	**Definition**: Last record. **Options**: N/A
operation	String	**Definition** Operation. **Range** Modify, create, delete, copy, import, commit code, import update, batch edit, archive, unarchive, associate with a case, disassociate from a case, associate with a branch, associate with a work item, disassociate from a work item, and end sprint.
property	String	**Definition**: Operation attribute. **Options**: N/A

Table 4-482 user

Parameter	Type	Description
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** 32–digit UUID of a user. **Range** N/A

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Parameter	Type	Description
user_name	String	**Definition**: Login name. **Options**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Options**: N/A

Status code: 400

Table 4-483 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-484 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue/3458/records
```

Example Responses

Status code: 200

```
{
  "records" : [ {
    "id" : 1234,
    "created_time" : 1617764919000,
    "user" : {
      "user_num_id" : 4091,
      "user_name" : "demo_user_name",
      "nick_name" : "aaa",
      "user_id" : "a360371833bf4c558f796fd707b44daf"
    },
    "details" : [ {
      "property" : 1,
      "old_value" : 1,
      "new_value" : 2,
      "operation" : "Batch edit",
      "id" : 3597,
      "name" : "Title"
    } ]
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssueRecordsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

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```
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueRecordsV4Request request = new ListIssueRecordsV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListIssueRecordsV4Response response = client.listIssueRecordsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueRecordsV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_issue_records_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
```

```
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueRecordsV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListIssueRecordsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.10 Querying Work Items of a Project

Function

Work item type ID, which is a pagination parameter. This API is used to query project work items by work item ID, pagination parameter, and creation time.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues

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Table 4-485 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-486 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value is a string of 0 to 11 digits. If the first digit is **0**, the value can only be **0**. If the first digit ranges from **1** to **9**, the value can contain a maximum of 11 digits. **Range** Min.: 0. **Default Value** 0

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Page size (1 to 100). **Constraints** N/A **Range** 1–100 **Default Value** 100
tracker_id	No	Integer	**Definition**: Work item type. **Constraints**: Work item type options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: Minimum value: **2**. Maximum value: **7**. **Default value**: N/A
created_time_interval	No	String	**Definition** Work item creation duration (start and end time). **Constraints** The two 13-digit timestamps are separated by a comma (,). The timestamps are accurate to milliseconds. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
updated_time_interval	No	String	**Definition** Work item update duration (start and end time). **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-487 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-488 Response body parameters

Parameter	Type	Description
issues	Array of **IssueItemSfV4** objects	**Definition**: Work item list information.
total	Integer	**Definition**: Total number of work items. **Options**: N/A

Table 4-489 IssueItemSfV4

Parameter	Type	Description
id	Integer	**Definition** Work item ID. **Range** N/A
actual_work_hours	Double	**Definition**: Actual workloads. **Options**: N/A
assigned_user	**IssueUser** object	**Definition** Handler. **Range** N/A
author	**IssueUser** object	**Definition**: Author.
begin_time	Long	**Definition**: Start time of a work item. **Options**: N/A
closed_time	Long	**Definition**: Time when a work item was closed. **Options**: N/A

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Parameter	Type	Description
created_time	Long	**Definition**: Creation time. **Options**: N/A
custom_feilds	Array of **CustomFeildRecord** objects	**Definition**: Custom property.
developer	**IssueUser** object	**Definition**: Developer.
discover_version	String	**Definition**: Version where the bug was found. **Options**: N/A
domain	**domain** object	**Definition**: ID: Domain. **14**: performance **15**: function **16**: reliability **17**: cyber security **18**: maintainability **19**: other design for X (DFX) **20**: availability
done_ratio	Integer	**Definition**: Work item progress value. **Options**: N/A
end_time	Long	**Definition**: End time of a work item. **Options**: N/A
expected_work_hours	Double	**Definition**: Estimated workloads. **Options**: N/A
iteration	**iteration** object	**Definition**: Sprint.

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Parameter	Type	Description
module	**module** object	**Definition**: Module.
order	Integer	**Definition** Priority order. **Range** 1–100
parent_issue_id	Integer	**Definition** Parent work item ID. **Range** N/A
priority	**priority** object	**Definition**: Work item priority.
release_version	String	**Definition**: Release version. **Options**: N/A
root_issue_id	Integer	**Definition** Root work item ID. **Range** N/A
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.

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Parameter	Type	Description
story_point	**story_point** object	**Definition**: Story point ID. **1**: 0 **2**: 1/2 **3**: 1 **4**: 2 **5**: 3 **6**: 5 **7**: 8 **8**: 13 **9**: 21 **10**: 40 **11**: 80 **12**: 100 **13**: ∞ **14**: ?
subject	String	**Definition**: Work item title. **Options**: N/A
tracker	**tracker** object	**Definition**: Work item type. **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
updated_time	Long	**Definition**: Work item update time. **Options**: N/A
env	**IssueAttribute** object	**Definition** Environment. **Range** N/A

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Parameter	Type	Description
find_release_dev	String	**Definition** Version number. **Range** N/A
release_dev	String	**Definition** Release version number. **Range** N/A
tag_list	Array of **TagRelation** objects	**Definition** Tag list. **Range** N/A

Table 4-490 CustomFeildRecord

Parameter	Type	Description
key	String	**Definition**: Custom work item property **Options**: N/A
name	String	**Definition**: Custom work item name. **Options**: N/A
value	String	**Definition**: Custom work item value. **Options**: N/A

Table 4-491 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-492 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Options**: N/A
name	String	**Definition**: Domain. **Options**: N/A

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Table 4-493 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** N/A
name	String	**Definition**: Sprint name. **Options**: N/A

Table 4-494 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** N/A
name	String	**Definition**: Module. **Options**: N/A

Table 4-495 priority

Parameter	Type	Description
id	Integer	**Definition**: Priority ID. **Options**: N/A
name	String	**Definition**: Priority. **Options**: N/A

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Table 4-496 severity

Parameter	Type	Description
id	Integer	**Definition**: Severity ID. **Options**: N/A
name	String	**Definition**: Severity. **Options**: N/A

Table 4-497 status

Parameter	Type	Description
id	Integer	**Definition**: Status ID. **Options**: N/A
name	String	**Definition**: Status name. **Options**: N/A

Table 4-498 story_point

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Options**: N/A
name	String	**Definition**: Story point. **Options**: N/A

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Table 4-499 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. **Options**: N/A
name	String	**Definition**: Type name. **Options**: N/A

Table 4-500 IssueAttribute

Parameter	Type	Description
id	Integer	**Definition** Environment ID. **Range** N/A
name	String	**Definition** Environment name. **Range** N/A

Table 4-501 TagRelation

Parameter	Type	Description
relationId	Integer	**Definition** Association ID. **Range** N/A
tagId	Integer	**Definition** Tag ID. **Range** N/A

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Parameter	Type	Description
region	String	**Definition** Region. **Range** N/A
name	String	**Definition** Tag name. **Range** N/A

Status code: 400

Table 4-502 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-503 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
```

Example Responses

Status code: 200

```
{
  "total" : 1,
  "issues" : [ {
    "id" : 1377841,
    "subject" : "testAPI",
    "security_level" : null,
    "release_version" : "",
    "developer" : {
      "user_id" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "user_num_id" : 83,
      "nick_name" : "creq_chm1",
      "name" : "creq_chm1"
    },
    "assigned_user" : {
      "user_id" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "user_num_id" : 83,
      "nick_name" : "creq_chm1",
      "name" : "creq_chm1"
    },
    "author" : {
      "user_id" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "user_num_id" : 83,
      "nick_name" : "creq_chm1",
      "name" : "creq_chm1"
    },
    "discover_version" : "",
    "iteration" : null,
    "story_point" : null,
    "status" : {
      "id" : 1,
      "name" : "Initial"
    },
    "module" : null,
    "priority" : {
      "id" : 2,
      "name" : "Medium"
    },
    "severity" : {
      "id" : 12,
      "name" : "Minor"
    },
    "domain" : null,
    "tracker" : {
      "id" : 3,
      "name" : "Bug"
    },
```

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```
    "updated_time" : 1782809865000,
    "created_time" : 1782809865000,
    "begin_time" : 1765900800000,
    "end_time" : 1767110400000,
    "closed_time" : null,
    "order" : 1,
    "parent_issue_id" : 1377839,
    "root_issue_id" : 1377837,
    "expected_work_hours" : 0,
    "actual_work_hours" : 0,
    "done_ratio" : 0,
    "env" : null,
    "custom_feilds" : [ ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssuesSfV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssuesSfV4Request request = new ListIssuesSfV4Request();
        request.withProjectId("{project_id}");
        try {
            ListIssuesSfV4Response response = client.listIssuesSfV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
```

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```
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssuesSfV4Request()
        request.project_id = "{project_id}"
        response = client.list_issues_sf_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
```

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```
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssuesSfV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListIssuesSfV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.11 Conducting Advanced Query of Work Items

Function

This API is used to query work items based on filter criteria.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/issues

Table 4-504 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-505 Request body parameters

Parameter	Mandatory	Type	Description
subject	No	String	**Definition** Work item title. **Constraints** 1 to 200,000 characters. **Range** N/A **Default Value** N/A
issue_ids	No	Array of integers	**Definition** Digital ID of a work item. **Constraints** A numeric string of 1 to 10 characters. **Range** 0 to 9999999999 **Default Value** N/A
assigned_ids	No	Array of strings	**Definition** Handler ID. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Parameter	Mandatory	Type	Description
closed_time_interval	No	String	**Definition** Work item end duration (start and end time). The value is a Unix timestamp in milliseconds. Examples: **1576114296000** and **1576114396000** **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** A string of 1 to 13 digits. **Default Value** N/A
created_time_interval	No	String	**Definition** Work item creation duration (start and end time). The value is a Unix timestamp in milliseconds. Examples: **1576114296000** and **1576114396000** **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** A string of 1 to 13 digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
creator_ids	No	Array of strings	**Definition** Creator ID. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
custom_fields	No	Array of **custom_fields** objects	**Definition**: Custom fields of a Scrum work item. You can query custom fields of a Scrum work item using the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
developer_ids	No	Array of strings	**Definition** Developer ID. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Parameter	Mandatory	Type	Description
domain_ids	No	Array of integers	**Definition** Domain ID. The options are as follows: **14**: performance **15**: performance **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability **Constraints** ≥ 1 digit **Range** 14, 15, 16, 17, 18, 19, 20 **Default Value** N/A
done_ratios	No	Array of integers	**Definition** Work item completion percentage. For example, **20** indicates a completion of 20%. **Constraints** The value is a number ranging from 0 to 100. **Range** 0–100 **Default Value** N/A
include_deleted	No	Boolean	**Definition** Whether deleted work items are included. **Constraints** N/A (The allowed values are defined in the range below.) **Range** **true** or **false** **Default Value** N/A

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Parameter	Mandatory	Type	Description
iteration_ids	No	Array of integers	**Definition** Sprint ID. You can obtain the sprint list of a project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
limit	No	Integer	**Definition**: Number of advanced work items displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **100**. **Default value**: 100
module_ids	No	Array of integers	**Definition** Module ID, which is the value of **module_id** in the response body returned by the **Querying the Project Module List** API. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value is a string of 0 to 11 digits. If the first digit is **0**, the value can only be **0**. If the first digit ranges from **1** to **9**, the value can contain a maximum of 11 digits. **Range** Min.: 0. **Default Value** 0
priority_ids	No	Array of integers	**Definition** Priority. The options are as follows: **1**: low **2**: medium **3**: high **Constraints** ≥ 1 digit **Range** 1, 2, 3 **Default Value** N/A
severity_ids	No	Array of integers	**Definition** Severity. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Constraints** ≥ 1 digit **Range** 10, 11, 12, 13 **Default Value** N/A

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Parameter	Mandatory	Type	Description
status_ids	No	Array of integers	**Definition** Status ID. **Constraints** ≥ 1 digit **Range** • **1**: new • **2**: ongoing • **3**: resolved • **4**: testing • **5**: closed • **6**: rejected **Default Value** N/A

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Parameter	Mandatory	Type	Description
story_point_ids	No	Array of integers	**Definition** Story point ID. A story point is an agile method for estimating workloads. It can be regarded as the development cost, which takes into account the required efforts for story delivery, development complexity, and risks. Story point values corresponding to story point IDs: **1**: 0 **2**: 1/2 **3**: 1 **4**: 2 **5**: 3 **6**: 5 **7**: 8 **8**: 13 **9**: 21 **10**: 40 **11**: 80 **12**: 100 **Constraints** ≥ 1 digit **Range** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 **Default Value** N/A

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Parameter	Mandatory	Type	Description
tracker_ids	No	Array of integers	**Definition** Work item type. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Constraints** ≥ 1 digit **Range** 2, 3, 5, 6, 7 **Default Value** N/A
updated_time_interval	No	String	**Definition** Work item update duration (start and end time). The value is a Unix timestamp in milliseconds. Examples: **1576114296000** and **1576114396000** **Constraints** A string of 1 to 13 digits. The first digit ranges from 1 to 9. Use commas (,) to separate values. **Range** A string of 1 to 13 digits. **Default Value** N/A

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Table 4-506 custom_fields

Parameter	Mandatory	Type	Description
custom_field	No	String	**Definition**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustom-Fields.xml) API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A
value	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-507 Response body parameters

Parameter	Type	Description
issues	Array of **ListIssueItemRes-ponse** objects	**Definition**: Work item list. **Options**: N/A

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Parameter	Type	Description
total	Integer	**Definition** Total. **Range** ≥ 0

Table 4-508 ListIssueItemResponse

Parameter	Type	Description
actual_work_hours	Double	**Definition** Actual workloads. **Range** ≥ 0
assigned_cc_user	Array of **IssueUser** objects	**Parameter description**: Cc recipient.
assigned_user	**IssueUser** object	**Parameter description**: Handler.
begin_time	String	**Parameter description**: Estimated start time. The format is YYYY-MM-DD. **Value range**: N/A
closed_time	String	**Definition**: Closing time. The format is YYYY-MM-DD. **Value range**: N/A
created_time	String	**Parameter description**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Value range**: N/A
creator	**IssueUser** object	**Parameter description**: Creator.
custom_fields	Array of **CustomField** objects	**Parameter description**: Custom property value, which is not recommended. Refer to the **new_custom_fields** field.

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Parameter	Type	Description
developer	**IssueUser** object	**Parameter description**: Developer.
domain	**domain** object	**Definition**: Domain.
done_ratio	Integer	**Definition** Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Range** 0–100
end_time	String	**Definition** Estimated end time. The format is YYYY-MM-DD. **Range** N/A
expected_work_hours	Double	**Definition** Estimated workloads. **Range** Min.: 0.
id	Integer	**Definition** Work item ID. **Range** ≥ 0
iteration	**iteration** object	**Definition** Sprint.
module	**module** object	**Definition** Module.
name	String	**Definition**: Title. **Options**: N/A
new_custom_fields	Array of **NewCustomField** objects	**Definition**: Custom property value.
parent_issue	**parent_issue** object	**Definition**: Parent work item.

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Parameter	Type	Description
priority	**priority** object	**Definition**: Work item priority.
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.
tracker	**tracker** object	**Definition**: Work item type.
updated_time	String	**Definition**: Update time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
find_release_dev	String	**Definition** Version number. **Range** N/A
release_dev	String	**Definition** Release version number. **Range** N/A
env	**IssueAttribute** object	**Definition** Environment. **Range** N/A
tag_list	Array of **TagRelation** objects	**Definition** Tag list. **Range** N/A
deleted	Boolean	**Definition**: Deleted or not. The options are **true** (deleted) and **false** (not deleted). **Options**: **true** and **false**

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Table 4-509 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-510 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A

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Parameter	Type	Description
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

Table 4-511 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. The options are as follows: **14**: performance **15**: performance **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability **Value range**: **14**, **15**, **16**, **17**, **18**, **19**, and **20**
name	String	**Definition**: Domain name. **Options**: N/A

Table 4-512 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** ≥ 0

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Parameter	Type	Description
name	String	**Definition**: Sprint name. **Options**: N/A

Table 4-513 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** ≥ 0
name	String	**Definition**: Module. **Options**: N/A

Table 4-514 NewCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API.
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

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Parameter	Type	Description
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

Table 4-515 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** Min.: 0.
name	String	**Definition**: Parent work item. **Options**: N/A

Table 4-516 priority

Parameter	Type	Description
id	Integer	**Definition** Priority ID. The options are as follows: **1**: low **2**: medium **3**: high **Range** • **1**: low • **2**: medium • **3**: high

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Parameter	Type	Description
name	String	**Definition** Priority. **Range** • Low • Medium • High

Table 4-517 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
project_name	String	**Definition**: Project name. **Value range**: N/A
project_num_id	Integer	**Definition** Digital ID of a project. **Range** ≥ 0

Table 4-518 severity

Parameter	Type	Description
id	Integer	**Definition**: Severity ID. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Options**: **10**, **11**, **12**, and **13**

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Parameter	Type	Description
name	String	**Definition**: Severity. **Options**: N/A

Table 4-519 status

Parameter	Type	Description
id	Integer	**Definition**: Status ID. The options are as follows: **1**: initial **2**: in progress **3**: solved **4**: testing **5**: closed **6**: rejected **Options**: **1**, **2**, **3**, **4**, **5**, and **6**
name	String	**Definition**: Status name. **Options**: N/A

Table 4-520 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**

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Parameter	Type	Description
name	String	**Definition**: Type name. **Options**: N/A

Table 4-521 IssueAttribute

Parameter	Type	Description
id	Integer	**Definition** Environment ID. **Range** N/A
name	String	**Definition** Environment name. **Range** N/A

Table 4-522 TagRelation

Parameter	Type	Description
relationId	Integer	**Definition** Association ID. **Range** N/A
tagId	Integer	**Definition** Tag ID. **Range** N/A
region	String	**Definition** Region. **Range** N/A
name	String	**Definition** Tag name. **Range** N/A

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Status code: 400

Table 4-523 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-524 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues

{
  "status_ids" : [ 1 ]
}
```

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Example Responses

Status code: 200


```
{
  "issues" : [ {
    "actual_work_hours" : 0,
    "assigned_cc_user" : [ {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    } ],
    "assigned_user" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "begin_time" : "2020-09-12",
    "created_time" : "2020-09-13 14:40:11",
    "creator" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "custom_fields" : [ {
      "name" : "customField16",
      "value" : "Multi-select checkbox",
      "new_name" : "custom_field16"
    } ],
    "new_custom_fields" : [ {
      "custom_field" : "custom_field16",
      "field_name" : "field_name",
      "value" : "Checkbox 1, Checkbox 2"
    } ],
    "developer" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "domain" : {
      "id" : 14,
      "name" : "Performance"
    },
    "done_ratio" : 0,
    "end_time" : "2020-09-19",
    "expected_work_hours" : 9,
    "id" : 4567,
    "project" : {
      "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
      "project_name" : "testDemo",
      "project_num_id" : 78953
    },
    "iteration" : {
      "id" : 456,
      "name" : "Sprint 1"
    },
    "module" : {
      "id" : 456,
      "name" : "Project"
    },
    "name" : "Internationalization improvement",
    "parent_issue" : {
      "id" : 123,
      "name" : "Querying project members"
    },
    "priority" : {
      "id" : 1,
      "name" : "Low"
    },
```


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```
    "severity" : {
      "id" : 12,
      "name" : "Minor"
    },
    "status" : {
      "id" : 1,
      "name" : "New"
    },
    "tracker" : {
      "id" : 7,
      "name" : "story"
    },
    "updated_time" : "2020-09-14 14:40:11",
    "closed_time" : "2020-09-15 14:40:11",
    "deleted" : false
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListIssuesV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssuesV4Request request = new ListIssuesV4Request();
        request.withProjectId("{project_id}");
        ListIssueRequestV4 body = new ListIssueRequestV4();
        List<Integer> listbodyStatusIds = new ArrayList<>();
        listbodyStatusIds.add(1);
        body.withStatusIds(listbodyStatusIds);
        request.withBody(body);
        try {
            ListIssuesV4Response response = client.listIssuesV4(request);
            System.out.println(response.toString());
```

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```
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssuesV4Request()
        request.project_id = "{project_id}"
        listStatusIdsbody = [
            1
        ]
        request.body = ListIssueRequestV4(
            status_ids=listStatusIdsbody
        )
        response = client.list_issues_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)
```

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```
func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssuesV4Request{}
    request.ProjectId = "{project_id}"
    var listStatusIdsbody = []int32{
        int32(1),
    }
    request.Body = &model.ListIssueRequestV4{
        StatusIds: &listStatusIdsbody,
    }
    response, err := client.ListIssuesV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.7.12 Deleting Scrum Work Items in Batches

Function

This API is used to batch delete work items.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/issues

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Table 4-525 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-526 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-527 Request body parameters

Parameter	Mandatory	Type	Description
issue_ids	Yes	Array of integers	**Definition** Work item ID array, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** Max. 100 characters. **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-528 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-529 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues

{
  "issue_ids" : [ 1660084, 1660085 ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchDeleteIssuesV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

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```
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteIssuesV4Request request = new BatchDeleteIssuesV4Request();
        request.withProjectId("{project_id}");
        BatchDeleteIssuesRequestV4 body = new BatchDeleteIssuesRequestV4();
        List<Integer> listbodyIssueIds = new ArrayList<>();
        listbodyIssueIds.add(1660084);
        listbodyIssueIds.add(1660085);
        body.withIssueIds(listbodyIssueIds);
        request.withBody(body);
        try {
            BatchDeleteIssuesV4Response response = client.batchDeleteIssuesV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeleteIssuesV4Request()
        request.project_id = "{project_id}"
```

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```
        listIssueIdsbody = [
            1660084,
            1660085
        ]
        request.body = BatchDeleteIssuesRequestV4(
            issue_ids=listIssueIdsbody
        )
        response = client.batch_delete_issues_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchDeleteIssuesV4Request{}
    request.ProjectId = "{project_id}"
    var listIssueIdsbody = []int32{
        int32(1660084),
        int32(1660085),
    }
    request.Body = &model.BatchDeleteIssuesRequestV4{
        IssueIds: listIssueIdsbody,
    }
    response, err := client.BatchDeleteIssuesV4(request)
```

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```
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.13 Querying Customized Fields of Scrum Work Items

Function

This API is used to query the options of custom fields of Scrum work items. Fields that meet the **custom_fields** or **names** condition are returned. If neither of the two conditions is used, all custom fields are returned.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:custom:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/issues/custom-fields

Table 4-530 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-531 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-532 Request body parameters

Parameter	Mandatory	Type	Description
custom_fields	No	Array of strings	**Definition** Custom field. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
included_not_in_use	No	Boolean	**Definition**: Whether unused custom fields are included in the query result. By default, only custom fields that are in use are queried. **Constraints**: **false** (not included) **true** (included) **Options**: N/A **Default value**: N/A
names	No	Array of strings	**Definition**: Custom field name. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-533 Response body parameters

Parameter	Type	Description
datas	Array of **IssueCustomField** objects	**Definition**: Return data of custom fields.

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Table 4-534 IssueCustomField

Parameter	Type	Description
create_time	String	**Definition**: Creation time of a custom field. **Options**: N/A
custom_field	String	**Definition**: Custom field. **Options**: N/A
name	String	**Definition**: Display meaning of a custom field. **Options**: N/A
options	String	**Definition**: Value options for custom fields. Separate multiple values by commas (,). **Options**: N/A
tracker_ids	Array of integers	**Definition** Work item types that use the field. **Range** **2** (task) • **3** (bug) • **5** (epic) • **6** (feature) • **7** (story) • Empty array (the custom field is not used by any work item type)

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Parameter	Type	Description
type	String	**Definition** Custom field type. **Range** **textArea**: multi-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. **text**: single-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. **number**: number whose value range is set by users during custom field creation. **time_date**: The date is accurate to year, month, and day, and **time_date** is accurate to hour, minute, and second. The value is a long integer timestamp. **checkbox**: check box, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters and a maximum of 60 options can be customized. **radio**: radio box, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized. **user**: radio box, a member in the project. **multiChoiceUsers**: check box, a member in the project.

Status code: 400

Table 4-535 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-536 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/issues/custom-fields

{
  "included_not_in_use" : true,
  "names" : [ "Drop-down list demo" ]
}
```

Example Responses

Status code: 200

```
{
  "datas" : [ {
    "name" : "selectName",
    "custom_field" : "custom_field16",
    "options" : "selectName1,selectName2",
    "type" : "ratio",
    "tracker_ids" : [ 7 ],
    "create_time" : "2023-05-17T09:50:04+08:00"
```

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```
 } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListIssueCustomFieldsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueCustomFieldsRequest request = new ListIssueCustomFieldsRequest();
        request.withProjectId("{project_id}");
        ListIssueCustomFieldsRequestBody body = new ListIssueCustomFieldsRequestBody();
        List<String> listbodyNames = new ArrayList<>();
        listbodyNames.add("Drop-down list demo");
        body.withIncludedNotInUse(true);
        body.withNames(listbodyNames);
        request.withBody(body);
        try {
            ListIssueCustomFieldsResponse response = client.listIssueCustomFields(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueCustomFieldsRequest()
        request.project_id = "{project_id}"
        listNamesbody = [
            "Drop-down list demo"
        ]
        request.body = ListIssueCustomFieldsRequestBody(
            included_not_in_use=True,
            names=listNamesbody
        )
        response = client.list_issue_custom_fields(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueCustomFieldsRequest{}
    request.ProjectId = "{project_id}"
    var listNamesbody = []string{
        "Drop-down list demo",
    }
    includedNotInUseListIssueCustomFieldsRequestBody:= true
    request.Body = &model.ListIssueCustomFieldsRequestBody{
        IncludedNotInUse: &includedNotInUseListIssueCustomFieldsRequestBody,
        Names: &listNamesbody,
    }
    response, err := client.ListIssueCustomFields(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.7.14 Querying Historical Records of All Work Items in a Project

Function

This API is used to query historical records of all work items in a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/records

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Table 4-537 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-538 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value must be an integral multiple of **limit**. **Range** Min.: 0. **Default Value** N/A
limit	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–100 **Default Value** N/A

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Parameter	Mandatory	Type	Description
operated_time_interval	No	String	**Definition**: Work item change query duration (start and end time). **Constraints**: N/A **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-539 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-540 Response body parameters

Parameter	Type	Description
records	Array of **IssueAttrHistoryRecord** objects	**Definition**: Historical records.

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Parameter	Type	Description
total	Integer	**Definition**: Total number. **Options**: N/A

Table 4-541 IssueAttrHistoryRecord

Parameter	Type	Description
field_key	String	**Definition**: Operation field. **Options**: N/A
field_name	String	**Definition**: Name of the operation field. **Options**: N/A
id	Long	**Definition** Historical record ID. **Range** N/A
issue_id	Long	**Definition** Work item ID. **Range** N/A
new_value	String	**Definition**: Value after modification. The value is a JSON character string. **Options**: N/A
old_value	String	**Definition**: Value before modification. The value is a JSON character string. **Options**: N/A

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Parameter	Type	Description
operated_time	Long	**Definition**: Time when the change occurs. **Options**: N/A
operation	String	**Definition**: Operation type. **Options**: Create Modify Delete
operator	**IssueRecordUser** object	**Definition**: Operator.
property	String	**Definition**: Changed property. **Options**: N/A

Table 4-542 IssueRecordUser

Parameter	Type	Description
name	String	**Definition** Username with the tenant name: Tenant name_Username. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
user_id	String	**Definition** User UUID. **Range** N/A

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Parameter	Type	Description
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A

Status code: 400

Table 4-543 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-544 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/records
```

Example Responses

Status code: 200

```
{
  "records" : [ {
    "field_key" : "status",
    "field_name" : "Status.",
    "id" : 789,
    "issue_id" : 123,
    "new_value" : "{\"id\": \"2\", \"name\": \"Developing\"}",
    "old_value" : "{\"id\":\"1\", \"name\":\"New\"}",
    "operated_time" : 1601175640000,
    "operation" : "Modify",
    "operator" : {
      "user_id" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "user_num_id" : 4091,
      "nick_name" : "Tom",
      "name" : "demo_user_name"
    },
    "property" : "attr"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectIssuesRecordsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectIssuesRecordsV4Request request = new ListProjectIssuesRecordsV4Request();
```

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```
        request.withProjectId("{project_id}");
        try {
            ListProjectIssuesRecordsV4Response response = client.listProjectIssuesRecordsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectIssuesRecordsV4Request()
        request.project_id = "{project_id}"
        response = client.list_project_issues_records_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectIssuesRecordsV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectIssuesRecordsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.7.15 Querying the Work Item Transfer Configuration of a Scrum Project

Function

This API is used to query work item transition configurations of a Scrum project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workflow:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/workflow/config

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Table 4-545 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-546 Query Parameters

Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	**Definition** Work item type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Constraints** ≥ 1 digit **Range** 2, 3, 5, 6, 7 **Default Value** N/A

Request Parameters

None

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Response Parameters

Status code: 200

Table 4-547 Response body parameters

Parameter	Type	Description
workflows	Array of **ScrumStatusFlowVo** objects	**Definition**: Transition data.

Table 4-548 ScrumStatusFlowVo

Parameter	Type	Description
direct_to	Array of **ScrumStatusFlowDirectToVo** objects	**Definition**: Status transition information.
id	String	**Definition** UUID of the transition data. **Range** N/A
name	String	**Definition**: Status name. **Options**: N/A
status_id	Integer	**Definition**: Status ID. **Options**: N/A

Table 4-549 ScrumStatusFlowDirectToVo

Parameter	Type	Description
enabled	Boolean	**Definition** Whether to enable transition. **Range** **true**: enabled **false**: disabled

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Parameter	Type	Description
id	String	**Definition** UUID of the transition data. **Range** N/A
name	String	**Definition**: Status. **Options**: N/A
status_id	Integer	**Definition** Status ID. **Range** ≥ 0

Status code: 400

Table 4-550 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-551 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/workflow/config?
tracker_id=7
```

Example Responses

Status code: 200

```
{
  "workflows" : [ {
    "id" : "2e645dbab6874a3eafa77ef06b97ea75",
    "name" : "New",
    "status_id" : 1,
    "direct_to" : [ {
      "id" : "2e645dbab6874a3eafa77ef06b97ea75",
      "status_id" : 2,
      "name" : "New",
      "enabled" : true
    } ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIssuesWrokFlowConfigSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

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```
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIssuesWrokFlowConfigRequest request = new ShowIssuesWrokFlowConfigRequest();
        request.withProjectId("{project_id}");
        try {
            ShowIssuesWrokFlowConfigResponse response = client.showIssuesWrokFlowConfig(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIssuesWrokFlowConfigRequest()
        request.project_id = "{project_id}"
        response = client.show_issues_wrok_flow_config(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

```
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIssuesWrokFlowConfigRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowIssuesWrokFlowConfig(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.16 Querying Work Item Details

Function

This API is used to query work item details.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/{issue_id}

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Table 4-552 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-553 Response body parameters

Parameter	Type	Description
accessories	Array of **IssueAccessory** objects	**Definition**: Attachment list.
actual_work_hours	Double	**Definition**: Actual workloads. **Options**: Minimum value: **0**.
assigned_cc_user	Array of **IssueUser** objects	**Definition**: Cc recipient.
assigned_user	**IssueUser** object	**Definition**: Handler.
begin_time	String	**Definition**: Estimated start time. The format is YYYY-MM-DD. **Options**: N/A
closed_time	String	**Definition**: Closing time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
created_time	String	**Definition**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
creator	**IssueUser** object	**Definition**: Creator.
custom_fields	Array of **CustomField** objects	**Definition**: Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
description	String	**Definition**: Work item description. **Options**: N/A

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Parameter	Type	Description
developer	**IssueUser** object	**Definition**: Developer.
domain	**domain** object	**Parameter description**: Domain.
done_ratio	Integer	**Definition** Work item completion percentage. For example, **20** indicates a completion of 20%. **Range** 0–100
end_time	String	**Definition**: Estimated end time. The format is YYYY-MM-DD. **Options**: N/A
expected_work_hours	Double	**Parameter description**: Estimated workloads. **Options**: Minimum value: **0**.
id	Integer	**Definition** Work item ID. **Range** 0 to 9999999999
iteration	**iteration** object	**Parameter description**: Sprint.
module	**module** object	**Parameter description**: Module.
name	String	**Parameter description**: Title. **Options**: N/A
order	**IssueOrder** object	**Definition**: Sorting order.
parent_issue	**parent_issue** object	**Definition**: Parent work item.

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Parameter	Type	Description
priority	**priority** object	**Definition**: Work item priority.
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.
story_point	**story_point** object	**Definition**: Story point.
tracker	**tracker** object	**Definition**: Work item type.
updated_time	String	**Parameter description**: Update time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
new_custom_fields	Array of **IssueDetailCustomField** objects	**Parameter description**: Custom property value.
find_release_dev	String	**Definition** Version number. **Range** N/A
release_dev	String	**Definition** Release version number. **Range** N/A
env	**IssueAttribute** object	**Definition** Environment. **Range** N/A
tag_list	Array of **TagRelation** objects	**Definition** Tag list. **Range** N/A

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Table 4-554 IssueAccessory

Parameter	Type	Description
id	Integer	**Definition** Primary key ID. **Range** N/A
project_id	String	**Definition** Project ID. **Range** N/A
container_id	Integer	**Definition** Container ID. **Range** N/A
attachment_id	Integer	**Definition** Attachment ID. **Range** N/A
container_type	String	**Definition** Container type. **Range** Issue.
created_time	String	**Definition** Time when the attachment was created. The value is in the format of YYYY-MM-DD HH:MM:SS. **Range** N/A
creator_id	String	**Definition** Creator user UUID. **Range** N/A
creator_num_id	Integer	**Definition**: Digital ID of the creator. **Options**: N/A

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Parameter	Type	Description
digest	String	**Definition**: Abstract. **Options**: N/A
disk_directory	String	**Definition**: Attachment path. **Options**: N/A
disk_file_name	String	**Definition**: Attachment name. **Options**: N/A
file_name	String	**Definition**: Name of the file to be uploaded. **Options**: N/A
issue_id	Integer	**Definition**: Work item ID. **Options**: N/A

Table 4-555 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A

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Parameter	Type	Description
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-556 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

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Table 4-557 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. The options are as follows: **14**: performance **15**: function **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability **Value range**: **14**, **15**, **16**, **17**, **18**, **19**, and **20**
name	String	**Parameter description**: Domain name. **Options**: N/A

Table 4-558 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** Min.: 0.
name	String	**Parameter description**: Sprint name. **Options**: N/A

Table 4-559 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** Min.: 0.

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Parameter	Type	Description
name	String	**Parameter description**: Module name. **Options**: N/A

Table 4-560 IssueOrder

Parameter	Type	Description
id	Integer	**Definition**: Sequence ID. **Options**: Minimum value: **0**.
name	String	**Definition**: Sequence value. **Options**: N/A

Table 4-561 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** Min.: 0.
name	String	**Parameter description**: Parent work item name. **Options**: N/A

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Table 4-562 priority

Parameter	Type	Description
id	Integer	**Parameter description**: Priority ID. The options are as follows: **1**: low **2**: medium **3**: high **Options**: **1**, **2**, and **3**
name	String	**Parameter description**: Priority. **Options**: N/A

Table 4-563 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
project_name	String	**Definition**: Project name. **Value range**: N/A
project_num_id	Integer	**Definition** Digital ID of a project. **Range** ≥ 0

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Table 4-564 severity

Parameter	Type	Description
id	Integer	**Parameter description**: Severity ID. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Options**: **10**, **11**, **12**, and **13**
name	String	**Definition**: Severity. **Options**: N/A

Table 4-565 status

Parameter	Type	Description
id	Integer	**Parameter description**: Status ID. The options are as follows: **1**: initial **2**: in progress **3**: solved **4**: testing **5**: closed **6**: rejected **Options**: **1**, **2**, **3**, **4**, **5**, and **6**
name	String	**Parameter description**: Status name. **Options**: N/A

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Table 4-566 story_point

Parameter	Type	Description
id	Integer	**Definition** Story point ID. A story point is an agile method for estimating workloads. It can be regarded as the development cost, which takes into account the required efforts for story delivery, development complexity, and risks. Story point values corresponding to story point IDs: **1**: 0 **2**: 1/2 **3**: 1 **4**: 2 **5**: 3 **6**: 5 **7**: 8 **8**: 13 **9**: 21 **10**: 40 **11**: 80 **12**: 100 **Range** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
name	String	**Definition**: Story point name. **Options**: N/A

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Table 4-567 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**
name	String	**Parameter description**: Type name. **Options**: N/A

Table 4-568 IssueDetailCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API.
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

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Parameter	Type	Description
description	String	**Definition**: Custom field description. **Options**: N/A
field_type	String	**Definition**: Custom field type. **Value range**: • **textArea**: multi-line text **text**: single-line text **select**: drop-down list **number**: number **time_date**: date **checkbox**: check box **radio**: radio button

Table 4-569 IssueAttribute

Parameter	Type	Description
id	Integer	**Definition** Environment ID. **Range** N/A
name	String	**Definition** Environment name. **Range** N/A

Table 4-570 TagRelation

Parameter	Type	Description
relationId	Integer	**Definition** Association ID. **Range** N/A

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Parameter	Type	Description
tagId	Integer	**Definition** Tag ID. **Range** N/A
region	String	**Definition** Region. **Range** N/A
name	String	**Definition** Tag name. **Range** N/A

Status code: 400

Table 4-571 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-572 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

Example Responses

Status code: 200


```
{
  "id" : 1377841,
  "name" : "testAPI",
  "done_ratio" : 0,
  "tracker" : {
    "id" : 3,
    "name" : "Bug"
  },
  "priority" : {
    "id" : 2,
    "name" : "Medium"
  },
  "security_level" : null,
  "order" : {
    "id" : 1,
    "name" : "1"
  },
  "severity" : {
    "id" : 12,
    "name" : "Minor"
  },
  "status" : {
    "id" : 1,
    "name" : "Initial"
  },
  "release_dev" : "",
  "find_release_dev" : "",
  "env" : null,
  "updated_time" : "2026-06-30 16:57:45",
  "begin_time" : "2025-12-17",
  "end_time" : "2025-12-31",
  "project" : {
    "project_num_id" : 527,
    "project_id" : "ddb260aa69b848599747eadfa632a40f",
    "project_name" : "Scrum0630001"
  },
  "parent_issue" : {
    "id" : 1377839,
    "name" : "story111"
```


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```
 },
 "module" : null,
 "domain" : null,
 "iteration" : null,
 "story_point" : null,
 "expected_work_hours" : 0,
 "actual_work_hours" : 0,
 "created_time" : "2026-06-30 16:57:45",
 "custom_fields" : [ ],
 "new_custom_fields" : [ ],
 "assigned_cc_user" : null,
 "assigned_user" : {
   "user_id" : null,
   "user_num_id" : null,
   "id" : 83,
   "name" : "CodeArtsReq_creq_chm1",
   "nick_name" : "creq_chm1",
   "first_name" : "creq_chm1"
 },
 "creator" : {
   "user_id" : null,
   "user_num_id" : null,
   "id" : 83,
   "name" : "CodeArtsReq_creq_chm1",
   "nick_name" : "creq_chm1",
   "first_name" : "creq_chm1"
 },
 "developer" : {
   "user_id" : null,
   "user_num_id" : null,
   "id" : 83,
   "name" : "CodeArtsReq_creq_chm1",
   "nick_name" : "creq_chm1",
   "first_name" : "creq_chm1"
 },
 "closed_time" : null,
 "tag_list" : null,
 "accessories" : null,
 "description" : "<h1 class=\"ql-align-center\">aaaaaaaa</h1>"
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIssueV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
```

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```
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIssueV4Request request = new ShowIssueV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ShowIssueV4Response response = client.showIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIssueV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.show_issue_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIssueV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ShowIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.17 Updating a Work Item

Function

This API is used to update a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v4/projects/{project_id}/issues/{issue_id}

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Table 4-573 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Request Parameters

Table 4-574 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	**Definition**: Actual workloads. **Constraints**: N/A **Options**: Minimum value: **0**. **Default value**: N/A
assigned_id	No	Integer	**Definition** Digital ID of the handler. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
begin_time	No	String	**Definition**: Start time. The format is YYYY-MM-DD. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Description. **Constraints**: N/A **Options**: N/A **Default value**: N/A
developer_id	No	Integer	**Definition** Developer ID. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
domain_id	No	Integer	**Definition** Domain ID. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
done_ratio	No	Integer	**Definition** Work item completion percentage. For example, **20** indicates a completion of 20%. **Constraints** The value is a number ranging from 0 to 100. **Range** 0–100 **Default Value** N/A

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Parameter	Mandatory	Type	Description
end_time	No	String	**Definition**: End time. The format is YYYY-MM-DD. **Constraints**: N/A **Options**: N/A **Default value**: N/A
expected_work_hours	No	Double	**Definition**: Estimated workloads. **Constraints**: N/A **Options**: Minimum value: **0**. **Default value**: N/A
iteration_id	No	Integer	**Definition** Sprint ID. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
module_id	No	Integer	**Definition** Module ID. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Title. **Constraints**: N/A **Options**: N/A **Default value**: N/A
new_custom_fields	No	Array of **NewCustomField** objects	**Definition**: Custom fields of a Scrum work item. You can obtain custom fields of a Scrum work item using the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A
parent_issue_id	No	Integer	**Definition** Parent work item ID. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority_id	No	Integer	**Definition** Priority. The options are as follows: **1**: low **2**: medium **3**: high **Constraints** ≥ 1 digit **Range** 1, 2, 3 **Default Value** N/A
severity_id	No	Integer	**Definition** Severity. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Constraints** ≥ 1 digit **Range** 10, 11, 12, 13 **Default Value** N/A

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Parameter	Mandatory	Type	Description
status_id	No	Integer	**Definition** Status ID. The options are as follows: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected **Constraints** ≥ 1 digit **Range** 1, 2, 3, 4, 5, 6 **Default Value** N/A
tracker_id	No	Integer	**Definition** Work item type. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Constraints** ≥ 1 digit **Range** 2, 3, 5, 6, 7 **Default Value** N/A

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Table 4-575 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustom-Fields.xml) API. **Constraints**: This field can be left blank. **Options**: N/A **Default value**: N/A
field_name	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-576 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	**Definition** Actual workloads. **Range** ≥ 0
assigned_cc_user	Array of **IssueUser** objects	**Parameter description**: Cc recipient.
assigned_user	**IssueUser** object	**Parameter description**: Handler.
begin_time	String	**Parameter description**: Estimated start time. The format is YYYY-MM-DD. **Value range**: N/A

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Parameter	Type	Description
closed_time	String	**Definition**: Closing time. The format is YYYY-MM-DD. **Value range**: N/A
created_time	String	**Parameter description**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Value range**: N/A
creator	**IssueUser** object	**Parameter description**: Creator.
custom_fields	Array of **CustomField** objects	**Parameter description**: Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
developer	**IssueUser** object	**Parameter description**: Developer.
domain	**domain** object	**Definition**: Domain.
done_ratio	Integer	**Definition** Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Range** 0–100
end_time	String	**Definition** Estimated end time. The format is YYYY-MM-DD. **Range** N/A
expected_work_hours	Double	**Definition** Estimated workloads. **Range** Min.: 0.

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Parameter	Type	Description
id	Integer	**Definition** Work item ID. **Range** ≥ 0
iteration	**iteration** object	**Definition** Sprint.
module	**module** object	**Definition** Module.
name	String	**Definition**: Title. **Options**: N/A
new_custom_fields	Array of **NewCustomField** objects	**Definition**: Custom property value.
parent_issue	**parent_issue** object	**Definition**: Parent work item.
priority	**priority** object	**Definition**: Work item priority.
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.
tracker	**tracker** object	**Definition**: Work item type.
updated_time	String	**Definition**: Update time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
find_release_dev	String	**Definition** Version number. **Range** N/A

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Parameter	Type	Description
release_dev	String	**Definition** Release version number. **Range** N/A
env	**IssueAttribute** object	**Definition** Environment. **Range** N/A
tag_list	Array of **TagRelation** objects	**Definition** Tag list. **Range** N/A

Table 4-577 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A

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Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-578 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

Table 4-579 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. The options are as follows: **14**: performance **15**: performance **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability **Value range**: **14**, **15**, **16**, **17**, **18**, **19**, and **20**

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Parameter	Type	Description
name	String	**Definition**: Domain name. **Options**: N/A

Table 4-580 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** ≥ 0
name	String	**Definition**: Sprint name. **Options**: N/A

Table 4-581 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** ≥ 0
name	String	**Definition**: Module. **Options**: N/A

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Table 4-582 NewCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API.
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

Table 4-583 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** Min.: 0.
name	String	**Definition**: Parent work item. **Options**: N/A

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Table 4-584 priority

Parameter	Type	Description
id	Integer	**Definition** Priority ID. The options are as follows: **1**: low **2**: medium **3**: high **Range** • **1**: low • **2**: medium • **3**: high
name	String	**Definition** Priority. **Range** • Low • Medium • High

Table 4-585 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
project_name	String	**Definition**: Project name. **Value range**: N/A
project_num_id	Integer	**Definition** Digital ID of a project. **Range** ≥ 0

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Table 4-586 severity

Parameter	Type	Description
id	Integer	**Definition**: Severity ID. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Options**: **10**, **11**, **12**, and **13**
name	String	**Definition**: Severity. **Options**: N/A

Table 4-587 status

Parameter	Type	Description
id	Integer	**Definition**: Status ID. The options are as follows: **1**: initial **2**: in progress **3**: solved **4**: testing **5**: closed **6**: rejected **Options**: **1**, **2**, **3**, **4**, **5**, and **6**
name	String	**Definition**: Status name. **Options**: N/A

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Table 4-588 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Type name. **Options**: N/A

Table 4-589 IssueAttribute

Parameter	Type	Description
id	Integer	**Definition** Environment ID. **Range** N/A
name	String	**Definition** Environment name. **Range** N/A

Table 4-590 TagRelation

Parameter	Type	Description
relationId	Integer	**Definition** Association ID. **Range** N/A

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Parameter	Type	Description
tagId	Integer	**Definition** Tag ID. **Range** N/A
region	String	**Definition** Region. **Range** N/A
name	String	**Definition** Tag name. **Range** N/A

Status code: 400

Table 4-591 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-592 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921

{
  "status_id" : 2
}
```

Example Responses

Status code: 200

```
{
  "id" : 1377841,
  "name" : "testAPI modification",
  "done_ratio" : 0,
  "tracker" : {
    "id" : 3,
    "name" : "Bug"
  },
  "priority" : {
    "id" : 2,
    "name" : "Medium"
  },
  "security_level" : null,
  "order" : {
    "id" : 1,
    "name" : "1"
  },
  "severity" : {
    "id" : 12,
    "name" : "Minor"
  },
  "status" : {
    "id" : 1,
    "name" : "Initial"
  },
  "release_dev" : "",
  "find_release_dev" : "",
  "env" : null,
  "updated_time" : "2026-07-08 14:23:25",
  "begin_time" : "2025-12-17",
  "end_time" : "2025-12-31",
  "project" : {
    "project_num_id" : 527,
    "project_id" : "ddb260aa69b848599747eadfa632a40f",
    "project_name" : "Scrum0630001"
```

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```
 },
 "parent_issue" : {
   "id" : 1377839,
   "name" : "story111"
 },
 "module" : null,
 "domain" : null,
 "iteration" : null,
 "story_point" : null,
 "expected_work_hours" : 0,
 "actual_work_hours" : 0,
 "created_time" : "2026-06-30 16:57:45",
 "custom_fields" : [ ],
 "new_custom_fields" : null,
 "assigned_cc_user" : null,
 "assigned_user" : {
   "user_id" : null,
   "user_num_id" : null,
   "id" : 83,
   "name" : "CodeArtsReq_creq_chm1",
   "nick_name" : "creq_chm1",
   "first_name" : "creq_chm1"
 },
 "creator" : {
   "user_id" : null,
   "user_num_id" : null,
   "id" : 83,
   "name" : "CodeArtsReq_creq_chm1",
   "nick_name" : "creq_chm1",
   "first_name" : "creq_chm1"
 },
 "developer" : {
   "user_id" : null,
   "user_num_id" : null,
   "id" : 83,
   "name" : "CodeArtsReq_creq_chm1",
   "nick_name" : null,
   "first_name" : "creq_chm1"
 },
 "closed_time" : null,
 "tag_list" : null
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateIssueV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
```

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```
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateIssueV4Request request = new UpdateIssueV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        IssueRequestV4 body = new IssueRequestV4();
        body.withStatusId(2);
        request.withBody(body);
        try {
            UpdateIssueV4Response response = client.updateIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateIssueV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        request.body = IssueRequestV4(
            status_id=2
        )
        response = client.update_issue_v4(request)
```

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```
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateIssueV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    statusIdIssueRequestV4:= int32(2)
    request.Body = &model.IssueRequestV4{
        StatusId: &statusIdIssueRequestV4,
    }
    response, err := client.UpdateIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.18 Deleting a Work Item (V4)

Function

This API is used to delete a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/issues/{issue_id}

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Table 4-593 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-594 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-595 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteIssueV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteIssueV4Request request = new DeleteIssueV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            DeleteIssueV4Response response = client.deleteIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteIssueV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.delete_issue_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteIssueV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
```

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```
    response, err := client.DeleteIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.19 Querying Associated Cases

Function

This API is used to query associated cases.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associate-test-cases

Table 4-596 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Request Parameters

Table 4-597 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-598 Response body parameters

Parameter	Type	Description
test_cases	Array of **AssociatedTestCase** objects	**Definition**: List of associated test cases.
total	Integer	**Definition**: Total number. **Options**: N/A

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Table 4-599 AssociatedTestCase

Parameter	Type	Description
case_id	String	**Definition**: Case ID. **Options**: N/A
case_level	String	**Definition**: Case level. **Options**: N/A
case_name	String	**Definition**: Case name. **Options**: N/A
case_num	String	**Definition**: Case ID. **Options**: N/A
created_time	Long	**Definition**: Creation time. **Options**: N/A
creator	**SimpleUser** object	**Definition**: Creator.
is_base_line	Integer	**Definition**: Baseline or not. **Options**: N/A
owner	**SimpleUser** object	**Definition**: Owner.
project	**SimpleProject** object	**Definition**: Project information.
status	**StatusVo** object	**Definition**: Status.

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Parameter	Type	Description
type	String	**Definition**: Case type. **Value range**: **TestCase** (test case)

Table 4-600 SimpleUser

Parameter	Type	Description
nick_name	String	**Definition** User alias. You can obtain the **nick_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_id	String	**Definition** User UUID. You can obtain the **user_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_name	String	**Definition** Account name. You can obtain the **user_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_num_id	Integer	**Definition** User digital ID. You can obtain the **user_num_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

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Table 4-601 SimpleProject

Parameter	Type	Description
project_id	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID.
project_name	String	**Definition**: Project name. **Options**: N/A

Table 4-602 StatusVo

Parameter	Type	Description
id	String	**Definition**: Status ID. **Options**: N/A
name	String	**Definition**: Value of the status ID. **Options**: N/A

Status code: 400

Table 4-603 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-604 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/1234/associate-test-cases
```

Example Responses

Status code: 200

```
{
  "test_cases" : [ {
    "case_id" : "36cfaab019dc49cdb53b07aefe553f5a",
    "case_num" : "1",
    "case_name" : "demo",
    "case_level" : "2",
    "status" : {
      "id" : "1",
      "name" : "Not started"
    },
    "creator" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
```

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```
    "user_name" : "demo_user_name_xiongzhitest001",
    "nick_name" : "bear1"
   },
   "owner" : {
    "user_num_id" : 4091,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_name" : "demo_user_name_xiongzhitest001",
    "nick_name" : "bear1"
   },
   "project" : {
    "project_name" : "demo",
    "project_id" : "58d9050550c847c89885c1797a718b0c"
   },
   "is_base_line" : 0,
   "type" : "1",
   "created_time" : 1233445566000
  } ],
  "total" : 0
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListAssociatedTestCasesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListAssociatedTestCasesRequest request = new ListAssociatedTestCasesRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListAssociatedTestCasesResponse response = client.listAssociatedTestCases(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
```

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```
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListAssociatedTestCasesRequest()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_associated_test_cases(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
```

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```
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListAssociatedTestCasesRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListAssociatedTestCases(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.7.20 Querying the Code Submission Records or Branch Creation Records Associated with the Current Work Item

Function

This API is used to query the code submission records or branch creation records associated with the current work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-commits

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Table 4-605 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Table 4-606 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition**: Query type. **Constraints**: N/A **Value range**: **commit** (commits) **branch** (branches) **Default value**: N/A
limit	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** Start from 0. **Range** 0–10000 **Default Value** 0

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Request Parameters

Table 4-607 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-608 Response body parameters

Parameter	Type	Description
commits	Array of **CommitRecordDetail** objects	**Definition**: Commit record list.
total	Integer	**Definition**: Total number. **Options**: N/A

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Table 4-609 CommitRecordDetail

Parameter	Type	Description
branch_name	String	**Definition**: Branch name. **Options**: N/A
commit_id	String	**Definition** Commit ID. In Git, each commit generates a unique identifier, called Commit ID. It is usually a 40-character SHA-1 hash value, which uniquely identifies each commit. **Range** N/A
commit_msg	String	**Definition**: Commit information. Each time you submit a commit, you need to provide a description, called Commit Msg. It is used to describe the specific changes made in the commit, helping other developers understand the purpose and content of the commit. **Options**: N/A
commit_short_id	String	**Definition** Short ID of a commit. It is a short version of commit ID, which is usually 7 characters long. It is used to simplify the operation of referencing a specific commit while maintaining sufficient uniqueness. **Range** N/A
commit_url	String	**Definition** Commit URL. It is the URL that points to a specific commit. You can use the link to access the details page of the commit, to check its author, time, and changes. **Range** N/A

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Parameter	Type	Description
create_date	String	**Definition**: Creation time. **Options**: N/A
repository_id	String	**Definition**: Repository ID. In Git, it is an identifier used to uniquely identify a repository. **Options**: N/A
type	String	**Definition**: Query type. **Value range**: **commit** (commits) **branch** (branches)
update_date	String	**Definition**: Update time. **Options**: N/A
user	**SimpleUser** object	**Definition**: User information.

Table 4-610 SimpleUser

Parameter	Type	Description
nick_name	String	**Definition** User alias. You can obtain the **nick_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_id	String	**Definition** User UUID. You can obtain the **user_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

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Parameter	Type	Description
user_name	String	**Definition** Account name. You can obtain the **user_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_num_id	Integer	**Definition** User digital ID. You can obtain the **user_num_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

Status code: 400

Table 4-611 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-612 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/122344/associated-commits?type=commit&limit=1&offset=10
```

Example Responses

Status code: 200

```
{
  "commits" : [ {
    "repository_id" : "1865706",
    "branch_name" : "master",
    "commit_id" : "f608b02311d90f311c41711fdf67003c31305b89",
    "commit_short_id" : "f608b023",
    "commit_msg" : "demo",
    "commit_url" : "https://xxx.xxx/xxxx/commit/791877f7d0e0b2032bc5e38425c1245e804e8741?ref=master",
    "user" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_001",
      "nick_name" : "bear"
    },
    "type" : "branch",
    "create_date" : "2025-09-29T01:39:06.000+00:00",
    "update_date" : "2025-09-29T01:39:06.000+00:00"
  } ],
  "total" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
```

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```
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssueAssociatedCommitsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueAssociatedCommitsRequest request = new ListIssueAssociatedCommitsRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListIssueAssociatedCommitsResponse response = client.listIssueAssociatedCommits(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
```

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```
        request = ListIssueAssociatedCommitsRequest()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_issue_associated_commits(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueAssociatedCommitsRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListIssueAssociatedCommits(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to the request for querying the code commit or branch creation records associated with current work item.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.21 Querying the Work Items Associated with the Current Work Item

Function

This API is used to query work items associated with the current work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-issues

Table 4-613 Path Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Table 4-614 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** N/A **Range** 0–10000 **Default Value** 0

Request Parameters

Table 4-615 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-616 Response body parameters

Parameter	Type	Description
issues	Array of **AssociateIssueDetail** objects	**Definition**: List of associated work items.
total	Integer	**Definition**: Total number of associated work items. **Options**: N/A

Table 4-617 AssociateIssueDetail

Parameter	Type	Description
issue_id	Integer	**Definition**: Work item ID. **Options**: N/A
project	**SimpleProject** object	**Definition**: Project information.
status	**StatusVo** object	**Definition**: Work item status information. **Options**: N/A
subject	String	**Definition**: Work item title. **Options**: N/A
user	**SimpleUser** object	**Definition**: User information.

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Table 4-618 SimpleProject

Parameter	Type	Description
project_id	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID.
project_name	String	**Definition**: Project name. **Options**: N/A

Table 4-619 StatusVo

Parameter	Type	Description
id	String	**Definition**: Status ID. **Options**: N/A
name	String	**Definition**: Value of the status ID. **Options**: N/A

Table 4-620 SimpleUser

Parameter	Type	Description
nick_name	String	**Definition** User alias. You can obtain the **nick_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

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Parameter	Type	Description
user_id	String	**Definition** User UUID. You can obtain the **user_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_name	String	**Definition** Account name. You can obtain the **user_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_num_id	Integer	**Definition** User digital ID. You can obtain the **user_num_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

Status code: 400

Table 4-621 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-622 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-issues
```

Example Responses

Status code: 200

```
{
  "issues" : [ {
    "subject" : "demo",
    "issue_id" : 1234,
    "project" : {
      "project_name" : "demo",
      "project_id" : "58d9050550c847c89885c1797a718b0c"
    },
    "user" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "bear"
    },
    "status" : {
      "id" : "1",
      "name" : "Not started"
    }
  } ],
  "total" : 12
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListAssociatedIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListAssociatedIssuesRequest request = new ListAssociatedIssuesRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListAssociatedIssuesResponse response = client.listAssociatedIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListAssociatedIssuesRequest()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_associated_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListAssociatedIssuesRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
```

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```
    response, err := client.ListAssociatedIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to the request for querying work items associated with the current work item.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.22 Querying the Wikis Associated with the Current Work Item

Function

This API is used to query wikis associated with the current work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-wikis

Table 4-623 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Table 4-624 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** Start from 0. **Range** 0–10000 **Default Value** 0

Request Parameters

Table 4-625 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-626 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number of queried records. **Options**: N/A
wikis	Array of **AttachWikiDetail** objects	**Definition**: List of associated wikis. **Options**: N/A

Table 4-627 AttachWikiDetail

Parameter	Type	Description
created_date	String	**Definition**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
issue_id	Integer	**Definition**: Work item ID. **Options**: 0 to 9,999,999,999
project	**SimpleProject** object	**Definition**: Project information. **Options**: N/A
region	String	**Definition**: Region value. **Options**: N/A

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Parameter	Type	Description
wiki_author	SimpleUser object	**Definition**: User information. **Options**: N/A
wiki_id	String	**Definition**: Wiki ID. **Options**: N/A
wiki_title	String	**Definition**: Wiki title. **Options**: N/A

Table 4-628 SimpleProject

Parameter	Type	Description
project_id	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID.
project_name	String	**Definition**: Project name. **Options**: N/A

Table 4-629 SimpleUser

Parameter	Type	Description
nick_name	String	**Definition** User alias. You can obtain the **nick_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

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Parameter	Type	Description
user_id	String	**Definition** User UUID. You can obtain the **user_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_name	String	**Definition** Account name. You can obtain the **user_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A
user_num_id	Integer	**Definition** User digital ID. You can obtain the **user_num_id** field of a specified project member using the API for **obtaining the user list of a specified project**. **Range** N/A

Status code: 400

Table 4-630 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-631 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-wikis
```

Example Responses

Status code: 200

```
{
  "wikis" : [ {
    "issue_id" : 1234,
    "wiki_title" : "wikidemo",
    "wiki_author" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "demo"
    },
    "project" : {
      "project_name" : "demo",
      "project_id" : "58d9050550c847c89885c1797a718b0c"
    },
    "created_date" : "2021-11-18 19:47:34",
    "wiki_id" : "1839097",
    "region" : "region01"
  } ],
  "total" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```

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```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListAssociatedWikisSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListAssociatedWikisRequest request = new ListAssociatedWikisRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListAssociatedWikisResponse response = client.listAssociatedWikis(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)
```

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```
client = ProjectManClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ListAssociatedWikisRequest()
    request.project_id = "{project_id}"
    request.issue_id = {issue_id}
    response = client.list_associated_wikis(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListAssociatedWikisRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListAssociatedWikis(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

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```
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to the request for querying wikis associated with the current work item.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.23 Uploads an attachment to a work item.

Function

Uploads an attachment to a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:upload	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

POST /v4/projects/{project_id}/issues/{issue_id}/attachments/upload

Table 4-632 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Request Parameters

Table 4-633 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	**Definition**: Attachment. **Constraints**: Maximum upload size: 50 MB.

Response Parameters

Status code: 200

Table 4-634 Response body parameters

Parameter	Type	Description
disk_filename	String	**Definition**: Cloud disk name. **Options**: N/A
file_name	String	**Definition**: File name. **Options**: N/A
id	Integer	**Definition** Association ID. **Range** N/A
issue_id	Integer	**Definition** Work item ID. **Range** N/A
project_id	String	**Definition** Project ID. **Range** N/A

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Parameter	Type	Description
size	String	**Definition**: File size. **Options**: N/A

Status code: 400

Table 4-635 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-636 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
POST https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/attachments/upload

------WebKitFormBoundary1kuNerRnRVVybt65
Content-Disposition: form-data; name="attachment"; filename="demo.PNG"
Content-Type: image/png
```

Example Responses

Status code: 200

```
{
  "disk_filename" : "adfadsfasdfa.jpg",
  "file_name" : "demo.jpg",
  "id" : "1234,",
  "issue_id" : "1232,",
  "project_id" : "2c42a6d37ccc4197bf0b3dbe91be021a",
  "size" : "1233"
}
```

Status Codes

Status Code	Description
200	Response to the request for uploading a work item attachment.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.24 This API is used to download work item attachments.

Function

This API is used to download work item attachments.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:download	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/{issue_id}/attachments/{attachment_id}

Table 4-637 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Parameter	Mandatory	Type	Description
attachment_id	Yes	String	**Definition** Attachment ID. You can obtain the ID using the **Querying Work Item Details** API. The **attachment_id** in the accessories list in the return information is the attachment ID. **Constraints** A string of 1 to 11 digits. The first digit ranges from 1 to 9. **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-638 Response body parameters

Parameter	Type	Description
-	File	Downloaded work item attachment.

Status code: 400

Table 4-639 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-640 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/f7a67aee4c034fd6944fd5f769e89042/issues/5667740/attachments/72372
```

Example Responses

Status code: 200

None

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DownloadAttachmentSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DownloadAttachmentRequest request = new DownloadAttachmentRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        request.withAttachmentId("{attachment_id}");
        try {
            DownloadAttachmentResponse response = client.downloadAttachment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
```

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```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DownloadAttachmentRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.attachment_id = "{attachment_id}"
        response = client.download_attachment(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DownloadAttachmentRequest{}
```

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```
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    request.AttachmentId = "{attachment_id}"
    response, err := client.DownloadAttachment(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to the request for downloading a work item attachment.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.25 Deleting an Attachment

Function

This API is used to delete an attachment. If the attachment is uploaded on the work item page, delete the attachment.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:upload	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/issues/{issue_id}/attachments/{attachment_id}

Table 4-641 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition** Primary key of the work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints** N/A **Range** N/A **Default Value** N/A
attachment_id	Yes	String	**Definition** Attachment ID. You can obtain the ID using the **Querying Work Item Details** API. The **attachment_id** in the accessories list in the return information is the attachment ID. **Constraints** A string of 1 to 11 digits. The first digit ranges from 1 to 9. **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-642 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-643 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/f7a67aee4c034fd6944fd5f769e89042/issues/5667740/attachments/72372
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteAttachmentSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteAttachmentRequest request = new DeleteAttachmentRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        request.withAttachmentId("{attachment_id}");
        try {
            DeleteAttachmentResponse response = client.deleteAttachment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *
```

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```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteAttachmentRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.attachment_id = "{attachment_id}"
        response = client.delete_attachment(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteAttachmentRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    request.AttachmentId = "{attachment_id}"
    response, err := client.DeleteAttachment(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.26 Obtaining Child Work Items

Function

This API is used to obtain child work items.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/child

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Table 4-644 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Request Parameters

Table 4-645 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-646 Response body parameters

Parameter	Type	Description
issues	Array of **IssueResponseV4** objects	**Definition**: Work item list.
total	Integer	**Definition**: Total number. **Options**: N/A

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Table 4-647 IssueResponseV4

Parameter	Type	Description
actual_work_hours	Double	**Definition** Actual workloads. **Range** ≥ 0
assigned_cc_user	Array of **IssueUser** objects	**Parameter description**: Cc recipient.
assigned_user	**IssueUser** object	**Parameter description**: Handler.
begin_time	String	**Parameter description**: Estimated start time. The format is YYYY-MM-DD. **Value range**: N/A
closed_time	String	**Definition**: Closing time. The format is YYYY-MM-DD. **Value range**: N/A
created_time	String	**Parameter description**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Value range**: N/A
creator	**IssueUser** object	**Parameter description**: Creator.
custom_fields	Array of **CustomField** objects	**Parameter description**: Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
developer	**IssueUser** object	**Parameter description**: Developer.
domain	**domain** object	**Definition**: Domain.

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Parameter	Type	Description
done_ratio	Integer	**Definition** Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Range** 0–100
end_time	String	**Definition** Estimated end time. The format is YYYY-MM-DD. **Range** N/A
expected_work_hours	Double	**Definition** Estimated workloads. **Range** Min.: 0.
id	Integer	**Definition** Work item ID. **Range** ≥ 0
iteration	**iteration** object	**Definition** Sprint.
module	**module** object	**Definition** Module.
name	String	**Definition**: Title. **Options**: N/A
new_custom_fields	Array of **NewCustomField** objects	**Definition**: Custom property value.
parent_issue	**parent_issue** object	**Definition**: Parent work item.
priority	**priority** object	**Definition**: Work item priority.
project	**IssueProjectResponseV4** object	**Definition**: Project information.

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Parameter	Type	Description
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.
tracker	**tracker** object	**Definition**: Work item type.
updated_time	String	**Definition**: Update time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
find_release_dev	String	**Definition** Version number. **Range** N/A
release_dev	String	**Definition** Release version number. **Range** N/A
env	**IssueAttribute** object	**Definition** Environment. **Range** N/A
tag_list	Array of **TagRelation** objects	**Definition** Tag list. **Range** N/A

Table 4-648 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-649 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

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Table 4-650 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. The options are as follows: **14**: performance **15**: performance **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability **Value range**: **14**, **15**, **16**, **17**, **18**, **19**, and **20**
name	String	**Definition**: Domain name. **Options**: N/A

Table 4-651 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** ≥ 0
name	String	**Definition**: Sprint name. **Options**: N/A

Table 4-652 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** ≥ 0

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Parameter	Type	Description
name	String	**Definition**: Module. **Options**: N/A

Table 4-653 NewCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API.
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

Table 4-654 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** Min.: 0.

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Parameter	Type	Description
name	String	**Definition**: Parent work item. **Options**: N/A

Table 4-655 priority

Parameter	Type	Description
id	Integer	**Definition** Priority ID. The options are as follows: **1**: low **2**: medium **3**: high **Range** • **1**: low • **2**: medium • **3**: high
name	String	**Definition** Priority. **Range** • Low • Medium • High

Table 4-656 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
project_name	String	**Definition**: Project name. **Value range**: N/A

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Parameter	Type	Description
project_num_id	Integer	**Definition** Digital ID of a project. **Range** ≥ 0

Table 4-657 severity

Parameter	Type	Description
id	Integer	**Definition**: Severity ID. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Options**: **10**, **11**, **12**, and **13**
name	String	**Definition**: Severity. **Options**: N/A

Table 4-658 status

Parameter	Type	Description
id	Integer	**Definition**: Status ID. The options are as follows: **1**: initial **2**: in progress **3**: solved **4**: testing **5**: closed **6**: rejected **Options**: **1**, **2**, **3**, **4**, **5**, and **6**

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Parameter	Type	Description
name	String	**Definition**: Status name. **Options**: N/A

Table 4-659 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Type name. **Options**: N/A

Table 4-660 IssueAttribute

Parameter	Type	Description
id	Integer	**Definition** Environment ID. **Range** N/A
name	String	**Definition** Environment name. **Range** N/A

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Table 4-661 TagRelation

Parameter	Type	Description
relationId	Integer	**Definition** Association ID. **Range** N/A
tagId	Integer	**Definition** Tag ID. **Range** N/A
region	String	**Definition** Region. **Range** N/A
name	String	**Definition** Tag name. **Range** N/A

Status code: 400

Table 4-662 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-663 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921/child
```

Example Responses

Status code: 200

```
{
  "issues" : [ {
    "actual_work_hours" : 0,
    "assigned_cc_user" : [ {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    } ],
    "assigned_user" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "begin_time" : "2020-09-12",
    "created_time" : "2020-09-13 14:40:11",
    "creator" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "custom_fields" : [ {
      "name" : "customField16",
      "value" : "Check box",
      "new_name" : "custom_field16"
    } ],
    "new_custom_fields" : [ {
      "custom_field" : "custom_field16",
      "field_name" : "field_name",
      "value" : "Check box 1, Check box 2"
    } ],
```

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```
    "developer" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "domain" : {
      "id" : 14,
      "name" : "Performance"
    },
    "done_ratio" : 0,
    "end_time" : "2020-09-19",
    "expected_work_hours" : 9,
    "id" : 4567,
    "project" : {
      "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
      "project_name" : "testDemo",
      "project_num_id" : 78953
    },
    "iteration" : {
      "id" : 456,
      "name" : "Sprint 1"
    },
    "module" : {
      "id" : 456,
      "name" : "Project"
    },
    "name" : "Internationalization improvement",
    "parent_issue" : {
      "id" : 123,
      "name" : "Querying project members"
    },
    "priority" : {
      "id" : 1,
      "name" : "Low"
    },
    "severity" : {
      "id" : 12,
      "name" : "General"
    },
    "status" : {
      "id" : 1,
      "name" : "New"
    },
    "tracker" : {
      "id" : 7,
      "name" : "story"
    },
    "updated_time" : "2020-09-14 14:40:11",
    "closed_time" : "2020-09-15 14:40:11"
  } ],
  "total" : 1
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.7.27 Obtaining Comments on a Specified Work Item

Function

This API is used to obtain comments on a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/issues/{issue_id}/comments

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Table 4-664 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Table 4-665 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** N/A **Range** 0–10000 **Default Value** 0
limit	Yes	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-666 Response body parameters

Parameter	Type	Description
comments	Array of **IssueCommentV4** objects	**Definition**: Comment list.
total	Integer	**Definition**: Total number of comments. **Options**: N/A

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Table 4-667 IssueCommentV4

Parameter	Type	Description
comment	String	**Definition**: Comment content. **Options**: N/A
created_time	String	**Definition**: Comment time. The format is YYYY-MM-DD. **Options**: N/A
id	Integer	**Definition** Comment ID. **Range** N/A
timestamp	String	**Definition**: Comment timestamp. **Options**: N/A
user	**CommentUserV4** object	**Definition**: User information.

Table 4-668 CommentUserV4

Parameter	Type	Description
nick_name	String	**Definition**: Alias of the user who posted the comment. **Options**: N/A
user_name	String	**Definition**: Name of the user who posted the comment. **Options**: N/A

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Parameter	Type	Description
user_num_id	Integer	**Definition** ID of the user who posted the comment. **Range** N/A

Status code: 400

Table 4-669 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-670 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issues/1232495/comments
```

Example Responses

Status code: 200

```
{
  "total" : 3,
  "comments" : [ {
    "comment" : "<p>This is a comment.</p>",
    "id" : 2777430,
    "created_time" : "2019-10-18",
    "timestamp" : "1684220287000",
    "user" : {
      "user_num_id" : 4091,
      "user_name" : "demo_user_name",
      "nick_name" : "name"
    }
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssueCommentsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueCommentsV4Request request = new ListIssueCommentsV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListIssueCommentsV4Response response = client.listIssueCommentsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueCommentsV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_issue_comments_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueCommentsV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListIssueCommentsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.28 Adding Work Hours for a Specified Work Item

Function

This API is used to work hours for a specified work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/issues/{issue_id}/work-hours

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Table 4-671 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
issue_id	Yes	Integer	**Definition** Work item ID, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A

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Request Parameters

Table 4-672 Request body parameters

Parameter	Mandatory	Type	Description
due_date	Yes	String	**Definition** Work end date: YYYY-MM-DD. **Constraints** The value is in the format of YYYY-MM-DD. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A
start_date	Yes	String	**Definition** Work start date: YYYY-MM-DD. **Constraints** The value is in the format of YYYY-MM-DD. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A

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Parameter	Mandatory	Type	Description
work_hours	Yes	Double	**Definition** Total workloads (if the date range includes multiple days, the workload for a single day can be set to "Total workloads/Days"). **Constraints** N/A **Range** 0–100000000 **Default Value** N/A
work_hours_type_id	No	Integer	**Definition** Work type ID. **21**: R&D and design, **22**: backend development, **23**: frontend development (web), **24**: frontend development (applet), **25**: frontend development (app), **26**: test and verifications, **27**: bug rectification, **28**: UI design, **29**: meeting, **30**: public affairs, **31**: training, **32**: research, **33**: other, and **34**: replacement leave. **Constraints** N/A **Range** 21–34 **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-673 Response body parameters

Parameter	Type	Description
added_work_hours	Array of **added_work_hours** objects	**Definition**: List of added workloads.

Table 4-674 added_work_hours

Parameter	Type	Description
issue_id	Integer	**Definition** ID of the work item of adding workloads. **Range** 1 to 10 characters
user_name	String	**Definition**: Username. **Options**: N/A
user_nick_name	String	**Definition**: User nickname. **Options**: N/A
work_date	String	**Definition**: Work date. **Options**: N/A
work_hours	Double	**Definition**: Workloads. **Options**: Minimum value: **0.0**. Maximum value: ***100000000**.
work_hours_id	String	**Definition**: Workload ID. **Options**: N/A

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Parameter	Type	Description
work_hours_type_name	String	**Definition**: Work type name. **Options**: **21**: R&D and design **22**: backend development **23**: frontend development (web) **24**: frontend development (applet) **25**: frontend development (app) **26**: test and verification **27**: bug fixing **28**: UI design **29**: conference **30**: public affairs **31**: training **32**: research **33**: other **34**: replacement leave

Status code: 400

Table 4-675 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-676 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/issues/123456/work-hours

{
  "due_date" : "2023-05-15",
  "start_date" : "2023-05-15",
  "work_hours" : 2,
  "work_hours_type_id" : 21
}
```

Example Responses

Status code: 200

```
{
  "added_work_hours" : [ {
    "work_hours_id" : "7da14cf9f3c111eda5a5fa163ec9f6c1",
    "issue_id" : 123456,
    "user_name" : "user_name",
    "user_nick_name" : "O_O",
    "work_date" : "2023-05-15",
    "work_hours" : "2.0",
    "work_hours_type_name" : "R&D and design"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

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```
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class AddIssueWorkHoursSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        AddIssueWorkHoursRequest request = new AddIssueWorkHoursRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        AddIssueWorkHoursRequestBody body = new AddIssueWorkHoursRequestBody();
        body.withWorkHoursTypeId(21);
        body.withWorkHours((double)2);
        body.withDueDate("2023-05-15");
        body.withStartDate("2023-05-15");
        request.withBody(body);
        try {
            AddIssueWorkHoursResponse response = client.addIssueWorkHours(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
```

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```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = AddIssueWorkHoursRequest()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        request.body = AddIssueWorkHoursRequestBody(
            work_hours_type_id=21,
            work_hours=2,
            due_date="2023-05-15",
            start_date="2023-05-15"
        )
        response = client.add_issue_work_hours(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.AddIssueWorkHoursRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    workHoursTypeIdAddIssueWorkHoursRequestBody:= int32(21)
    request.Body = &model.AddIssueWorkHoursRequestBody{
        WorkHoursTypeId: &workHoursTypeIdAddIssueWorkHoursRequestBody,
        WorkHours: float64(2),
        DueDate: "2023-05-15",
        StartDate: "2023-05-15",
    }
    response, err := client.AddIssueWorkHours(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.29 Querying Work Item Status Statistics in a Sprint (by Handler)

Function

This API is used to query work item status statistics in a Sprint (by handler).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v4/projects/{project_id}/status-statistic

Table 4-677 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-678 Query Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	Integer	**Definition** Sprint ID. You can obtain the sprint list of a project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints** ≥ 1 digit **Range** ≥ 1 **Default Value** N/A

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Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	**Definition**: Work item types of custom fields. The options are as follows: **2** (task) **3** (bug) **7** (story) **Constraints**: N/A **Options**: **2**, **3**, and **7** **Default value**: N/A
status_id	Yes	Integer	**Definition** Status ID. The options are as follows: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected **Constraints** ≥ 1 digit **Range** 1, 2, 3, 4, 5, 6 **Default Value** N/A

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Request Parameters

Table 4-679 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-680 Response body parameters

Parameter	Type	Description
[items]	Array of **UserStatusStatistic** objects	**Definition**: Array of work item status statistics in a sprint (by handler).

Table 4-681 UserStatusStatistic

Parameter	Type	Description
data	Map<String,Integer>	**Definition**: Statistics on work item statuses **Options**: N/A

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Parameter	Type	Description
item_count	Integer	**Definition**: Total number of work items that meet conditions. **Options**: N/A
user	**IssueUser** object	**Definition**: User information. **Options**: N/A

Table 4-682 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A

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Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A

Status code: 400

Table 4-683 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-684 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

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Example Requests

```
GET https://{endpoint}/v4/projects/f7a67aee4c034fd6944fd5f769e89042/status-statistic?
iteration_id=1234&tracker_id=7&status_id=1
```

Example Responses

Status code: 200

```
[ {
  "user" : {
    "user_id" : "112a642015cf11eca152fa163ec9f6c1",
    "user_num_id" : 5055,
    "name" : "devcloud_devcloud_test_01_test"
  },
  "item_count" : 1,
  "data" : {
    "5874579" : 1
  }
}, {
  "user" : {
    "user_id" : "1139ffb615cf11eca152fa163ec9f6c1",
    "user_num_id" : 5255,
    "name" : "devcloud_devcloud_test_01_test"
  },
  "item_count" : 1,
  "data" : {
    "5874580" : 1
  }
}, {
  "user" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 9078,
    "nick_name" : "sstest5",
    "name" : "devcloud_devcloud_test_01"
  },
  "item_count" : 2,
  "data" : {
    "5874581" : 1,
    "5874584" : 1
  }
}, {
  "user" : {
    "user_id" : "D0XCOQMxQ9Nujj9lybk51lFEQzpdpzMc",
    "user_num_id" : 15437,
    "name" : "devcloud_devcloud_test_01_FederationUser"
  },
  "item_count" : 1,
  "data" : {
    "5874582" : 2
  }
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
```

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```
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListStatusStatisticSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListStatusStatisticRequest request = new ListStatusStatisticRequest();
        request.withProjectId("{project_id}");
        try {
            ListStatusStatisticResponse response = client.listStatusStatistic(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
```

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```
        request = ListStatusStatisticRequest()
        request.project_id = "{project_id}"
        response = client.list_status_statistic(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListStatusStatisticRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListStatusStatistic(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.30 Creating a Work Item as a User with Fine-grained Permissions

Function

Users who have been granted IAM fine grained permissions (projectmanConfig:systemSettingField:set) and can create work items in a project can set work item creators.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/system/issue

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Table 4-685 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-686 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-687 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	**Definition** Actual workloads, automatically calculated by summing detailed workloads in a work item and its child work items. **Constraints** N/A **Range** ≥ 0 **Default Value** N/A
assigned_id	No	Integer	**Definition** Digital ID of the handler. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** ≥ 0 **Default Value** N/A
begin_time	No	String	**Definition** Start time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A

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Parameter	Mandatory	Type	Description
description	No	String	**Definition** Work item description. **Constraints** Can be left blank. **Range** A string of 1 to 200,000 characters. **Default Value** N/A
developer_id	No	Integer	**Definition** Digital ID of a developer. You can obtain the digital ID of a user in a specified project using the API for **obtaining the user list of a specified project**. **Constraints** ≥ 1 digit **Range** Min.: 0. **Default Value** N/A
domain_id	No	Integer	**Definition** Domain ID. **Constraints** One or more numeric digits. **Range** • **14**: Performance. • **15**: Function. • **16**: Reliability. • **17**: Network security. • **18**: Maintainability. • **19**: Other DFX. • **20**: Availability. • Custom domain. **Default Value** N/A

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Parameter	Mandatory	Type	Description
done_ratio	No	Integer	**Definition** Work item completion rate. **Constraints** If the input is 0, the completion rate of the work item is 0%. If the input is 100, the completion rate of the work item is 100%. **Range** 0–100 **Default Value** N/A
end_time	No	String	**Definition** End time: YYYY–MM–DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default Value** N/A
expected_work_hours	No	Double	**Definition**: Estimated workload. **Constraints**: This field can be left blank. **Options**: Minimum length: 0 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
iteration_id	No	Integer	**Definition** Sprint ID, which can be obtained using the API for **obtaining the sprint list of a specified project**. The value of the **id** field in the response message body is the sprint ID. **Constraints** ≥ 1 digit **Range** Min. 0 characters. **Default Value** N/A
module_id	No	Integer	**Definition** Module ID, which is the value of **id** in the response body returned by the API for **querying the project module list**. **Constraints** ≥ 1 digit **Range** Min. 0 characters. **Default Value** N/A
name	Yes	String	**Definition** Title. **Constraints** Can be left blank. **Range** Length: 1 to 512 characters **Default Value** N/A
new_custom_fields	No	Array of **NewCustomField** objects	**Definition**: Custom field. **Constraints**: N/A

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Parameter	Mandatory	Type	Description
parent_issue_id	No	Integer	**Definition** Parent work item ID. **Constraints** This parameter is mandatory when you create a child work item. Obtained the value from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response body is the work item ID. **Range** ≥ 0 **Default Value** N/A
priority_id	Yes	Integer	**Definition** Priority. **Constraints** N/A **Range** • **1**: Low. • **2**: Medium. • **3**: High. **Default Value** N/A
severity_id	No	Integer	**Definition** Severity. **Constraints** N/A **Range** • **10**: critical • **11**: major • **12**: minor • **13**: info **Default Value** N/A

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Parameter	Mandatory	Type	Description
status_id	No	Integer	**Definition** Status ID. **Constraints** One or more numeric digits. **Range** • **1**: New. • **2**: In progress. • **3**: Resolved. • **4**: Testing. • **5**: Closed. • **6**: Rejected. • Custom status. **Default Value** N/A
tracker_id	Yes	Integer	**Definition** Work item type. **Constraints** An epic can only be the parent work item of a feature. A feature can only be the parent work item of a story. A story can only be the parent work item of a task or bug. **Range** • **2**: task • **3**: bug • **5**: epic • **6**: feature • **7**: story **Default Value** N/A

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Parameter	Mandatory	Type	Description
assigned_cc	No	String	**Definition** CC user UUID. You can confirm the user UUID of a specific project member by calling the **Obtaining the Member List of a Specified Project** API. **Constraints** Multiple CC user UUIDs are concatenated by commas (,). **Range** N/A **Default Value** N/A
creator	Yes	**Creator** object	**Definition**: Creator. **Constraints**: N/A
custom_fields	No	Array of **ScrumCustomField** objects	**Definition**: Custom Scrum project fields. **Constraints**: N/A

Table 4-688 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustom-Fields.xml) API. **Constraints**: This field can be left blank. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
field_name	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A
value	No	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

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Table 4-689 Creator

Parameter	Mandatory	Type	Description
user_id	Yes	String	**Definition** Work item creator ID. You can obtain the value using the API for obtaining the current user information. The value of **user_id** in the response body is the creator ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-690 ScrumCustomField

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
value	No	String	**Definition**: Custom field value. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-691 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	**Definition** Actual workloads. **Range** N/A
assigned_cc_user	Array of **IssueUser** objects	**Definition**: Cc recipient.
assigned_user	**IssueUser** object	**Definition** Handler.
begin_time	String	**Definition**: Start time: YYYY–MM–DD. **Options**: N/A
creator	**IssueUser** object	**Definition**: Creator.
custom_fields	Array of **CustomField** objects	**Definition** Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
developer	**IssueUser** object	**Definition**: Developer.
domain	**domain** object	**Definition** **14**: performance **15**: function **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability
done_ratio	Integer	**Definition** Work item progress value. **Range** N/A

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Parameter	Type	Description
end_time	String	**Definition**: End time: YYYY–MM–DD. **Options**: N/A
expected_work_hours	Double	**Definition**: Estimated workload. **Options**: N/A
id	Integer	**Definition** Work item ID. **Range** N/A
iteration	**iteration** object	**Definition**: Sprint.
module	**module** object	**Definition**: Module.
new_custom_fields	Array of **NewCustomField** objects	**Definition**: Custom attribute value.
parent_issue	**parent_issue** object	**Definition**: Parent work item.
priority	**priority** object	**Definition** Work item priority. **1**: low **2**: medium **3**: high
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.

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Parameter	Type	Description
status	**status** object	**Definition** Work item status. **1**: new **2**: ongoing **3**: solved **4**: testing **5**: closed **6**: rejected
tracker	**tracker** object	**Definition** Work item type. **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-692 IssueUser

Parameter	Type	Description
id	Integer	**Definition** User ID. **Range** N/A
name	String	**Definition** Username. **Range** N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition** User UUID. **Range** N/A

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Parameter	Type	Description
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-693 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

Table 4-694 domain

Parameter	Type	Description
id	Integer	**Definition** Domain ID. **Range** N/A
name	String	**Definition**: Domain. **Options**: N/A

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Table 4-695 iteration

Parameter	Type	Description
id	Integer	**Definition** Sprint ID. **Range** N/A
name	String	**Definition**: Sprint name. **Options**: N/A

Table 4-696 module

Parameter	Type	Description
id	Integer	**Definition** Module ID. **Range** N/A
name	String	**Definition**: Module. **Options**: N/A

Table 4-697 NewCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API.

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Parameter	Type	Description
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API.

Table 4-698 parent_issue

Parameter	Type	Description
id	Integer	**Definition** Parent work item ID. **Range** N/A
name	String	**Definition**: Parent work item. **Options**: N/A

Table 4-699 priority

Parameter	Type	Description
id	Integer	**Definition** Priority ID. **Range** N/A
name	String	**Definition**: Priority. **Options**: N/A

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Table 4-700 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
project_name	String	**Definition**: Project name. **Value range**: N/A
project_num_id	Integer	**Definition** Digital ID of a project. **Range** ≥ 0

Table 4-701 severity

Parameter	Type	Description
id	Integer	**Definition** Severity ID. **Range** N/A
name	String	**Definition**: Severity. **Options**: N/A

Table 4-702 status

Parameter	Type	Description
id	Integer	**Definition** Status ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition**: Status name. **Options**: N/A

Table 4-703 tracker

Parameter	Type	Description
id	Integer	**Definition** Type ID. **Range** N/A
name	String	**Definition**: Type name. **Options**: N/A

Status code: 400

Table 4-704 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-705 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/system/issue

{
  "assigned_id" : 4091,
  "begin_time" : "2018-1-31",
  "creator" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf"
  },
  "description" : "",
  "developer_id" : 4091,
  "end_time" : "2018-07-05",
  "iteration_id" : 11302238,
  "name" : "test",
  "parent_issue_id" : 1679822,
  "priority_id" : 2,
  "severity_id" : 10,
  "status_id" : 1,
  "tracker_id" : 3
}
```

Example Responses

Status code: 200

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear"
  },
```

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```
"begin_time" : "2020-09-12",
"creator" : {
  "id" : 4091,
  "name" : "demo_user_name",
  "nick_name" : "bear"
},
"custom_fields" : [ {
  "name" : "customField16",
  "value" : "Check box",
  "new_name" : "custom_field16"
} ],
"new_custom_fields" : [ {
  "custom_field" : "custom_field16",
  "field_name" : "field_name",
  "value" : "Check box 1, Check box 2"
} ],
"developer" : {
  "id" : 4091,
  "name" : "demo_user_name",
  "nick_name" : "bear1"
},
"domain" : {
  "id" : 14,
  "name" : "Performance"
},
"done_ratio" : 0,
"end_time" : "2020-09-19",
"expected_work_hours" : 9,
"id" : 4567,
"project" : {
  "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
  "project_name" : "testDemo",
  "project_num_id" : 78953
},
"iteration" : {
  "id" : 456,
  "name" : "Sprint 1"
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"parent_issue" : {
  "id" : 123,
  "name" : "parentIssue"
},
"priority" : {
  "id" : 1,
  "name" : "Low"
},
"severity" : {
  "id" : 12,
  "name" : "Minor"
},
"status" : {
  "id" : 1,
  "name" : "New"
},
"tracker" : {
  "id" : 7,
  "name" : "story"
 }
}
```


SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateSystemIssueV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateSystemIssueV4Request request = new CreateSystemIssueV4Request();
        request.withProjectId("{project_id}");
        CreateSystemIssueRequestV4 body = new CreateSystemIssueRequestV4();
        Creator creatorbody = new Creator();
        creatorbody.withUserId("a360371833bf4c558f796fd707b44daf");
        body.withAssignedId(4091);
        body.withDeveloperId(4091);
        body.withSeverityId(10);
        body.withParentIssueId(1679822);
        body.withName("test");
        body.withTrackerId(3);
        body.withStatusId(1);
        body.withPriorityId(2);
        body.withIterationId(11302238);
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        body.withEndTime("2018-07-05");
        body.withCreator(creatorbody);
        request.withBody(body);
        try {
            CreateSystemIssueV4Response response = client.createSystemIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateSystemIssueV4Request()
        request.project_id = "{project_id}"
        creatorbody = Creator(
            user_id="a360371833bf4c558f796fd707b44daf"
        )
        request.body = CreateSystemIssueRequestV4(
            assigned_id=4091,
            developer_id=4091,
            severity_id=10,
            parent_issue_id=1679822,
            name="test",
            tracker_id=3,
            status_id=1,
            priority_id=2,
            iteration_id=11302238,
            description="",
            begin_time="2018-1-31",
            end_time="2018-07-05",
            creator=creatorbody
        )
        response = client.create_system_issue_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateSystemIssueV4Request{}
    request.ProjectId = "{project_id}"
    creatorbody := &model.Creator{
        UserId: "a360371833bf4c558f796fd707b44daf",
    }
    assignedIdCreateSystemIssueRequestV4:= int32(4091)
    developerIdCreateSystemIssueRequestV4:= int32(4091)
    severityIdCreateSystemIssueRequestV4:= int32(10)
    parentIssueIdCreateSystemIssueRequestV4:= int32(1679822)
    statusIdCreateSystemIssueRequestV4:= int32(1)
    iterationIdCreateSystemIssueRequestV4:= int32(11302238)
    descriptionCreateSystemIssueRequestV4:= ""
    beginTimeCreateSystemIssueRequestV4:= "2018-1-31"
    endTimeCreateSystemIssueRequestV4:= "2018-07-05"
    request.Body = &model.CreateSystemIssueRequestV4{
        AssignedId: &assignedIdCreateSystemIssueRequestV4,
        DeveloperId: &developerIdCreateSystemIssueRequestV4,
        SeverityId: &severityIdCreateSystemIssueRequestV4,
        ParentIssueId: &parentIssueIdCreateSystemIssueRequestV4,
        Name: "test",
        TrackerId: int32(3),
        StatusId: &statusIdCreateSystemIssueRequestV4,
        PriorityId: int32(2),
        IterationId: &iterationIdCreateSystemIssueRequestV4,
        Description: &descriptionCreateSystemIssueRequestV4,
        BeginTime: &beginTimeCreateSystemIssueRequestV4,
        EndTime: &endTimeCreateSystemIssueRequestV4,
        Creator: creatorbody,
    }
    response, err := client.CreateSystemIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.31 Querying Labor Hours of a Project by User

Function

This API is used to query labor hours of a project by user.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/work-hours

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Table 4-706 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-707 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-708 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	No	String	**Definition** Work start date: YYYY-MM-DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** N/A **Default Value** N/A
end_time	No	String	**Definition** Work end date: YYYY-MM-DD. **Constraints** The date is in the YYYY-MM-DD format, and the year ranges from 1000 to 9999. **Range** N/A **Default Value** N/A
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: A maximum of 500 records can be displayed on each page. **Options**: Minimum value: **1**. Maximum value: **1,000**. **Default value**: **10**.

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** Offset must be an integral multiple of **limit**. If **limit** equals **10**, then valid **offset** values are **0**, **10**, **20**, and so on. **Range** 0–10000 **Default Value** 0
user_ids	No	Array of strings	**Definition** List of queried user IDs. You can obtain the value using the API for obtaining the current user information. The value of **user_id** in the response body is the user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits.
work_hours_dates	No	String	**Definition**: Work date in the format of YYYY-MM-DD. Separate multiple values by commas (,). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
work_hours_types	No	String	**Definition**: Work type. Separate multiple values by commas (,). **Constraints**: The enumerated values are separated by commas (,). **Options**: **21**: R&D and design **22**: backend development **23**: frontend development (web) **24**: frontend development (applet) **25**: frontend development (app) **26**: test and verification **27**: bug fixing **28**: UI design **29**: conference **30**: public affairs **31**: training **32**: research **33**: other **34**: replacement leave **Default value**: N/A

Response Parameters

Status code: 200

Table 4-709 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number. **Options**: N/A

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Parameter	Type	Description
work_hours	Array of **work_hours** objects	**Definition**: Workload list.

Table 4-710 work_hours

Parameter	Type	Description
closed_time	String	**Definition**: End time of a work item. **Options**: N/A
created_time	String	**Definition**: Creation time of a work item. **Options**: N/A
issue_id	Integer	**Definition** Work item ID. **Range** N/A
issue_type	String	**Definition**: Work item type. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
nick_name	String	**Definition**: User alias. **Options**: N/A
project_name	String	**Definition**: Project name. **Options**: N/A

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Parameter	Type	Description
subject	String	**Definition**: Work item title. **Options**: N/A
summary	String	**Definition**: Workload details. **Options**: N/A
user_id	String	**Definition** User ID. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A
work_date	String	**Definition**: Work date. **Options**: N/A
work_hours_created_time	String	**Definition**: Workload creation time. **Options**: N/A
work_hours_num	String	**Definition**: Workloads. **Options**: N/A
work_hours_type_name	String	**Definition**: Work type. **Options**: N/A
work_hours_updated_time	String	**Definition**: Workload update time. **Options**: N/A

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Status code: 400

Table 4-711 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-712 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours

{
  "end_time" : "2020-08-14",
  "limit" : 1,
```

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```
  "offset" : 0
}
```

Example Responses

Status code: 200

```
{
  "work_hours" : [ {
    "project_name" : "demo",
    "nick_name" : "demo",
    "user_id" : "09d75cdd9a00d44d2f17c01875483f26",
    "user_name" : "userName",
    "work_date" : "2020-02-19",
    "work_hours_num" : "2.0",
    "summary" : "summaryXXXXX",
    "work_hours_type_name" : "Backend development",
    "issue_id" : 123456,
    "issue_type" : "Story",
    "subject" : "title",
    "created_time" : "2019-12-17",
    "closed_time" : "2019-12-20",
    "work_hours_created_time" : "2019-12-17 09:00:00",
    "work_hours_updated_time" : "2019-12-20 15:00:00"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowProjectWorkHoursSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowProjectWorkHoursRequest request = new ShowProjectWorkHoursRequest();
        request.withProjectId("{project_id}");
```

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```
        ShowProjectWorkHoursRequestBody body = new ShowProjectWorkHoursRequestBody();
        body.withLimit(1);
        body.withOffset(0);
        body.withEndTime("2020-08-14");
        request.withBody(body);
        try {
            ShowProjectWorkHoursResponse response = client.showProjectWorkHours(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowProjectWorkHoursRequest()
        request.project_id = "{project_id}"
        request.body = ShowProjectWorkHoursRequestBody(
            limit=1,
            offset=0,
            end_time="2020-08-14"
        )
        response = client.show_project_work_hours(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
```

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```
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowProjectWorkHoursRequest{}
    request.ProjectId = "{project_id}"
    endTimeShowProjectWorkHoursRequestBody:= "2020-08-14"
    request.Body = &model.ShowProjectWorkHoursRequestBody{
        Limit: int32(1),
        Offset: int32(0),
        EndTime: &endTimeShowProjectWorkHoursRequestBody,
    }
    response, err := client.ShowProjectWorkHours(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.32 Querying Work Hour Types of a Project

Function

This API is used to query work types of a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/work-hours-type

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Table 4-713 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-714 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **100**. **Default value**: 10
offset	No	Integer	**Definition** Start page number. **Constraints** The value starts from **0** and is an integer multiple of **limit**. **Range** Min.: 0. **Default Value** 0

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Parameter	Mandatory	Type	Description
status	No	Integer	**Definition**: Work type status. You can query work types by status. **Constraints**: N/A **Value range**: Leave this parameter empty (query all work types). **1** (query enabled work types) **2** (query disabled work types) **Default value**: Empty

Request Parameters

Table 4-715 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-716 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number. **Options**: N/A
work_hours_types	Array of **WorkHoursType** objects	**Definition**: Work type list.

Table 4-717 WorkHoursType

Parameter	Type	Description
id	Integer	**Definition** Workload type ID. **Range** N/A
name	String	**Definition**: Work type name. **Value range**: N/A
status	Integer	**Definition** Workload type status. **Range** • **0**: The workload type is deleted. • **1**: The workload type is valid. • **2**: The workload type is discarded.

Status code: 400

Table 4-718 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-719 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours-type
```

Example Responses

Status code: 200

```
{
  "work_hours_types" : [ {
    "id" : 21,
    "name" : "R&D and design",
    "status" : 1
  }, {
    "id" : 22,
    "name" : "Backend development",
    "status" : 1
  }, {
    "id" : 23,
    "name" : "Frontend development (web)",
    "status" : 1
```

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```
 }, {
   "id" : 24,
   "name" : "Frontend development (applet)",
   "status" : 1
 }, {
   "id" : 25,
   "name" : "Frontend development (app)",
   "status" : 1
 }, {
   "id" : 26,
   "name" : "Test and verification",
   "status" : 1
 }, {
   "id" : 27,
   "name" : "Bug fixing",
   "status" : 1
 } ],
 "total" : 7
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectWorkHoursTypeSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectWorkHoursTypeRequest request = new ListProjectWorkHoursTypeRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectWorkHoursTypeResponse response = client.listProjectWorkHoursType(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
```

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```
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectWorkHoursTypeRequest()
        request.project_id = "{project_id}"
        response = client.list_project_work_hours_type(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
```

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```
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectWorkHoursTypeRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectWorkHoursType(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8 Scrum Project Modules

4.8.1 Creating a Project Module

Function

This API is used to create a project module.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/module

Table 4-720 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-721 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-722 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition** Module description. **Constraints** 0 to 255 characters. **Range** The value is a string of 0 to 255 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
module_name	Yes	String	**Definition** Module name. **Constraints** A string of 1 to 30 characters, including letters, digits, hyphens (-), and underscores (_). **Range** 1 to 30 characters. **Default Value** N/A
owner	Yes	**UserRequest** object	**Definition**: User information. **Constraints**: N/A
parent_module_id	No	Integer	**Definition** Parent module ID. It is the value of **module_id** in the response body turned when calling the **Querying the Project Module List** API. **Constraints** A string of 1 to 10 digits. The first digit ranges from 1 to 9. **Range** N/A **Default Value** N/A

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Table 4-723 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	**Definition** 32-character UUID of a user. Obtain the value using the API for obtaining the current user information. The value of **user_id** in the response body is the 32-character UUID of the user. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-724 Response body parameters

Parameter	Type	Description
description	String	**Definition**: Module description. **Options**: N/A
module_id	Integer	**Definition** Module ID. **Range** N/A
module_name	String	**Definition**: Module name. **Options**: N/A
owner	**ModuleOwner** object	**Definition**: Module owner information.

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Table 4-725 ModuleOwner

Parameter	Type	Description
nick_name	String	**Definition**: User alias. **Options**: N/A
user_id	String	**Definition** User ID, which is a string of 32 characters. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A

Status code: 400

Table 4-726 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-727 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/module

{
  "description" : "module demo",
  "module_name" : "demo",
  "parent_module_id" : 1,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

Example Responses

Status code: 200

```
{
  "description" : "module demo",
  "module_name" : "demo",
  "module_id" : 46691,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
    "user_num_id" : 4091,
    "user_name" : "demo_user_name_06",
    "nick_name" : "Module demo"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```

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```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateProjectModuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateProjectModuleRequest request = new CreateProjectModuleRequest();
        request.withProjectId("{project_id}");
        CreateProjectModuleRequestBody body = new CreateProjectModuleRequestBody();
        UserRequest ownerbody = new UserRequest();
        ownerbody.withUserId("09d75cde5180d4481f91c018e89cb8e2");
        body.withOwner(ownerbody);
        body.withParentModuleId(1);
        body.withModuleName("demo");
        body.withDescription("module demo");
        request.withBody(body);
        try {
            CreateProjectModuleResponse response = client.createProjectModule(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateProjectModuleRequest()
        request.project_id = "{project_id}"
        ownerbody = UserRequest(
            user_id="09d75cde5180d4481f91c018e89cb8e2"
        )
        request.body = CreateProjectModuleRequestBody(
            owner=ownerbody,
            parent_module_id=1,
            module_name="demo",
            description="module demo"
        )
        response = client.create_project_module(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateProjectModuleRequest{}
    request.ProjectId = "{project_id}"
    ownerbody := &model.UserRequest{
        UserId: "09d75cde5180d4481f91c018e89cb8e2",
    }
    parentModuleIdCreateProjectModuleRequestBody:= int32(1)
    descriptionCreateProjectModuleRequestBody:= "module demo"
    request.Body = &model.CreateProjectModuleRequestBody{
        Owner: ownerbody,
        ParentModuleId: &parentModuleIdCreateProjectModuleRequestBody,
        ModuleName: "demo",
        Description: &descriptionCreateProjectModuleRequestBody,
    }
    response, err := client.CreateProjectModule(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8.2 Querying the Module List of a Project

Function

This API is used to query the module list of a project.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/modules

Table 4-728 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Table 4-729 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** N/A **Range** 0–10000 **Default Value** 0
limit	Yes	Integer	**Definition** Page size. **Constraints** N/A **Range** 1–1000 **Default Value** 10

Request Parameters

Table 4-730 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-731 Response body parameters

Parameter	Type	Description
modules	Array of **ProjectModule** objects	**Definition**: Module list.
total	Integer	**Definition**: Total number of modules. **Options**: N/A

Table 4-732 ProjectModule

Parameter	Type	Description
children	Array of **ProjectChildModule** objects	**Definition**: Child module information.
deepth	Integer	**Definition**: Module level. **Options**: N/A
is_parent	Boolean	**Definition**: Parent module or not. The options are **true** (parent module) and **false** (non–parent module). **Options**: **true** and **false**
module_id	Integer	**Definition** Module ID. **Range** N/A
module_name	String	**Definition**: Module name. **Options**: N/A

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Parameter	Type	Description
owner	ModuleOwner object	**Definition**: Module owner information.

Table 4-733 ProjectChildModule

Parameter	Type	Description
deepth	Integer	**Definition**: Module level. **Options**: N/A
is_parent	Boolean	**Definition**: Parent module or not. The options are **true** (parent module) and **false** (non–parent module). **Options**: **true** and **false**
module_id	Integer	**Definition** Module ID. **Range** N/A
module_name	String	**Definition**: Module name. **Options**: N/A
owner	ModuleOwner object	**Definition**: Template owner information.
parent_module_id	Integer	**Definition** Parent module ID. **Range** N/A

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Table 4-734 ModuleOwner

Parameter	Type	Description
nick_name	String	**Definition**: User alias. **Options**: N/A
user_id	String	**Definition** User ID, which is a string of 32 characters. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A

Status code: 400

Table 4-735 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-736 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/modules
```

Example Responses

Status code: 200

```
{
  "total" : 1,
  "modules" : [ {
    "module_id" : 1,
    "module_name" : "demo",
    "owner" : {
      "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
      "user_num_id" : 4091,
      "user_name" : "demo_user_name_06",
      "nick_name" : "demo"
    },
    "deepth" : 1,
    "is_parent" : true,
    "children" : [ {
      "module_id" : 1,
      "module_name" : "demo",
      "owner" : {
        "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
        "user_num_id" : 4091,
        "user_name" : "demo_user_name_06",
        "nick_name" : "demo"
      },
      "deepth" : 1,
      "is_parent" : true,
      "parent_module_id" : 1
    } ]
  } ]
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectModulesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectModulesRequest request = new ListProjectModulesRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectModulesResponse response = client.listProjectModules(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectModulesRequest()
        request.project_id = "{project_id}"
        response = client.list_project_modules(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.ListProjectModulesRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectModules(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8.3 Updating a Project Module

Function

This API is used to update a project module.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v4/projects/{project_id}/modules/{module_id}

Table 4-737 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
module_id	Yes	Integer	**Definition** Module ID, which is the value of **id** in the response body returned by calling the **Querying the Project Module List** API. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-738 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-739 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition** Module description. **Constraints** 0 to 255 characters. **Range** N/A **Default Value** N/A
module_name	Yes	String	**Definition** Module name. **Constraints** 0 to 30 characters, excluding the following characters: /\:*? **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
owner	Yes	UserRequest object	**Definition**: Module owner. **Constraints**: JSON object. **Value range**: N/A **Default value**: N/A

Table 4-740 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	**Definition** 32-character UUID of a user. Obtain the value using the API for obtaining the current user information. The value of **user_id** in the response body is the 32-character UUID of the user. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-741 Response body parameters

Parameter	Type	Description
description	String	**Definition**: Module description. **Options**: N/A

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Parameter	Type	Description
module_id	Integer	**Definition** Module ID. **Range** N/A
module_name	String	**Definition**: Module name. **Options**: N/A
owner	**ModuleOwner** object	**Definition**: Module owner information.

Table 4-742 ModuleOwner

Parameter	Type	Description
nick_name	String	**Definition**: User alias. **Options**: N/A
user_id	String	**Definition** User ID, which is a string of 32 characters. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A
user_num_id	Integer	**Definition** Digital ID of a user. **Range** N/A

Status code: 400

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Table 4-743 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-744 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/662086

{
  "description" : "module demo",
  "module_name" : "demo",
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

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Example Responses

Status code: 200

```
{
  "description" : "module name",
  "module_name" : "demo",
  "module_id" : 46691,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
    "user_num_id" : 4091,
    "user_name" : "demo_user_name_06",
    "nick_name" : "demo"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateProjectModuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateProjectModuleRequest request = new UpdateProjectModuleRequest();
        request.withProjectId("{project_id}");
        request.withModuleId({module_id});
        UpdateProjectModuleRequestBody body = new UpdateProjectModuleRequestBody();
        UserRequest ownerbody = new UserRequest();
        ownerbody.withUserId("09d75cde5180d4481f91c018e89cb8e2");
        body.withOwner(ownerbody);
        body.withModuleName("demo");
        body.withDescription("module demo");
        request.withBody(body);
        try {
            UpdateProjectModuleResponse response = client.updateProjectModule(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
```

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```
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateProjectModuleRequest()
        request.project_id = "{project_id}"
        request.module_id = {module_id}
        ownerbody = UserRequest(
            user_id="09d75cde5180d4481f91c018e89cb8e2"
        )
        request.body = UpdateProjectModuleRequestBody(
            owner=ownerbody,
            module_name="demo",
            description="module demo"
        )
        response = client.update_project_module(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
```

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```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateProjectModuleRequest{}
    request.ProjectId = "{project_id}"
    request.ModuleId = int32({module_id})
    ownerbody := &model.UserRequest{
        UserId: "09d75cde5180d4481f91c018e89cb8e2",
    }
    descriptionUpdateProjectModuleRequestBody:= "module demo"
    request.Body = &model.UpdateProjectModuleRequestBody{
        Owner: ownerbody,
        ModuleName: "demo",
        Description: &descriptionUpdateProjectModuleRequestBody,
    }
    response, err := client.UpdateProjectModule(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

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Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8.4 Deleting a Project Module

Function

This API is used to delete a project module.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/modules/{module_id}

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Table 4-745 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
module_id	Yes	Integer	**Definition** Module ID, which is the value of **id** in the response body returned by calling the **Querying the Project Module List** API. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-746 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-747 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-748 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteProjectModuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteProjectModuleRequest request = new DeleteProjectModuleRequest();
        request.withProjectId("{project_id}");
        request.withModuleId({module_id});
        try {
            DeleteProjectModuleResponse response = client.deleteProjectModule(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteProjectModuleRequest()
        request.project_id = "{project_id}"
        request.module_id = {module_id}
        response = client.delete_project_module(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteProjectModuleRequest{}
    request.ProjectId = "{project_id}"
    request.ModuleId = int32({module_id})
    response, err := client.DeleteProjectModule(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9 Scrum Project Domains

4.9.1 Creating a Project Domain

Function

This API is used to create domain enumeration values for a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v4/projects/{project_id}/domain

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Table 4-749 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-750 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-751 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Domain name. **Constraints** The value can contain 1 to 31 characters, must start with a letter or digit, and can contain letters, digits, hyphens (-), and underscores (_). **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-752 Response body parameters

Parameter	Type	Description
domain_id	String	**Definition**: Domain ID. **Options**: N/A
domain_name	String	**Definition**: Domain name. **Options**: N/A

Status code: 400

Table 4-753 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-754 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
POST https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/domain

{
  "domain_name" : "demo"
}
```

Example Responses

Status code: 200

```
{
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af",
  "domain_name" : "demo"
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateProjectDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateProjectDomainRequest request = new CreateProjectDomainRequest();
        request.withProjectId("{project_id}");
        CreateProjectDomainRequestBody body = new CreateProjectDomainRequestBody();
        body.withDomainName("demo");
        request.withBody(body);
        try {
            CreateProjectDomainResponse response = client.createProjectDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
```

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```
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateProjectDomainRequest()
        request.project_id = "{project_id}"
        request.body = CreateProjectDomainRequestBody(
            domain_name="demo"
        )
        response = client.create_project_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.CreateProjectDomainRequest{}
    request.ProjectId = "{project_id}"
    request.Body = &model.CreateProjectDomainRequestBody{
        DomainName: "demo",
    }
    response, err := client.CreateProjectDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9.2 Querying the Domain List of a Project

Function

This API is used to query the project domain list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/domains

Table 4-755 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Table 4-756 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** N/A **Range** Min.: 0. **Default Value** N/A
limit	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 1 to 100 **Default Value** N/A

Request Parameters

Table 4-757 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-758 Response body parameters

Parameter	Type	Description
domains	Array of **CreateProjectDomainResponseBody** objects	**Definition**: Domain list.
total	Integer	**Definition**: Total number of domains. **Options**: N/A

Table 4-759 CreateProjectDomainResponseBody

Parameter	Type	Description
domain_id	String	**Definition**: Domain ID. **Options**: N/A
domain_name	String	**Definition**: Domain name. **Options**: N/A

Status code: 400

Table 4-760 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-761 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/domains
```

Example Responses

Status code: 200

```
{
  "total" : 1,
  "domains" : [ {
    "domain_name" : "demo",
    "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectDomainsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectDomainsRequest request = new ListProjectDomainsRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectDomainsResponse response = client.listProjectDomains(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
```

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```
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectDomainsRequest()
        request.project_id = "{project_id}"
        response = client.list_project_domains(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectDomainsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectDomains(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
```

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```
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9.3 Updating a Project Domain

Function

This API is used to update a project domain.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

PUT /v4/projects/{project_id}/domains/{domain_id}

Table 4-762 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
domain_id	Yes	String	**Definition** Domain ID. You can obtain the value using the **Querying the Project Domain List** API. The value of **domain_id** in the response message body is the project domain ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** Max.: 32 characters. **Default Value** N/A

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Request Parameters

Table 4-763 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-764 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Domain name. **Constraints** The value can contain 1 to 31 characters, must start with a letter or digit, and can contain letters, digits, hyphens (-), and underscores (_). **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-765 Response body parameters

Parameter	Type	Description
domain_id	String	**Definition**: Domain ID. **Options**: N/A
domain_name	String	**Definition**: Domain name. **Options**: N/A

Status code: 400

Table 4-766 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-767 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/662086

{
  "domain_name" : "test"
}
```

Example Responses

Status code: 200

```
{
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af",
  "domain_name" : "Domain demo"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateProjectDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
```

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```
            .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateProjectDomainRequest request = new UpdateProjectDomainRequest();
        request.withProjectId("{project_id}");
        request.withDomainId("{domain_id}");
        CreateProjectDomainRequestBody body = new CreateProjectDomainRequestBody();
        body.withDomainName("test");
        request.withBody(body);
        try {
            UpdateProjectDomainResponse response = client.updateProjectDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateProjectDomainRequest()
        request.project_id = "{project_id}"
        request.domain_id = "{domain_id}"
        request.body = CreateProjectDomainRequestBody(
            domain_name="test"
        )
        response = client.update_project_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateProjectDomainRequest{}
    request.ProjectId = "{project_id}"
    request.DomainId = "{domain_id}"
    request.Body = &model.CreateProjectDomainRequestBody{
        DomainName: "test",
    }
    response, err := client.UpdateProjectDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9.4 Canceling the Association Between the Domain and the Project

Function

This API is used to disassociate a domain from a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v4/projects/{project_id}/domains/{domain_id}

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Table 4-768 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
domain_id	Yes	String	**Definition** Domain ID. You can obtain the value using the **Querying the Project Domain List** API. The value of **domain_id** in the response message body is the project domain ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** Max.: 32 characters. **Default Value** N/A

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Request Parameters

Table 4-769 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-770 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

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Table 4-771 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/6354
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CancelProjectDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CancelProjectDomainRequest request = new CancelProjectDomainRequest();
        request.withProjectId("{project_id}");
        request.withDomainId("{domain_id}");
        try {
            CancelProjectDomainResponse response = client.cancelProjectDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CancelProjectDomainRequest()
        request.project_id = "{project_id}"
        request.domain_id = "{domain_id}"
        response = client.cancel_project_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CancelProjectDomainRequest{}
    request.ProjectId = "{project_id}"
    request.DomainId = "{domain_id}"
    response, err := client.CancelProjectDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.10 Scrum Project Settings

4.10.1 Updating Template Field Configurations

Function

This API is used to update the mandatory status and display status of template fields. The caller passes the field configuration list through the API. The system verifies and updates the **is_required** and **is_visible** attributes of the fields one by one.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v2/projects/{project_id}/field-templates/{template_id}

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Table 4-772 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
template_id	Yes	String	**Definition** Template ID, which is obtained by calling the API for **querying template field configurations**. The value of **template_id** in the response body is the template ID. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-773 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-774 Request body parameters

Parameter	Mandatory	Type	Description
fields	Yes	Array of **fields** objects	**Definition** Field configuration list, which is used to update the mandatory and display status of fields in the template in batches. **Constraints** Array type. Each element contains the **field**, **is_required**, and **is_visible** attributes. **Range** N/A **Default Value** N/A

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Table 4-775 fields

Parameter	Mandatory	Type	Description
field	Yes	String	**Definition** Field ID, which specifies the field to be updated. **Constraints** N/A **Range** N/A **Default Value** N/A
is_required	No	Integer	**Definition** Whether a field is mandatory. **Constraints** The value can be **0** or **1**. **Range** • **0**: optional • **1**: mandatory **Default Value** 0
is_visible	No	Boolean	**Definition** Whether the field is displayed. **Constraints** The value can be **true** or **false**. **Range** • **true**: displayed • **false**: hidden **Default Value** true

Response Parameters

Status code: 200

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Table 4-776 Response body parameters

Parameter	Type	Description
success	Boolean	**Definition** Whether the request is successful. **Range** • **true**: success. • **false**: failure.
error_configs	Array of **error_configs** objects	**Definition** Information about the field template that fails to be updated. **Range** N/A

Table 4-777 error_configs

Parameter	Type	Description
field	String	**Definition** Field name. **Range** N/A
field_type	String	**Definition** Field type. **Range** N/A
is_visible	Boolean	**Definition** Visible or not. **Range** N/A
is_required	Integer	**Definition** Mandatory or not. **Range** N/A
error_message	String	**Definition** Error information. **Range** N/A

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Status code: 400

Table 4-778 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Updating template field configurations

```
PUT https://{endpoint}/v2/projects/a6a33eca679b435b85574bd2fde46ce7/field-templates/384006

{
  "fields" : [ {
    "field" : "developer",
    "is_required" : 1,
    "is_visible" : true
  }, {
    "field" : "custom_field16",
    "is_required" : 0,
    "is_visible" : true
  }, {
    "field" : "status_id",
    "is_required" : 0,
    "is_visible" : true
  } ]
}
```

Example Responses

Status code: 200

```
{
  "success" : false,
  "error_configs" : [ {
    "field" : "assigned_to_id",
    "field_type" : "select",
    "is_required" : 1,
    "error_message" : "System field is_required cannot be changed."
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request for updating template field configurations.
400	Response to an interface request failure.

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Error Codes

See **Error Codes**.

4.10.2 Querying Template Field Configurations

Function

This API is used to query the template field configuration list of a project. You can specify **tracker_id** to filter templates of a specific work item type.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/projects/{project_id}/field-templates

Table 4-779 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Table 4-780 Query Parameters

Parameter	Mandatory	Type	Description
tracker_id	No	Integer	**Definition** Work item type ID, which is used to filter templates of a specific work item type. **Constraints** N/A **Range** • **2**: task • **3**: bug • **5**: epic • **6**: feature • **7**: story **Default Value** N/A (All types of templates are returned.)

Request Parameters

Table 4-781 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-782 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition** Returned result, including the template field configuration information. **Range** N/A
status	String	**Definition** Request result. **Range** • **success**: The template field configuration is queried successfully. • **failed**: Failed to query the template field configuration.

Table 4-783 result

Parameter	Type	Description
templates	Array of **templates** objects	**Definition** Template list, including the configuration information of multiple templates. **Range** N/A

Table 4-784 templates

Parameter	Type	Description
template_id	String	**Definition** Template ID, which uniquely identifies a template. **Range** N/A

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Parameter	Type	Description
tracker_id	Integer	**Definition** Work item type ID, which identifies the work item type to which the template belongs. **Range** • **2**: task • **3**: bug • **5**: epic • **6**: feature • **7**: story
tracker_name	String	**Definition** Work item type name, corresponding to the name of **tracker_id**. **Range** N/A
description	String	**Definition** Template description, which describes the usage or function of the template. **Range** N/A
fields	Array of **fields** objects	**Definition** Field configuration list, including the configuration information of all fields in the template. **Range** N/A

Table 4-785 fields

Parameter	Type	Description
custom	Boolean	**Definition** Whether the field is a custom field. **Range** • **true**: custom field • **false**: built-in field

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Parameter	Type	Description
field	String	**Definition** Field ID, which uniquely identifies a field. **Range** N/A
field_type	String	**Definition** Field type, which describes the data type or display mode of a field. **Range** • **select**: drop-down list • **text** • **date** • **number** • **radio**: single-choice list • **checkbox**: multi-choice list • **user**: single-choice user • **multiChoiceUsers**: multi-choice user
type_options	String	**Definition** Field type options, which describe the optional configurations of the field type. **Range** N/A
default_value	String	**Definition** Default value of a field, which is the initial value when a work item is created. **Range** N/A
default_option	**default_option** object	**Definition** Default option, which is the default option when the field type is drop-down list. **Range** N/A

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Parameter	Type	Description
is_visible	Boolean	**Definition** Whether the field is displayed. **Range** • **true**: displayed • **false**: hidden
position	Integer	**Definition** Field display sequence. Fields with smaller values appear before fields with larger values. **Range** A positive integer.
is_required	Integer	**Definition** Whether the field is mandatory. **Range** • **0**: optional • **1**: mandatory
last	Boolean	**Definition** Whether the field is the last one in the group. **Range** • **true**: The field is the last one. • **false**: The field is not the last one.
option	Array of **option** objects	**Definition** List of options for a field. This parameter is valid only when the field type is drop-down list. **Range** N/A
field_name	String	**Definition** Field name displayed to users. **Range** N/A

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Table 4-786 default_option

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A
name	String	**Definition** Option name. **Range** N/A

Table 4-787 option

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A
name	String	**Definition** Option name. **Range** N/A

Status code: 400

Table 4-788 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying all templates and their field configurations in a project

```
GET https://{endpoint}/v2/projects/a6a33eca679b435b85574bd2fde46ce7/field-templates?tracker_id=7
```

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Example Responses

Status code: 200


```
{
  "result" : {
    "templates" : [ {
      "id" : 384006,
      "name" : "12345",
      "description" : "",
      "tracker_id" : 7,
      "field_configs" : [ {
        "field" : "module_id",
        "name" : "Module",
        "field_type" : "select",
        "is_required" : 0,
        "is_visible" : true,
        "position" : 3
      }, {
        "field" : "fixed_version_id",
        "name" : "Iteration",
        "field_type" : "select",
        "is_required" : 0,
        "is_visible" : true,
        "position" : 4
      } ]
    } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying the template field configuration list in a project.
400	Response to an interface request failure.

Error Codes

See **Error Codes**.

4.11 Scrum Project Plans

4.11.1 Querying a Plan

Function

This API is used to query a plan.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/workitem/plan

Table 4-789 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
status_id	No	String	**Definition**: Work item status ID. **Constraints**: N/A **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected **Default value**: N/A
plan_id	No	String	**Definition**: Plan ID, which can be obtained by calling the **Querying All Plans Visible to the Current User in Pagination Mode** API. The value of **id** in the response message body is the plan ID. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-790 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-791 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of querying the plan. **Value range**: N/A
status	String	**Definition**: Returned status of querying the plan. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-792 result

Parameter	Type	Description
total	Integer	**Definition**: Total number of work items. **Value range**: N/A
total_count	Integer	**Definition**: Number of work items. **Value range**: N/A
issues	Array of **IssueNew** objects	**Definition**: Work item information. **Value range**: N/A

Table 4-793 IssueNew

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
subject	String	**Definition**: Owner of a work item. **Value range**: N/A
project	**Project** object	**Definition**: Project. **Value range**: N/A

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Parameter	Type	Description
isParent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
findReleaseDev	String	**Definition**: Releaser. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
assigned_to	**assigned_to** object	**Definition**: Work item owner. **Value range**: N/A
status_attribute	**StatusAttribute-VO** object	**Definition**: Work item status. **Value range**: N/A

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Parameter	Type	Description
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Release version of a work item. **Value range**: N/A
author	**author** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A

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Parameter	Type	Description
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: yes **false**: no
deleted	Boolean	**Definition**: Deleted or not. **Value range**: **true**: yes **false**: no
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Whether the work item has been archived. **Value range**: **true**: yes **false**: no
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A

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Parameter	Type	Description
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0**: (not closed) **1**: (closed)
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-794 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

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Table 4-795 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-796 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**

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Parameter	Type	Description
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-797 assigned_to

Parameter	Type	Description
firstName	String	**Definition**: Username. **Value range**: N/A
lastName	String	**Definition**: Username. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assignedNickName	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-798 StatusAttributeVO

Parameter	Type	Description
id	String	**Definition**: Project ID. **Value range**: N/A
name	String	**Definition**: Name. **Value range**: N/A

Table 4-799 Severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: information

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Table 4-800 author

Parameter	Type	Description
firstName	String	**Definition**: Username. **Value range**: N/A
lastName	String	**Definition**: Username. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
authorNickName	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

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Table 4-801 Priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

Table 4-802 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

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Example Requests

```
{endpoint}/v2/workitem/plan
```

Example Responses

Status code: 200


```
{
  "result" : {
    "total" : 1,
    "total_count" : 1,
    "issues" : [ {
      "subject" : "Test",
      "project" : { },
      "findReleaseDev" : "",
      "tracker" : {
        "name" : "Epic",
        "id" : 5
      },
      "id" : 69824084,
      "releaseDev" : "",
      "start_date" : "2025-07-28",
      "assigned_to" : {
        "firstName" : "hw_008618814464665_01",
        "assignedNickName" : "asdf4",
        "name" : "hw19145027",
        "id" : 233087
      },
      "status_attribute" : {
        "name" : "To Do",
        "id" : 31845847
      },
      "severity" : { },
      "author" : {
        "firstName" : "hw_008618814464665_01",
        "name" : "hw19145027",
        "id" : 233087,
        "authorNickName" : "asdf4"
      },
      "module" : { },
      "due_date" : "2025-07-29",
      "priority" : {
        "name" : "Medium",
        "id" : 2
      },
      "deleted" : false,
      "fixed_version" : { },
      "is_archived" : false,
      "domain" : { },
      "developer" : { },
      "closeder" : { },
      "position" : "69824084.0000000000",
      "closed_flag" : 0,
      "assigned_cc_user" : [ ],
      "status" : {
        "name" : "New",
        "id" : 1
      }
    } ]
  },
  "status" : "success"
}
```


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Status Codes

Status Code	Description
200	Response to a successful request for querying plans.

Error Codes

See **Error Codes**.

4.11.2 Establishing an Association Between a Work Item and a Gantt Chart

Function

This API is used to associate work items with Gantt charts.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/plan/{project_id}/{plan_id}/issue

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Table 4-803 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Obtaining the Sprint List of a Specified Project** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-804 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-805 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of integers	**Definition** ID of the work item to be associated with the Gantt chart. **Constraints** A maximum of 100 work items can be associated.

Response Parameters

Status code: 200

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Table 4-806 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status of the response body. **Value range**: **success**: successful **error**: failed

Example Requests

```
POST https://{endpoint}/v3/plan/5192de5eb435430c8cd41c6ae6028848/
f29c3f16d5f54cbab5e167ef9eed3baf/issue

[ 9192109, 9191020, 9184553, 9185630 ]
```

Example Responses

Status code: 200

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See **Error Codes**.

4.11.3 Batch Deleting Work Items from the Current Plan

Function

This API is used to batch delete work items from the current plan.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

DELETE /v3/plan/{project_id}/{plan_id}/issue

Table 4-807 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Obtaining the Sprint List of a Specified Project** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-808 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status of the response body. **Value range**: **success**: successful **error**: failed

Example Requests

```
POST https://{endpoint}/v3/plan/5192de5eb435430c8cd41c6ae6028848/
f29c3f16d5f54cbab5e167ef9eed3baf/issue
```

Example Responses

Status code: 200

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See **Error Codes**.

4.11.4 Deleting Plans in Batches

Function

This API is used to delete plans in batches.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

DELETE /v3/plan/{project_id}/management

Table 4-809 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-810 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	**Definition**: 32-character UUID of a plan. **Constraints**: N/A

Response Parameters

Status code: 200

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Table 4-811 Response body parameters

Parameter	Type	Description
status	String	**Definition**: API response status. **Value range**: **success**: successful **error**: failed

Example Requests

```
GET https://{endpoint}/v3/plan/e2da96a5d2c845e284f0ad47f8ca8cb1/management

[ "0579f0388ed84b00884a09c49862a229", "2a49ac3c37c14facacd2576c81b6bf01" ]
```

Example Responses

Status code: 200

```
{
  "status" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteScrumPlanInProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
```

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```
                .build();
        DeleteScrumPlanInProjectRequest request = new DeleteScrumPlanInProjectRequest();
        request.withProjectId("{project_id}");
        try {
            DeleteScrumPlanInProjectResponse response = client.deleteScrumPlanInProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteScrumPlanInProjectRequest()
        request.project_id = "{project_id}"
        response = client.delete_scrum_plan_in_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)
```

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```
func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteScrumPlanInProjectRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.DeleteScrumPlanInProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	**Definition**: Returned success data in JSON format. **Options**: N/A

Error Codes

See **Error Codes**.

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4.11.5 Creating a Requirement Plan

Function

This API is used to create a requirement plan.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/plan/{project_id}/management

Table 4-812 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-813 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition**: Group name. **Constraints**: N/A **Options**: N/A **Default value**: N/A
type	Yes	String	**Definition**: Plan type. **Constraints**: N/A **Value range**: **gantt** (Gantt chart) **mind** (mind map) **Default value**: **mind**

Response Parameters

Status code: 200

Table 4-814 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success** **error**: failed

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Table 4-815 result

Parameter	Type	Description
id	String	**Definition** Plan ID. **Range** N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition** ID of the project to which the plan belongs. **Range** N/A
img_url	String	**Definition**: Address for storing images. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

Table 4-816 creator

Parameter	Type	Description
user_id	String	**Definition** User ID of the creator. **Range** N/A

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Parameter	Type	Description
domain_id	String	**Definition** Tenant ID. **Range** N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/management

{
  "name" : "test",
  "type" : "gantt"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "name" : "test",
    "type" : "gantt",
    "project_id" : "919bb351ef424e2daaf3dd80c179fae9",
    "creator" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "Sam",
      "first_name" : "devcloud_devcloud_01"
    }
  },
  "status" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
```

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```
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateScrumPlanToProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateScrumPlanToProjectRequest request = new CreateScrumPlanToProjectRequest();
        request.withProjectId("{project_id}");
        body.withBody("{name=test, type=gantt}");
        request.withBody(listBodyBody);
        try {
            CreateScrumPlanToProjectResponse response = client.createScrumPlanToProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)
```

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```
    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateScrumPlanToProjectRequest()
        request.project_id = "{project_id}"
        request.body = listBodyBody
        response = client.create_scrum_plan_to_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateScrumPlanToProjectRequest{}
    request.ProjectId = "{project_id}"
    bodyBody:= "{name=test, type=gantt}"
    request.Body = listBodyBody
    response, err := client.CreateScrumPlanToProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

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```
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Creates a requirement plan response.

Error Codes

See **Error Codes**.

4.11.6 Updating a Requirement Plan

Function

This API is used to update a requirement plan.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v3/plan/{project_id}/management/{plan_id}

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Table 4-817 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Obtaining the Sprint List of a Specified Project** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-818 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-819 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition**: Group name. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-820 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.

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Parameter	Type	Description
status	String	**Definition**: Processing status of a request. **Value range**: **success** **error**: failed

Table 4-821 result

Parameter	Type	Description
id	String	**Definition** Plan ID. **Range** N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition** ID of the project to which the plan belongs. **Range** N/A
img_url	String	**Definition**: Address for storing images. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

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Table 4-822 creator

Parameter	Type	Description
user_id	String	**Definition** User ID of the creator. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Example Requests

```
PUT https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/management/
bf56512ab4e544c29d03d068711ca56a

{
  "name" : "test"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "name" : "test"
  },
  "status" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

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```
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateScrumPlanInProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateScrumPlanInProjectRequest request = new UpdateScrumPlanInProjectRequest();
        request.withProjectId("{project_id}");
        request.withPlanId("{plan_id}");
        body.withBody("{name=test}");
        request.withBody(listBodyBody);
        try {
            UpdateScrumPlanInProjectResponse response = client.updateScrumPlanInProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]
```

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```
    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateScrumPlanInProjectRequest()
        request.project_id = "{project_id}"
        request.plan_id = "{plan_id}"
        request.body = listBodyBody
        response = client.update_scrum_plan_in_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateScrumPlanInProjectRequest{}
    request.ProjectId = "{project_id}"
    request.PlanId = "{plan_id}"
    bodyBody:= "{name=test}"
    request.Body = listBodyBody
```

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```
    response, err := client.UpdateScrumPlanInProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response of the API for updating a requirement plan.

Error Codes

See **Error Codes**.

4.11.7 Updating a Thumbnail

Function

This API is used to update a thumbnail.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v3/plan/{project_id}/management/{plan_id}/img

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Table 4-823 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Obtaining the Sprint List of a Specified Project** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-824 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-825 Request body parameters

Parameter	Mandatory	Type	Description
img_url	Yes	String	**Definition** Thumbnail URL. **Constraints** Image URI, in the format of **/v1/upload/{placeholder}/{6-digit number}/{file name}.{extension}**. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-826 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success** **error**: failed

Table 4-827 result

Parameter	Type	Description
id	String	**Definition** Plan ID. **Range** N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition** ID of the project to which the plan belongs. **Range** N/A
img_url	String	**Definition**: Address for storing images. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

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Table 4-828 creator

Parameter	Type	Description
user_id	String	**Definition** User ID of the creator. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Status code: 400

Table 4-829 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/management/
bf56512ab4e544c29d03d068711ca56a/img

{
```

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```
  "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
  },
  "status" : "success"
}
```

Status code: 400

```
{
  "error_code" : "PM.02100011",
  "error_msg" : "No access permission."
}
```

Status Codes

Status Code	Description
200	Updates the thumbnail response.
400	Error response indicating no permission.

Error Codes

See **Error Codes**.

4.11.8 Querying the Plan List

Function

This API is used to query all plans visible to users in the current project in pagination mode.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/plan/{project_id}/managements

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Table 4-830 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-831 Request body parameters

Parameter	Mandatory	Type	Description
search	No	String	**Definition**: Group name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
user_ids	No	Array of strings	**Definition** Creator UUID list. You can obtain the value using the API for obtaining the current user information. The value of **user_id** in the response body is the 32-character UUID of the user. **Constraints** N/A

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Parameter	Mandatory	Type	Description
sort	No	String	**Definition**: Sorting rule of the queried data. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_no	Yes	Integer	**Definition**: Current page number. **Constraints**: N/A **Value range**: Minimum value: **1**. Maximum value: **9,999**. **Default value**: **1**
type	No	String	**Definition**: Plan type. **Constraints**: N/A **Value range**: **gantt** (Gantt chart) **mind** (mind map) **Default value**: N/A
page_size	Yes	Integer	**Definition**: Number of rows on each page. **Constraints**: N/A **Value range**: Minimum value: **1**. Maximum value: **200**. **Default value**: **1**

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Response Parameters

Status code: 200

Table 4-832 Response body parameters

Parameter	Type	Description
plans	Array of **PlanVO** objects	**Definition**: Project plan list.
total	Long	**Definition**: Total number of queried project plans. **Options**: N/A
minds	Long	**Definition**: Number of plans whose type is mind map. **Options**: N/A
gantts	Long	**Definition**: Number of plans whose type is Gantt chart. **Options**: N/A

Table 4-833 PlanVO

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success** **error**: failed

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Table 4-834 result

Parameter	Type	Description
id	String	**Definition** Plan ID. **Range** N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition** ID of the project to which the plan belongs. **Range** N/A
img_url	String	**Definition**: Address for storing images. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

Table 4-835 creator

Parameter	Type	Description
user_id	String	**Definition** User ID of the creator. **Range** N/A

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Parameter	Type	Description
domain_id	String	**Definition** Tenant ID. **Range** N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Status code: 400

Table 4-836 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
POST https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/managements

{
  "sort" : "",
  "search" : "",
  "page_no" : 1,
  "page_size" : 15,
  "type" : "gantt",
  "user_ids" : [ "a360371833bf4c558f796fd707b44daf" ]
}
```

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Example Responses

Status code: 200

```
{
  "plans" : [ {
    "result" : {
      "id" : "f29c3f16d5f54cbab5e167ef9eed3baf",
      "name" : "1565",
      "type" : "gantt",
      "project_id" : "5192de5eb435430c8cd41c6ae6028848",
      "img_url" : "string",
      "creator" : {
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "nick_name" : "Sam 1",
        "first_name" : "devcloud_devcloud_01"
      }
    },
    "status" : "success"
  } ],
  "total" : 0,
  "minds" : 0,
  "gantts" : 0
}
```

Status code: 400

```
{
  "error_code" : "PM.02100011",
  "error_msg" : "No access permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowScrumPlansByConditionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
```

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```
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowScrumPlansByConditionRequest request = new ShowScrumPlansByConditionRequest();
        request.withProjectId("{project_id}");
        body.withBody("{sort=, search=, page_no=1, page_size=15, type=gantt,
user_ids=[a360371833bf4c558f796fd707b44daf]}");
        request.withBody(listBodyBody);
        try {
            ShowScrumPlansByConditionResponse response = client.showScrumPlansByCondition(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowScrumPlansByConditionRequest()
        request.project_id = "{project_id}"
        request.body = listBodyBody
        response = client.show_scrum_plans_by_condition(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowScrumPlansByConditionRequest{}
    request.ProjectId = "{project_id}"
    bodyBody:= "{sort=, search=, page_no=1, page_size=15, type=gantt, user_ids=[a360371833bf4c558f796fd707b44daf]]}"
    request.Body = listBodyBody
    response, err := client.ShowScrumPlansByCondition(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Query all plan data visible to the current user in the project.
400	Error response indicating no permission.

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Error Codes

See **Error Codes**.

4.12 Scrum Project Statuses

4.12.1 Querying All Statuses of a Transaction

Function

This API is used to query the all statuses of a transaction.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/issue-status/all

Table 4-837 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	**Definition**: Work item type ID. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Request Parameters

Table 4-838 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-839 Response body parameters

Parameter	Type	Description
result	**result** object	Work item status information.
status	String	**Definition**: Returned status.

Table 4-840 result

Parameter	Type	Description
2	Array of **IssueStatusV2** objects	Task status list.
3	Array of **IssueStatusV2** objects	Bug status list.
5	Array of **IssueStatusV2** objects	Epic status list.
6	Array of **IssueStatusV2** objects	Feature status list.
7	Array of **IssueStatusV2** objects	Story status list.
issue_statuses	Array of **IssueStatusV2** objects	List of all statuses.

Table 4-841 IssueStatusV2

Parameter	Type	Description
id	Integer	**Definition**: Primary key ID. **Value range**: N/A
status_id	String	**Definition**: Work item status ID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Work item status name. **Value range**: N/A
is_closed	Integer	**Definition**: Whether a work item status is the done status. **Value range**: **1** (done status) **0** (not done status)
position	Integer	**Definition**: Position of a work item status in the status list. **Value range**: N/A
default_done_ratio	Integer	**Definition**: Default completion rate. **Value range**: N/A
is_initial	Integer	**Definition**: Whether a work item is initialized. **Value range**: **1** (initiated) **0** (not initialized)
issue_field_configs	Array of **IssueFieldConfig** objects	Work item fields.
flag	Integer	**Definition**: Whether a work item status is deleted. **Value range**: **1** (deleted) **0** (not deleted)
status_attribute	Integer	**Definition**: Status attribute ID. **Value range**: N/A

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Parameter	Type	Description
issue_status_attribute	**IssueStatusAttribute** object	Work item status.

Table 4-842 IssueFieldConfig

Parameter	Type	Description
custom	Boolean	**Definition**: Whether the status is custom. **Value range**: **true** (custom) **false** (not custom)
default_option	Array of **OptionVOV2** objects	**Definition**: Use the default.
default_options	Array of **OptionVOV2** objects	**Definition**: Use the default.
default_value	String	**Definition**: Default value of a field. **Value range**: N/A
field	String	**Definition**: Field. **Value range**: N/A

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Parameter	Type	Description
field_type	String	**Definition**: Field value type. **Value range**: **textArea**: multi-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. ***text***: *single-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. **select**: drop-down list, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized. ***number***: *number whose value range is set by users during custom field creation.* ***date***: *date which is accurate to year, month, and day.* ***time_date***: *date which is accurate to hour, minute, and second. The value is a timestamp of the long integer type, for example,* ***1839340800000***. ***checkbox***: *check box, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters and a maximum of 60 options can be customized. **radio**: radio box, containing letters, digits, underscore (_), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized.
is_required	Integer	**Definition**: Whether the status is mandatory. **Value range**: **0** (not mandatory) **1** (mandatory)
is_visible	Boolean	**Definition**: Whether the status is visible. **Value range**: **true** (visible) **false** (invisible)

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Parameter	Type	Description
last	Boolean	**Definition**: Whether the status is at the end. **Value range**: **true** (at the end) **false** (not at the end)
name	String	**Definition**: Field name. **Options**: N/A
option	Array of **OptionVOV2** objects	**Definition**: Field options.
options	String	**Definition**: Field configuration. **Value range**: N/A
position	Integer	**Definition**: Position ID of the status on the page. **Value range**: N/A
project_id	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Value range**: N/A
tracker_list	Array of integers	**Definition**: Work item type list.
type_options	String	**Definition**: Field value type. **Value range**: **select** (multiple values available for selection) **fixed_value** (fixed value)

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Table 4-843 OptionVOV2

Parameter	Type	Description
id	String	**Definition**: Option ID. **Options**: N/A
name	String	**Definition**: Option name. **Options**: N/A

Table 4-844 IssueStatusAttribute

Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Value range**: N/A
name	String	**Definition**: Status name. **Value range**: N/A
type	String	**Definition**: State type. **Value range**: To Do Doing Done

Example Requests

```
{endpoint}/v2/issue-status/all?project_id=21f161ddf28942ac90c7762be8a455ee&tracker_id=7
```

Example Responses

Status code: 200

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```
{
  "result" : {
    "2" : [ {
      "id" : 1,
      "status_id" : "58435fff2a3c451aaf91cda38fdc80c1",
      "name" : "New",
      "is_closed" : 0,
      "is_initial" : 1,
      "issue_field_configs" : [ {
        "custom" : false,
        "field" : "assigned_to_id",
        "name" : "Handler",
        "field_type" : "fixed_value",
        "type_options" : "select,fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 1,
        "is_required" : 2,
        "last" : true,
        "options" : ""
      }, {
        "custom" : false,
        "field" : "notes",
        "name" : "Comment",
        "field_type" : "text",
        "type_options" : "fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 2,
        "is_required" : 0,
        "last" : false
      } ],
      "issue_status_attribute" : {
        "name" : "To Do",
        "type" : "START_STATUS"
      }
    }, {
      "id" : 7,
      "status_id" : "34193c2555eb404f92d088c084257825",
      "name" : "aaa",
      "is_closed" : 0,
      "is_initial" : 1,
      "issue_field_configs" : [ {
        "custom" : false,
        "field" : "assigned_to_id",
        "name" : "Handler",
        "field_type" : "fixed_value",
        "type_options" : "select,fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 1,
        "is_required" : 2,
        "last" : true,
        "options" : ""
      }, {
        "custom" : false,
        "field" : "notes",
        "name" : "Comment",
        "field_type" : "text",
        "type_options" : "fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 2,
        "is_required" : 0,
        "last" : false
      } ],
      "issue_status_attribute" : {
        "name" : "To Do",
        "type" : "START_STATUS"
```


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```
  }
} ],
"3" : [ {
  "id" : 1,
  "status_id" : "58435fff2a3c451aaf91cda38fdc80c1",
  "name" : "New",
  "is_closed" : 0,
  "is_initial" : 1,
  "issue_field_configs" : [ {
    "custom" : false,
    "field" : "assigned_to_id",
    "name" : "Handler",
    "field_type" : "fixed_value",
    "type_options" : "select,fixed_value",
    "default_value" : "",
    "is_visible" : true,
    "position" : 1,
    "is_required" : 2,
    "last" : true,
    "options" : ""
  }, {
    "custom" : false,
    "field" : "notes",
    "name" : "Comment",
    "field_type" : "text",
    "type_options" : "fixed_value",
    "default_value" : "",
    "is_visible" : true,
    "position" : 2,
    "is_required" : 0,
    "last" : false
  } ],
  "issue_status_attribute" : {
    "name" : "To Do",
    "type" : "START_STATUS"
  }
} ],
"issue_statuses" : [ {
  "id" : 1,
  "status_id" : "58435fff2a3c451aaf91cda38fdc80c1",
  "name" : "New",
  "is_closed" : 0,
  "position" : 1,
  "is_initial" : 1,
  "flag" : 1,
  "issue_status_attribute" : {
    "name" : "To Do",
    "type" : "START_STATUS"
  }
}, {
  "id" : 7,
  "status_id" : "34193c2555eb404f92d088c084257825",
  "name" : "aaa",
  "is_closed" : 0,
  "position" : 2,
  "is_initial" : 1,
  "flag" : 1,
  "issue_status_attribute" : {
    "name" : "To Do",
    "type" : "START_STATUS"
  }
}, {
  "id" : 2,
  "status_id" : "6de47eb5f35f442680a9f26994784246",
  "name" : "Doing",
  "is_closed" : 0,
  "position" : 3,
  "is_initial" : 0,
  "flag" : 1,
```


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```
    "issue_status_attribute" : {
      "name" : "Doing",
      "type" : "PROCESS_STATUS"
    }
  }, {
    "id" : 3,
    "status_id" : "71e2810154c743b69c804414a5d525bd",
    "name" : "Resolved",
    "is_closed" : 0,
    "position" : 4,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Doing",
      "type" : "PROCESS_STATUS"
    }
  }, {
    "id" : 4,
    "status_id" : "8d540bcba87d451f9d9d80f8b1f7e7ad",
    "name" : "Testing",
    "is_closed" : 0,
    "position" : 5,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Doing",
      "type" : "PROCESS_STATUS"
    }
  }, {
    "id" : 6,
    "status_id" : "176d8af2ea7f4486937ea703c11bf57d",
    "name" : "Rejected",
    "is_closed" : 1,
    "position" : 6,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Done",
      "type" : "DONE_STATUS"
    }
  }, {
    "id" : 5,
    "status_id" : "6759ae8357534ce28edaec4d242d4058",
    "name" : "Closed",
    "is_closed" : 1,
    "position" : 7,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Done",
      "type" : "DONE_STATUS"
    }
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying all status of a transaction.

Error Codes

See **Error Codes**.

4.12.2 Querying Sprints Based on the Update Interval

Function

This API is used to query sprints based on the update interval.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v3/version/find-version

Table 4-845 Query Parameters

Parameter	Mandatory	Type	Description
projectId	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
updated_time_interval	No	String	**Definition**: Update interval. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

Table 4-846 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-847 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of the sprint query.

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Parameter	Type	Description
status	String	**Definition**: Response status of the current sprint list. **Value range**: **success**: The response is successful. **error**: The response failed.

Table 4-848 result

Parameter	Type	Description
versions	Array of **versions** objects	**Definition**: Returned sprints.
total_count	Integer	**Definition**: Total number of sprints. **Value range**: N/A

Table 4-849 versions

Parameter	Type	Description
id	Integer	**Definition**: Unique ID of a sprint. **Value range**: N/A
name	String	**Definition**: Sprint name. **Value range**: N/A
status	String	**Definition**: Current status of a sprint. **Value range**: **0**: not started **1**: ongoing **2**: closed

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Parameter	Type	Description
project_id	String	**Definition**: Unique ID of the project to which a sprint belongs. **Value range**: N/A
due_date	String	**Definition**: End date of a sprint. The value is in timestamp format, for example, **1756656000000**. **Value range**: N/A
effective_date	String	**Definition**: Effective date of a sprint. The value is in timestamp format, for example, **1756656000000**. **Value range**: N/A
created_on	String	**Definition**: Sprint creation time. The value is in timestamp format, for example, **1756656000000**. **Value range**: N/A
updated_on	String	**Definition**: Last update time of a sprint. The value is in timestamp format, for example, **1756656000000**. **Value range**: N/A
start_date	String	**Definition**: Start date of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A
is_current	String	**Definition**: Whether the sprint is the current version. **Value range**: N/A

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Parameter	Type	Description
program_version_id	String	**Definition**: ID of the associated program version. **Value range**: N/A
done_ratio	Integer	**Definition**: Sprint progress, in percentage. **Value range**: N/A
is_deleted	Integer	**Definition**: Whether the sprint has been deleted. **Value range**: **0** (not deleted) **1** (deleted)
status_option	Array of **status_option** objects	**Definition**: Sprint status option list. **Value range**: N/A
project	**project** object	**Definition**: Project to which a sprint belongs. **Value range**: N/A
issue_info	**issue_info** object	**Definition**: Statistics about sprint-related issues. **Value range**: N/A

Table 4-850 status_option

Parameter	Type	Description
id	String	**Definition**: Sprint status ID. **Value range**: **0**: not started **1**: ongoing **2**: closed

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Parameter	Type	Description
name	String	**Definition**: Sprint status name. **Value range**: **To Do**, **Doing**, and **Done**

Table 4-851 project

Parameter	Type	Description
name	String	**Definition**: Name of the project to which a sprint belongs. **Value range**: N/A
id	Integer	**Definition**: Digital ID of the project to which a sprint belongs. **Value range**: N/A

Table 4-852 issue_info

Parameter	Type	Description
total	Integer	**Definition**: Total number of issues. **Value range**: N/A
type_info	Array of strings	**Definition**: Statistics on different types of issues. **Value range**: N/A
closed	String	**Definition**: Number of closed issues. **Value range**: N/A

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Parameter	Type	Description
un_closed	String	**Definition**: Number of unclosed issues. **Value range**: N/A

Example Requests

```
{endpoint}/v1/scrum/getScrumList?projectId=5192de5eb435430c8cd41c6ae6028848
```

Example Responses

Status code: 200


```
{
  "result" : {
    "versions" : [ {
      "id" : 26664788,
      "name" : "111",
      "status" : "0",
      "project_id" : "35138974",
      "due_date" : "2025/09/01",
      "effective_date" : "1756656000000",
      "created_on" : "2025-08-05T17:52:19Z",
      "updated_on" : "2025-08-05T17:52:19Z",
      "start_date" : "2025/08/18",
      "is_current" : "1",
      "program_version_id" : "-1",
      "done_ratio" : 0,
      "is_deleted" : 0,
      "status_option" : [ {
        "id" : "0",
        "name" : "To Do"
      }, {
        "id" : "1",
        "name" : "Developing"
      }, {
        "id" : "2",
        "name" : "Done"
      } ],
      "project" : {
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "issue_info" : {
        "total" : 0,
        "type_info" : [ ],
        "closed" : "0",
        "un_closed" : "0"
      }
    }, {
      "id" : 26664721,
      "name" : "Changing the Sprint Name",
      "status" : "1",
      "project_id" : "35138974",
      "due_date" : "2025/08/02",
      "effective_date" : "1754064000000",
      "created_on" : "2025-08-05T14:26:27Z",
      "updated_on" : "2025-08-05T16:03:09Z",
      "start_date" : "2025/07/19",
      "is_current" : "2",
      "program_version_id" : "-1",
```


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```
    "done_ratio" : 0,
    "is_deleted" : 0,
    "status_option" : [ {
      "id" : "0",
      "name" : "To Do"
    }, {
      "id" : "1",
      "name" : "Developing"
    }, {
      "id" : "2",
      "name" : "Done"
    } ],
    "project" : {
      "name" : "DevOps Full-Process Sample Project XXXX",
      "id" : 35138974
    },
    "issue_info" : {
      "total" : 0,
      "type_info" : [ ],
      "closed" : "0",
      "un_closed" : "0"
    }
  }, {
    "id" : 26658716,
    "name" : "Sprint 1",
    "status" : "2",
    "project_id" : "35138974",
    "due_date" : "2025/06/20",
    "effective_date" : "1750348800000",
    "created_on" : "2025-07-21T15:54:23Z",
    "updated_on" : "2025-08-05T15:41:05Z",
    "start_date" : "2025/06/09",
    "is_current" : "2",
    "program_version_id" : "-1",
    "done_ratio" : 100,
    "is_deleted" : 0,
    "status_option" : [ {
      "id" : "0",
      "name" : "To Do"
    }, {
      "id" : "1",
      "name" : "Developing"
    }, {
      "id" : "2",
      "name" : "Done"
    } ],
    "project" : {
      "name" : "DevOps Full-Process Sample Project XXXX",
      "id" : 35138974
    },
    "issue_info" : {
      "total" : 11,
      "type_info" : [ {
        "total" : 5,
        "name" : "Task",
        "closed" : "5",
        "id" : "2",
        "un_closed" : "0"
      }, {
        "total" : 3,
        "name" : "Bug",
        "closed" : "3",
        "id" : "3",
        "un_closed" : "0"
      }, {
        "total" : 3,
        "name" : "Story",
        "closed" : "3",
        "id" : "7",
```


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```
        "type" : "string",
        "un_closed" : "0"
      } ],
      "closed" : "11",
      "un_closed" : "0"
    }
  } ],
  "total_count" : 3
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying sprints based on the update interval.

Error Codes

See **Error Codes**.

4.12.3 Querying the Project Status List

Function

This API is used to query the project status list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

GET /v4/projects/{project_id}/statuses

Table 4-853 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Table 4-854 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints** 0–10000 **Range** Min.: 0. **Default Value** 0

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Page size (number of status records on each page). **Constraints** N/A **Range** 1–100 **Default Value** 10
tracker_id	No	Integer	**Definition** Work item type options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Constraints** ≥ 1 digit **Range** 2, 3, 5, 6, 7 **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-855 Response body parameters

Parameter	Type	Description
issue_statuses	Array of **IssueStatus** objects	**Parameter description**: Status list.

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Parameter	Type	Description
total	Integer	**Parameter description**: Total number. **Options**: N/A

Table 4-856 IssueStatus

Parameter	Type	Description
id	String	**Definition** Status UUID. **Range** N/A
name	String	**Definition**: Status name. **Options**: N/A
status_attribute	**StatusAttribute** object	**Definition**: Status property type. The value can be **To do**, **Doing**, and **Done**.
status_id	Integer	**Definition**: Digital ID of a status. **Options**: N/A
tracker_ids	Array of integers	**Parameter description**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**

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Table 4-857 StatusAttribute

Parameter	Type	Description
id	Integer	**Definition**: Status attribute ID. **Options**: N/A
name	String	**Definition**: Status attribute name. **Options**: N/A

Status code: 400

Table 4-858 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-859 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/statuses
```

Example Responses

Status code: 200

```
{
  "total" : 1,
  "issue_statuses" : [ {
    "id" : "123cefde62004de2b62b5e8dd2c2b3af",
    "status_id" : 1,
    "name" : "Initial",
    "tracker_ids" : [ 2 ],
    "status_attribute" : {
      "id" : 1,
      "name" : "string"
    }
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListScrumProjectStatusesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
```

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```
            .withAk(ak)
            .withSk(sk);

    ProjectManClient client = ProjectManClient.newBuilder()
            .withCredential(auth)
            .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
            .build();
    ListScrumProjectStatusesRequest request = new ListScrumProjectStatusesRequest();
    request.withProjectId("{project_id}");
    try {
        ListScrumProjectStatusesResponse response = client.listScrumProjectStatuses(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
  }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListScrumProjectStatusesRequest()
        request.project_id = "{project_id}"
        response = client.list_scrum_project_statuses(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListScrumProjectStatusesRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListScrumProjectStatuses(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.13 IPD Work Item Management

4.13.1 Deleting Work Items in Batches

Function

This API is used to delete work items in batches.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/issues/batch

Table 4-860 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-861 Query Parameters

Parameter	Mandatory	Type	Description
is_permanent_delete	No	Boolean	**Definition** Whether to permanently delete. **Constraints** N/A **Range** • **true**: permanently delete a work item (applicable to work items in the recycle bin; permanently deleted work items cannot be restored). • **false**: move the work item to the recycle bin. **Default Value** **false**
src_project_id	No	String	**Definition** ID of the project that proposes the work item when the work item type is **RR** or **Bug**. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** This parameter is optional when the responsible project is the same as the proposing project. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-862 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	**Definition** IDs of the work items to be deleted. Obtain the value from the API for **querying work items** or **querying tree-shaped work items**. The value of **id** in the response body is the work item ID. **Constraints** A maximum of 50 records can be deleted in each batch. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-863 Response body parameters

Parameter	Type	Description
result	Array of **IssueBatchOperateEntitiesResult** objects	**Definition** Result of batch editing.
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Operation failure cause. **Range** N/A

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Table 4-864 IssueBatchOperateEntitiesResult

Parameter	Type	Description
success	Array of **IssueOperateResult** objects	**Definition** Success result.
failed	Array of **IssueOperateResult** objects	**Definition** Failure result.
undeleted_trees	Array of **IssueOperateResult** objects	**Definition** Work items that fail to be deleted. **Range** N/A

Table 4-865 IssueOperateResult

Parameter	Type	Description
id	String	**Definition** ID of the changed work item. **Range** N/A
operator	String	**Definition** ID of the work item changer. **Range** N/A
state	String	**Definition** Discard flag of a work item. The options are as follows. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
operate_time	String	**Definition** Work item change time. **Range** N/A

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Status code: 400

Table 4-866 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

This API is used to delete work items in batches.

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/batch

[ "967726620515282944" ]
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : [ {
    "success" : [ {
      "id" : "957355639715045376",
      "operator" : "a360371833bf4c558f796fd707b44daf",
      "state" : "Discarded",
      "operate_time" : "1706607114000"
    } ],
    "failed" : [ ],
    "undeleted_trees" : [ ]
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02175202",
  "error_msg" : "The work item is in change review."
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

This API is used to delete work items in batches.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchDeleteIpdIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteIpdIssuesRequest request = new BatchDeleteIpdIssuesRequest();
        request.withProjectId("{project_id}");
        List<String> listbodyBody = new ArrayList<>();
        listbodyBody.add("967726620515282944");
        request.withBody(listbodyBody);
        try {
            BatchDeleteIpdIssuesResponse response = client.batchDeleteIpdIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

This API is used to delete work items in batches.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
```

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```
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeleteIpdIssuesRequest()
        request.project_id = "{project_id}"
        listBodybody = [
            "967726620515282944"
        ]
        request.body = listBodybody
        response = client.batch_delete_ipd_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

This API is used to delete work items in batches.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
```

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```
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchDeleteIpdIssuesRequest{}
    request.ProjectId = "{project_id}"
    var listBodybody = []string{
        "967726620515282944",
    }
    request.Body = &listBodybody
    response, err := client.BatchDeleteIpdIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Error cause.

Error Codes

See **Error Codes**.

4.13.2 Updating Work Items in Batches

Function

Batch update work items. A maximum of 50 work items can be updated at a time.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/ipdprojectservice/projects/{project_id}/issues/batch

Table 4-867 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Request Parameters

Table 4-868 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Table 4-869 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	Array of strings	**Definition** IDs of the work items to be updated, which can be obtained from the API for **performing advanced query of work items**. The value of the **id** field in the response body is the work item ID. **Constraints** A string of 18 to 19 digits (corresponding to the **id** field of a work item).
attribute	Yes	**IssueUpdateAttribute** object	**Definition** Work item updates. **Constraints** N/A

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Table 4-870 IssueUpdateAttribute

Parameter	Mandatory	Type	Description
description	No	String	**Definition** Work item description. You can obtain the value from the API for **querying tree-shaped work items**. The value is **description** in the response body. **Constraints** N/A **Range** 1 to 500,000 characters. **Default Value** N/A
parent_id	No	String	**Definition** Parent work item ID. You can obtain the value from the API for **querying tree-shaped work items**. The value is **parent_id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
status	No	String	**Definition** Work item status code. Obtain the value from the **Querying the Work Item Status** API. The value is **code** in the response body. **Constraints** N/A **Range** 2 to 32 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
assignee	No	**UserUpdateAttribute** object	**Definition** Work item owner. **Constraints** N/A
assigned_cc	No	Array of **UserUpdateAttribute** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. The array element is a UserUpdateAttribute object. **Constraints** A work item can be copied to a maximum of 50 recipients.
plan_end_date	No	String	**Definition** Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints** N/A **Range** N/A **Default Value** N/A
plan_dev_end_date	No	String	**Definition** Planned development end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints** N/A. **Range** N/A. **Default Value** N/A.

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Parameter	Mandatory	Type	Description
workload	No	String	**Definition** Planned workloads of a work item. **Constraints** The value is accurate to one decimal place. **Range** 0-999999999.9 **Default Value** N/A
link	No	String	**Definition** IDs of associated items of a work item. **Constraints** Multiple associated items are separated by commas (,). A work item supports a maximum of 50 associated items. **Range** 0 to 2,048 characters. **Default Value** N/A
labels	No	Array of **LabelEntity** objects	**Definition** Work item label. The array element is a LabelEntity object. **Constraints** N/A **Range** 0 to 50 elements. Each element is a LabelEntity object. **Default Value** N/A

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Parameter	Mandatory	Type	Description
custom_fields	No	Array of **FieldCodeValuePair** objects	**Definition** Work item custom field mapping. System fields added by users are also listed here. The structure is {"code":"field code","value":"field value"}. Each array element is a FieldCodeValuePair object. **Constraints** N/A **Range** 0 to 200 elements. Each element is a FieldCodeValuePair object. **Default Value** N/A
ir2feature	No	String	**Definition** Association field of IRs and SFs. **Constraints** This field can be set for IRs. **Range** N/A **Default Value** N/A
need_break	No	String	**Definition** Whether a work item needs to be broken down. **Constraints** This field is available only for work item types that can be broken down. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required. **Default Value** N/A

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Parameter	Mandatory	Type	Description
baseline	No	String	**Definition** Work item baseline status. **Constraints** N/A **Range** • **null**: not baselined • **baselined** • **baseline-reviewing**: baseline review in progress **Default Value** N/A
priority	No	String	**Definition** Work item priority. Some work items have this field. **Constraints** N/A **Range** • Low • Medium • High **Default Value** N/A
related_network_security	No	String	**Definition** Whether network security is involved. **Constraints** This field is available only for R&D requirement work items. **Range** • yes: Network security is involved. • no: Network security is not involved. **Default Value** N/A

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Parameter	Mandatory	Type	Description
business_domain	No	String	**Definition** Domain field. **Constraints** N/A **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/ availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition** Work item release plan ID. The field is the fixing release plan ID for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=PI** in **PlanVO** in the returned parameters is the sprint plan ID. **Constraints** N/A. **Range** A string of 18 to 19 digits. **Default Value** N/A.
plan_iteration	No	String	**Definition** ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=Iteration** in **PlanVO** in the returned parameters is the sprint plan ID. **Constraints** A string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
no_break_reason	No	String	**Definition** Reason for no breakdown required. **Constraints** This field is available when the value of **need_break** is **no**. **Range** 0 to 512 characters. **Default Value** N/A
submitted_by	No	Array of **UserUpdateAttribute** objects	**Definition** Work item proposer. The array element is a UserUpdateAttribute object. **Constraints** N/A
ir2rr	No	String	**Definition** ID of the RR associated with the IR. Obtain the value from the API for **querying work items** or **querying tree-shaped work items**. The value of **id** in the response body is the work item ID. **Constraints** Use commas (,) to separate multiple associated item IDs. **Range** 0 to 1,024 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
feature_set	No	String	**Definition** Feature set ID. Obtain the value of this parameter using the API for **querying feature sets**. The value of **id** in the response body is the feature set ID. **Constraints** N/A. **Range** A string of 18 to 19 digits. **Default Value** N/A.
expected_repair_date	No	String	**Definition** Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Constraints** N/A **Range** 11 to 19 characters. **Default Value** N/A
found_pi	No	String	**Definition** ID of the release plan where a bug is found. This field is available only for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=PI** in **PlanVO** in the returned parameters is the sprint plan ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
found_iteration	No	String	**Definition** ID of the sprint plan where a bug is found. This field is available only for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=Iteration** in **PlanVO** in the returned parameters is the sprint plan ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
reason_analysis	No	String	**Definition** Reason analysis. **Constraints** This field is available only for bugs. **Range** 0 to 50,000 characters. **Default Value** N/A
repair_solution	No	String	**Definition** Fix solution. This field is available only for bugs. **Constraints** N/A **Range** 0 to 50,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
test_report	No	String	**Definition** Test report. This field is available only for bugs. **Constraints** N/A **Range** 0 to 50,000 characters. **Default Value** N/A
sys_no_repair_reason	No	String	**Definition** Reason why rectification is not required. This field is available only for bugs. **Constraints** N/A **Range** 0 to 50,000 characters. **Default Value** N/A
sys_activation_reason	No	String	**Definition** Activation reason. This field is available only for bugs. **Constraints** N/A **Range** 0 to 50,000 characters. **Default Value** N/A
sys_return_reason	No	String	**Definition** Reason for return. This field is available only for bugs. **Constraints** N/A **Range** 0 to 50,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
test_failures_times	No	Integer	**Definition** Number of times that regression failed. This field is available only for bugs. **Constraints** N/A **Range** 0–999999 **Default Value** N/A
close_type	No	String	**Definition** Closure type. **Constraints** N/A **Range** • **problem_solved**: resolved • **problem_to_requirement**: converted to requirement • **duplicate_problem**: duplicate • **not_a_problem**: closed as non-issue **Default Value** N/A
plan_owner	No	**UserUpdateAttribute** object	**Definition** Work item planning owner, responsible for work item planning and plan development. **Constraints** N/A
doing_owner	No	**UserUpdateAttribute** object	**Definition** Work item implementation owner, responsible for the specific implementation and execution of work items. **Constraints** N/A

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Parameter	Mandatory	Type	Description
delivered_owner	No	**UserUpdateAttribute** object	**Definition** Work item delivery owner, responsible for the delivery and release of work items. **Constraints** N/A
checking_owner	No	**UserUpdateAttribute** object	**Definition** Work item acceptance owner, responsible for the final acceptance of work items. **Constraints** N/A
test_owner	No	**UserUpdateAttribute** object	**Definition** Work item testing owner, responsible for testing and verifying work items. **Constraints** N/A
develop_owner	No	**UserUpdateAttribute** object	**Definition** Work item development owner, responsible for developing and implementing work items. **Constraints** N/A
processing_owner	No	**UserUpdateAttribute** object	**Definition** Work item processing owner, responsible for the current processing phase of the work item. **Constraints** N/A
fixed_owner	No	**UserUpdateAttribute** object	**Definition** Work item fixing owner, responsible for fixing work item problems. **Constraints** N/A

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Parameter	Mandatory	Type	Description
researchanddevelop_owner	No	UserUpdateAttribute object	**Definition** Work item R&D owner, responsible for the research and development of work items. **Constraints** N/A
analyse_owner	No	UserUpdateAttribute object	**Definition** Work item analysis owner, responsible for requirement analysis and technical analysis of work items. **Constraints** N/A
plan_start_date	No	String	**Definition** Planned start time. Planned start date of a work item, which is used for project progress management and scheduling. **Constraints** N/A **Range** The value is a timestamp string of 11 to 19 characters, in milliseconds. **Default Value** N/A
expect_delivery_time	No	String	**Definition** Expected completion time. Expected delivery date of a work item, which is used to track whether the work item is completed on time. **Constraints** N/A **Range** The value is a timestamp string of 11 to 19 characters, in milliseconds. **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_test_end_date	No	String	**Definition** Planned test end time. Planned test completion date of a bug work item, which is used to track the test progress after the bug is fixed. **Constraints** This field is valid only for bug work items. Ignore this field for other types of work items. **Range** The value is a timestamp string of 11 to 19 characters, in milliseconds. **Default Value** N/A
severity	No	String	**Definition** Severity, which is used to evaluate the impact scope and fixing priority of the bug. **Constraints** This field is valid only for bug work items. Ignore this field for other types of work items. **Range** • Critical: Severe impacts such as system breakdown and data loss. • Major: Major functions cannot be used. • Minor: Minor functions are abnormal, and alternative solutions are available. • Suggestion: GUI optimization and suggestion issues. **Default Value** N/A

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Parameter	Mandatory	Type	Description
promised	No	String	**Definition** Commitment status. Indicates whether a work item of type RR is committed for delivery. **Constraints** This field is valid only for RR work items. Ignore this field for other types of work items. **Range** • **yes**: committed • **no**: not committed **Default Value** N/A
recipient	No	Array of **UserUpdateAttribute** objects	**Definition** Receiver. The owner of an RR work item, responsible for analyzing and converting requirements. **Constraints** This field is valid only for RR work items. Ignore this field for other types of work items.
sys_no_develop_reason	No	String	**Definition** Reason why an RR work item does not need to be developed. **Constraints** This field is valid only for RR work items. Ignore this field for other types of work items. **Range** 0 to 50,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
val_feature	No	String	**Definition** Value feature. Description of the business value feature corresponding to the SF/FE work item, which is used to associate business value with technical implementation. **Constraints** This field is valid only for SF/FE work items. Ignore this field for other types of work items. **Range** • yes • no **Default Value** N/A
function_scene	No	String	**Definition** Function scenario. Function application scenario description of SF/FE work items, which describes the application scenarios and user stories of the feature. **Constraints** This field is valid only for SF/FE work items. Ignore this field for other types of work items. **Range** 0 to 512 characters. **Default Value** N/A

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Table 4-871 LabelEntity

Parameter	Mandatory	Type	Description
id	No	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
category_types	No	Array of strings	**Definition** Code of the work item type to which a label belongs. **Constraints** N/A **Default Value** N/A
label_type	No	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Constraints** N/A **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug** **Default Value** N/A

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Parameter	Mandatory	Type	Description
color	No	String	**Definition** Label RGB color. **Constraints** 0 to 16 characters. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue **Default Value** N/A
title	No	String	**Definition** Label title. **Constraints** 1 to 30 characters. **Range** N/A **Default Value** N/A

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Table 4-872 FieldCodeValuePair

Parameter	Mandatory	Type	Description
code	No	String	**Definition** Code of a custom field of a work item. Obtain the value from the **Querying Field Templates** API. The value is **code** in the response body. **Constraints** 0 to 32 characters. **Range** N/A **Default Value** N/A
value	No	String	**Definition** Custom field value of a work item. **Constraints** Use commas (,) to separate multiple values. **Range** N/A **Default Value** N/A

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Table 4-873 UserUpdateAttribute

Parameter	Mandatory	Type	Description
id	No	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Constraints** N/A **Range** N/A **Default Value** N/A
name	No	String	**Definition** Username. **Constraints** If the **id** attribute has a value, **id** is preferentially used to match project members. If the matching fails, **name** is used for matching. **Range** 2 to 64 characters. **Default Value** N/A
nick_name	No	String	**Definition** User alias. **Constraints** If **id** and **name** have values, **id** and **name** are preferentially used to match project members. If the matching fails, **nick_name** is used for matching. **Range** 2 to 30 characters **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-874 Response body parameters

Parameter	Type	Description
result	Array of **IssueBatchOperateEntitiesResult** objects	**Definition** Result of batch editing.
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Operation failure cause. **Range** N/A

Table 4-875 IssueBatchOperateEntitiesResult

Parameter	Type	Description
success	Array of **IssueOperateResult** objects	**Definition** Success result.
failed	Array of **IssueOperateResult** objects	**Definition** Failure result.
undeleted_trees	Array of **IssueOperateResult** objects	**Definition** Work items that fail to be deleted. **Range** N/A

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Table 4-876 IssueOperateResult

Parameter	Type	Description
id	String	**Definition** ID of the changed work item. **Range** N/A
operator	String	**Definition** ID of the work item changer. **Range** N/A
state	String	**Definition** Discard flag of a work item. The options are as follows. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
operate_time	String	**Definition** Work item change time. **Range** N/A

Status code: 400

Table 4-877 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Updating R&D Requirements in Batches

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/batch

{
  "id" : [ "957294446158852096", "957315051394478080" ],
  "attribute" : {
    "category" : "IR",
    "priority" : "Low",
    "submitted_by" : [ {
      "id" : "a360371833bf4c558f796fd707b44daf"
    } ],
    "labels" : [ {
      "id" : "956308025419804673"
    }, {
      "id" : "956308025419804673"
    } ],
    "custom_fields" : [ {
      "code" : "c7073388365101674496",
      "value" : "881467547473321986,881467547473321987"
    }, {
      "code" : "c7148504958125613056",
      "value" : "Custom field of a project."
    }, {
      "code" : "module",
      "value" : "956584293264568320"
    }, {
      "code" : "c7148512434669625344",
      "value" : "956591616891461634"
    } ]
  }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : [ {
    "success" : [ {
      "id" : "957294446158852096",
      "operator" : "a360371833bf4c558f796fd707b44daf",
      "operate_time" : "1706607114000"
    }, {
      "id" : "957315051394478080",
      "operator" : "a360371833bf4c558f796fd707b44daf",
      "operate_time" : "1706607114000"
    } ],
    "failed" : [ ]
  } ]
}
```

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Status code: 400

```
{
  "error_code" : "PM.02175202",
  "error_msg" : "The work item is in change review."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Updating R&D Requirements in Batches

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchUpdateIpdIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchUpdateIpdIssuesRequest request = new BatchUpdateIpdIssuesRequest();
        request.withProjectId("{project_id}");
        BatchUpdateIssuesParam body = new BatchUpdateIssuesParam();
        List<UserUpdateAttribute> listAttributeSubmittedBy = new ArrayList<>();
        listAttributeSubmittedBy.add(
            new UserUpdateAttribute()
                .withId("a360371833bf4c558f796fd707b44daf")
        );
        List<FieldCodeValuePair> listAttributeCustomFields = new ArrayList<>();
        listAttributeCustomFields.add(
            new FieldCodeValuePair()
                .withCode("c7073388365101674496")
                .withValue("881467547473321986,881467547473321987")
        );
        listAttributeCustomFields.add(
            new FieldCodeValuePair()
                .withCode("c7148504958125613056")
                .withValue("Custom field of a project.")
        );
```

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```
        listAttributeCustomFields.add(
            new FieldCodeValuePair()
                .withCode("module")
                .withValue("956584293264568320")
        );
        listAttributeCustomFields.add(
            new FieldCodeValuePair()
                .withCode("c7148512434669625344")
                .withValue("956591616891461634")
        );
        List<LabelEntity> listAttributeLabels = new ArrayList<>();
        listAttributeLabels.add(
            new LabelEntity()
                .withId("956308025419804673")
        );
        listAttributeLabels.add(
            new LabelEntity()
                .withId("956308025419804673")
        );
        IssueUpdateAttribute attributebody = new IssueUpdateAttribute();
        attributebody.withCategory("IR")
            .withLabels(listAttributeLabels)
            .withCustomFields(listAttributeCustomFields)
            .withPriority("Low")
            .withSubmittedBy(listAttributeSubmittedBy);
        List<String> listbodyId = new ArrayList<>();
        listbodyId.add("957294446158852096");
        listbodyId.add("957315051394478080");
        body.withAttribute(attributebody);
        body.withId(listbodyId);
        request.withBody(body);
        try {
            BatchUpdateIpdIssuesResponse response = client.batchUpdateIpdIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Updating R&D Requirements in Batches

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]
```

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```
credentials = BasicCredentials(ak, sk)

client = ProjectManClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = BatchUpdateIpdIssuesRequest()
    request.project_id = "{project_id}"
    listSubmittedByAttribute = [
        UserUpdateAttribute(
            id="a360371833bf4c558f796fd707b44daf"
        )
    ]
    listCustomFieldsAttribute = [
        FieldCodeValuePair(
            code="c7073388365101674496",
            value="881467547473321986,881467547473321987"
        ),
        FieldCodeValuePair(
            code="c7148504958125613056",
            value="Custom field of a project."
        ),
        FieldCodeValuePair(
            code="module",
            value="956584293264568320"
        ),
        FieldCodeValuePair(
            code="c7148512434669625344",
            value="956591616891461634"
        )
    ]
    listLabelsAttribute = [
        LabelEntity(
            id="956308025419804673"
        ),
        LabelEntity(
            id="956308025419804673"
        )
    ]
    attributebody = IssueUpdateAttribute(
        category="IR",
        labels=listLabelsAttribute,
        custom_fields=listCustomFieldsAttribute,
        priority="Low",
        submitted_by=listSubmittedByAttribute
    )
    listIdbody = [
        "957294446158852096",
        "957315051394478080"
    ]
    request.body = BatchUpdateIssuesParam(
        attribute=attributebody,
        id=listIdbody
    )
    response = client.batch_update_ipd_issues(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

Updating R&D Requirements in Batches

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```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchUpdateIpdIssuesRequest{}
    request.ProjectId = "{project_id}"
    idSubmittedBy:= "a360371833bf4c558f796fd707b44daf"
    var listSubmittedByAttribute = []model.UserUpdateAttribute{
        {
            Id: &idSubmittedBy,
        },
    }
    codeCustomFields:= "c7073388365101674496"
    valueCustomFields:= "881467547473321986,881467547473321987"
    codeCustomFields1:= "c7148504958125613056"
    valueCustomFields1:= "Custom field of a project."
    codeCustomFields2:= "module"
    valueCustomFields2:= "956584293264568320"
    codeCustomFields3:= "c7148512434669625344"
    valueCustomFields3:= "956591616891461634"
    var listCustomFieldsAttribute = []model.FieldCodeValuePair{
        {
            Code: &codeCustomFields,
            Value: &valueCustomFields,
        },
        {
            Code: &codeCustomFields1,
            Value: &valueCustomFields1,
        },
        {
            Code: &codeCustomFields2,
```

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```
            Value: &valueCustomFields2,
        },
        {
            Code: &codeCustomFields3,
            Value: &valueCustomFields3,
        },
    }
    idLabels:= "956308025419804673"
    idLabels1:= "956308025419804673"
    var listLabelsAttribute = []model.LabelEntity{
        {
            Id: &idLabels,
        },
        {
            Id: &idLabels1,
        },
    }
    categoryAttribute:= "IR"
    priorityAttribute:= "Low"
    attributebody := &model.IssueUpdateAttribute{
        Category: &categoryAttribute,
        Labels: &listLabelsAttribute,
        CustomFields: &listCustomFieldsAttribute,
        Priority: &priorityAttribute,
        SubmittedBy: &listSubmittedByAttribute,
    }
    var listIdbody = []string{
        "957294446158852096",
        "957315051394478080",
    }
    request.Body = &model.BatchUpdateIssuesParam{
        Attribute: attributebody,
        Id: listIdbody,
    }
    response, err := client.BatchUpdateIpdIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Error cause.

Error Codes

See **Error Codes**.

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4.13.3 Baseline Work Items in Batches

Function

This API can be called to baseline work items in an IPD project in batches. You can baseline work items in batches based on the ID array of the work items to be baselined.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v1/ipdprojectservice/projects/{project_id}/issues/batch-update

Table 4-878 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Request Parameters

Table 4-879 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Table 4-880 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	Array of strings	**Definition** ID array of work items to be baselined. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
attribute	Yes	**attribute** object	**Definition**: Modified work item property. **Constraints**: N/A

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Table 4-881 attribute

Parameter	Mandatory	Type	Description
baseline	Yes	String	**Definition**: Work item baseline ID. **Constraints**: N/A **Value range**: **baselined**: Baseline work items. **unbaseline**: Unbaseline work items. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-882 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition** Result of batch editing.
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Operation failure cause. **Range** N/A

Table 4-883 result

Parameter	Type	Description
success	Array of **IssueBaselineResult** objects	**Definition** Success result.

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Parameter	Type	Description
failed	Array of **IssueBaselineResult** objects	**Definition** Failure result.

Table 4-884 IssueBaselineResult

Parameter	Type	Description
id	String	**Definition** ID of the changed work item. **Range** N/A
modified_by	String	**Definition** ID of the work item changer. **Range** N/A
baseline	String	**Definition** Work item baseline result. **Range** • **baselined** • **unbaseline**
operation_id	String	**Definition** Record ID of a work item baseline operation. **Range** N/A
modified_date	String	**Definition** Work item baseline completion time, which is a Unix timestamp (unit: millisecond). **Range** N/A
number	String	**Definition** ID of the work item to be baselined. **Range** N/A

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Parameter	Type	Description
title	String	**Definition** Title of the work item to be baselined. **Range** N/A
fail_message	String	**Definition** Reason for the work item baseline failure. **Range** N/A

Status code: 400

Table 4-885 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Updating R&D requirements in batches

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/batch-update

{
  "id" : [ "1241755389964099584", "1241755327536074752" ],
  "attribute" : {
    "baseline" : "baselined"
  }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
```

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```
 "message" : "",
 "result" : [ {
  "success" : [ {
   "modified_by" : "c533da3e53244b589e7175bb766859ac",
   "operation_id" : "9921e464-82c0-44a5-98d7-f76be9f5ca54",
   "baseline" : "baselined",
   "id" : "1241755327536074752",
   "modified_date" : "1774431523578"
  } ],
  "failed" : [ {
   "number" : "IR20260320396627",
   "id" : "1241755389964099584",
   "title" : "IR-Batch Baseline 01",
   "fail_message" : "The work item is under baseline review. Complete the review first."
  } ],
  "success_num" : 1,
  "fail_num" : 1
 } ]
}
```


Status code: 400


```
{
 "error_code" : "PM.02176813",
 "error_msg" : "No permission."
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

Updating R&D requirements in batches

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchBaselineIpdIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
```

```
        BatchBaselineIpdIssuesRequest request = new BatchBaselineIpdIssuesRequest();
        request.withProjectId("{project_id}");
        BatchBaselineIpdIssuesParam body = new BatchBaselineIpdIssuesParam();
        BatchBaselineIpdIssuesParamAttribute attributebody = new BatchBaselineIpdIssuesParamAttribute();
        attributebody.withBaseline("baselined");
        List<String> listbodyId = new ArrayList<>();
        listbodyId.add("1241755389964099584");
        listbodyId.add("1241755327536074752");
        body.withAttribute(attributebody);
        body.withId(listbodyId);
        request.withBody(body);
        try {
            BatchBaselineIpdIssuesResponse response = client.batchBaselineIpdIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Updating R&D requirements in batches

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchBaselineIpdIssuesRequest()
        request.project_id = "{project_id}"
        attributebody = BatchBaselineIpdIssuesParamAttribute(
            baseline="baselined"
        )
        listIdbody = [
            "1241755389964099584",
            "1241755327536074752"
        ]
        request.body = BatchBaselineIpdIssuesParam(
            attribute=attributebody,
            id=listIdbody
```

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```
        )
        response = client.batch_baseline_ipd_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Updating R&D requirements in batches

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchBaselineIpdIssuesRequest{}
    request.ProjectId = "{project_id}"
    attributebody := &model.BatchBaselineIpdIssuesParamAttribute{
        Baseline: "baselined",
    }
    var listIdbody = []string{
        "1241755389964099584",
        "1241755327536074752",
    }
    request.Body = &model.BatchBaselineIpdIssuesParam{
        Attribute: attributebody,
        Id: listIdbody,
    }
    response, err := client.BatchBaselineIpdIssues(request)
```

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```
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Error cause

Error Codes

See **Error Codes**.

4.13.4 Querying Tree-shaped Work Items

Function

This API is used to query tree-shaped work items.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/tree

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Table 4-886 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-887 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Work item type. **Constraints** 2 to 32 characters. Only letters, underscores (_), and commas (,) are allowed. **Range** Multiple work item types are supported, separated by commas (,), for example, **category=IR,SR,AR**. • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

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Request Parameters

Table 4-888 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Table 4-889 Request body parameters

Parameter	Mandatory	Type	Description
keyword	No	String	**Definition** Keyword. Fuzzy search by title and exact search by number are supported. **Constraints** N/A **Range** N/A **Default Value** N/A
number	No	Array of strings	**Definition** Query by number. If **number** is specified, **keyword** does not take effect. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **number** in the response body. **Constraints** N/A

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Parameter	Mandatory	Type	Description
plan	No	Array of **PlanFilterVO** objects	**Definition** Filter by release and sprint plan criteria. The parameters are the release and sprint plan IDs. The sprint and release plan IDs are subordinate to each other. The value **–2** indicates that no content is set. **Constraints** N/A
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** N/A **Range** N/A **Default Value** N/A
limit	No	Integer	**Definition** Number of records on each page (pagination parameter). **Constraints** N/A **Range** N/A **Default Value** **20**
modified_date	No	**DateFilterVO** object	**Definition** Last modification time of a work item. **Constraints** N/A

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Table 4-890 PlanFilterVO

Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition** Release plan ID. The value **–2** indicates that no content is set. You can query the release plan ID by calling the API for **querying the release/sprint plan list**. The **id** in **PlanVO** in the returned parameters is the release plan ID. **Constraints** A string of 18 to 19 digits, or **-2**. **Range** N/A **Default Value** N/A
plan_iteration	No	Array of strings	**Definition** Sprint plan ID of the release plan. The value **–2** indicates that no sprint is set. ID of the sprint plan when the statistics are collected by sprint plan. You can query the release plan ID by calling the API for **querying the release/sprint plan list**. The **id** in **children** in the returned parameters is the release sprint ID. **Constraints** N/A

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Table 4-891 DateFilterVO

Parameter	Mandatory	Type	Description
start_date	No	String	**Definition** Start timestamp of the time filter, for example, 1711036800000. **Constraints** **-2** indicates that no content is set. **Range** N/A **Default Value** N/A
end_date	No	String	**Definition** End timestamp of the time filter, for example, 1711036899999. **Constraints** **-2** indicates that no content is set. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-892 Response body parameters

Parameter	Type	Description
result	**IssueEntityPageResult** object	**Definition** Work item tree diagram API.
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.

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Parameter	Type	Description
message	String	**Definition** Query failure cause. **Range** N/A

Table 4-893 IssueEntityPageResult

Parameter	Type	Description
issues	Array of **IssueInfoVO** objects	**Definition** Work item list.
total	Integer	**Definition** Total number of work items. **Range** N/A

Table 4-894 IssueInfoVO

Parameter	Type	Description
id	String	**Definition** ID of the work item to be updated. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
description	String	**Definition** Work item description field. **Range** N/A

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Parameter	Type	Description
type	String	**Definition** Work item category definition. **Range** • **requirement**: R&D requirement. • **bug**: Defect. • **task**: Task. • **feature**: Feature. • **raw_requirement**: Raw requirement.
number	String	**Definition** Work item ID. **Range** N/A
category	String	**Definition** Work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Cloud service projects: **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**.
parent_id	String	**Definition** Parent work item ID. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project, which must be unique. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Work item status code. **Range** • **Start**: Initial. • **Analyse**: To be analyzed. • **Develop**: Developing. • **Test**: Testing. • **Finish**: Completed.
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin
assignee	**UserEntity** object	**Definition** Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition** Work item creator.
created_time	String	**Definition** Work item creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
modified_by	**UserEntity** object	**Definition** Latest updater of a work item.
modified_time	String	**Definition** Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Range** N/A

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Parameter	Type	Description
plan_end_date	String	**Definition** Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
close_time	String	**Definition** Work item closure time, which is a Unix timestamp (unit: millisecond). **Range** N/A
workload	String	**Definition** Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999999999.9. **Range** 0-999999999.9
workload_sum	String	**Definition** Actual workloads of a work item. **Range** 0-999999999.9
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Range** N/A
link	String	**Definition** IDs of associated items of a work item. **Range** N/A
suspended	Boolean	**Definition** Whether a work item is suspended. **Range** **true** and **false**

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Parameter	Type	Description
status_modified_time	String	**Definition** Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Range** N/A
labels	Array of **LabelEntity** objects	**Definition** Work item label.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition** Work item custom field mapping. System fields added by users are also listed here. The structure is as follows: "code": Field code. "value": Field value.
children	Array of **IssueInfoVO** objects	**Definition** Child work item set of a work item.
path	String	**Definition** Path of a child work item. **Range** N/A
ir2feature	String	**Definition** Association field of IRs and SFs.
need_break	String	**Definition** Whether a work item needs to be broken down. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.

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Parameter	Type	Description
break_status	String	**Definition** Decomposition status. **decomposed**: Decomposed. **undecomposed**: Undecomposed. --: N/A. **Range** • **decomposed**: Decomposed. • **undecomposed**: Undecomposed. • --: N/A.
baseline	String	**Definition** Work item baseline status. **Range** • **null**: not baselined • **baselined** • **baseline-reviewing**: baseline review in progress
priority	String	**Definition** Work item priority. Some work items have this field. **Range** • Low • Medium • High
related_network_security	String	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A

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Parameter	Type	Description
business_domain	String	**Definition** Domain field. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
plan_pi	String	**Definition** Work item release plan ID. **Range** N/A
plan_iteration	String	**Definition** ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. **Range** N/A

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Parameter	Type	Description
change_status	String	**Definition** Work item change status. **change-reviewing**: Change reviewing. **changed**: Changed. **unchange** or **null**: Not changed. **Range** • **change-reviewing**: Change reviewing. • **changed**: Changed. • **unchanged**: Not changed. • **null**: Not changed.
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** 0 to 512 characters.
submitted_by	Array of **UserEntity** objects	**Definition** Work item proposer.
ir2rr	String	**Definition** ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Range** N/A
feature_set	String	**Definition** Feature set ID. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Range** N/A

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Parameter	Type	Description
found_pi	String	**Definition** ID of the release plan where a bug is found. This field is available only for bugs. **Range** N/A
found_iteration	String	**Definition** ID of the sprint plan where a bug is found. This field is available only for bugs. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** 0 to 50,000 characters.
repair_solution	String	**Definition** Fix solution. This field is available only for bugs. **Range** N/A
test_report	String	**Definition** Test report. This field is available only for bugs. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is available only for bugs. **Range** N/A
sys_activation_reason	String	**Definition** Activation reason. This field is available only for bugs. **Range** N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition** Reason for return. This field is available only for bugs. **Range** N/A
test_failures_times	Integer	**Definition** Number of times that regression failed. This field is available only for bugs. **Range** N/A
close_type	String	**Definition** Closure type. Among preset fields, only bugs have this field. The optional values are: **problem_solved**: Closed as problem solved. **problem_to_requirement**: Closed as problem converted to requirement. **duplicate_problem**: Closed as a duplicate problem. **not_a_problem**: Closed as not a problem. These correspond to problem solved closure, problem converted to requirement closure, duplicate problem closure, and non-problem closure, respectively. **Range** • **problem_solved**: Closed as problem solved. • **problem_to_requirement**: Closed as problem converted to requirement. • **duplicate_problem**: Closed as a duplicate problem. • **not_a_problem**: Closed as not a problem.

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Table 4-895 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Table 4-896 LabelEntity

Parameter	Type	Description
id	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Range** A string of 18 to 19 digits.
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.

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Parameter	Type	Description
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue

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Parameter	Type	Description
title	String	**Definition** Label title. **Range** N/A

Table 4-897 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition** Code of a custom field of a work item. Obtain the value from the **Querying Field Templates** API. The value is **code** in the response body. **Range** N/A
value	String	**Definition** Custom field value of a work item. **Range** N/A

Table 4-898 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A

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Parameter	Type	Description
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-899 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
POST https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/tree?category=IR,US

{
  "keyword" : "IR-",
  "plan" : [ {
    "plan_pi" : "966380919792246785",
    "plan_iteration" : [ "967014561020424192", "-2" ]
  } ],
  "number" : [ "IR20240218102026" ],
  "limit" : 10,
  "offset" : 0
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "issues" : [ {
      "category" : "IR",
      "id" : "961308804339843073",
      "title" : "IR-16-Breakdown",
      "type" : "requirement",
      "number" : "IR20240205000401",
      "project_id" : "8e70d806a8f04d018ea6af6b6ffe7b96",
      "status" : "Start",
      "state" : "Working",
      "assignee" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "assigned_cc" : [ {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      } ],
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "created_time" : "1707123479000",
      "modified_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "modified_time" : "1707123480000",
      "workload" : "20.00",
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "link" : "",
      "status_modified_time" : "1707123480000",
      "custom_fields" : [ {
        "code" : "c7073388365101674496",
        "value" : "881467547473321986"
      }, {
        "code" : "c7148512434669625344",
        "value" : "956591616891461634"
      } ],
      "children" : [ ],
      "ir2feature" : "",
      "need_break" : "yes",
      "break_status" : "undecomposed",
      "priority" : "Medium",
      "related_network_security" : "no",
      "business_domain" : "software",
      "submitted_by" : [ {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      } ],
      "ir2rr" : "956559072707911681"
    } ],
    "total" : 1
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.PM.02176813",
  "error_msg" : "No permission."
}
```


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Status Codes

Status Code	Description
200	OK
400	Error message.

Error Codes

See **Error Codes**.

4.13.5 Querying Work Item Details

Function

This API is used to query work item details.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}

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Table 4-900 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-901 Query Parameters

Parameter	Mandatory	Type	Description
issue_type	Yes	String	**Definition** Work item type. **Constraints** 1 to 32 characters. **Range** **Epic**, **FE**, **SF**, **IR**, **RR**, **SR**, **US**, **AR**, **Bug**, and **Task** **Default Value** N/A
domain_id	No	String	**Definition** Project space ID, which can be obtained by calling the API for **querying the IPD project list**. The value of **domain_id** in the response body is the project space ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-902 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-903 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Information. **Range** N/A
result	Array of **IssueDetailsResponse** objects	**Definition** Query result.

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Table 4-904 IssueDetailsResponse

Parameter	Type	Description
id	String	**Definition** Work item ID. **Range** N/A
number	String	**Definition** Work item ID. **Range** N/A
type	String	**Definition** Work item type. **Range** N/A
stay_days	Integer	**Definition** Number of stay days. **Range** N/A
tenant_id	String	**Definition** Tenant ID. **Range** N/A
created_date	String	**Definition** Creation time of a work item. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A

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Table 4-905 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-906 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/e4b0424709934bd1a54753e70336564d/issues/981935538274476033?issue_type=RR
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "position_float" : "9999999996.0678440000",
    "develop_owner" : null,
    "project" : {
      "id" : "1276960103044919297",
      "state" : "In use",
      "title" : "IPD-System device 0625001",
      "project_id" : "9919c49270f24584bfd99cf468704688",
      "category" : "Project",
      "created_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "modified_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "tenant_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
      "model_id" : "10001",
      "project_template_id" : "10001",
      "category_template_id" : "10001",
      "feature_template_id" : "10001",
      "created_date" : "2026-06-25T17:43:33Z"
    },
    "child_issues" : [ ],
    "type" : "requirement",
    "plan_test_end_date" : null,
    "domain_id" : {
      "id" : "1276960103044919297",
      "name" : "IPD-System device 0625001",
      "title" : "IPD-System device 0625001",
      "project_id" : "9919c49270f24584bfd99cf468704688",
      "parent_id" : null,
      "category" : "Project",
      "created_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "model_id" : "10001",
      "children" : [ ],
      "project_template_id" : "10001",
      "category_template_id" : "10001",
      "category_template_name" : null,
      "feature_template_id" : "10001",
      "feature_template_name" : null,
      "is_managed_by_tenant" : false,
      "is_locked" : false
    },
    "number" : "IR20260630026183",
    "path" : "/1278755202640818176",
    "convolution_actual_hours" : null,
    "upstream_change_flag" : null,
    "workload_man_day" : null,
    "children" : null,
    "id" : "1278755202640818176",
    "state" : "In use",
    "stay_days" : 5,
    "ir2feature" : "",
    "need_break" : {
      "id" : "1276960107109199995",
      "field_id" : "10164",
      "display_value" : "Yes",
      "value" : "yes",
      "code" : "yes",
      "value_py" : "yes",
      "sequence" : 1,
```


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```
  "level" : 1,
  "domain_id" : "1276960103044919297",
  "belong_definition_type" : "5"
},
"collaborative_history" : null,
"related_network_security" : {
  "id" : "1276960107109199878",
  "field_id" : "10258",
  "display_value" : "No",
  "value" : "no",
  "code" : "no",
  "value_py" : "no",
  "sequence" : 2,
  "level" : 1,
  "domain_id" : "1276960103044919297",
  "belong_definition_type" : "5"
},
"assigned_cc" : null,
"workitem2label" : null,
"baseline" : {
  "id" : "1276960107109199903",
  "field_id" : "10106",
  "display_value" : "Baselined",
  "value" : "baselined",
  "code" : "baselined",
  "value_py" : "baselined",
  "sequence" : 2,
  "level" : 1,
  "domain_id" : "1276960103044919297",
  "belong_definition_type" : "5"
},
"close_time" : null,
"priority" : {
  "id" : "1276960107109199909",
  "field_id" : "10042",
  "display_value" : "Medium",
  "value" : "Medium",
  "code" : "Medium",
  "value_py" : "2",
  "sequence" : 2,
  "level" : 1,
  "domain_id" : "1276960103044919297",
  "belong_definition_type" : "5"
},
"modified_date" : "1783073007920",
"created_by" : {
  "user_id" : "029f95b680474fa396fcaba6a73954af",
  "user_name" : "creq_chm2",
  "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
  "nick_name" : "",
  "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
  "role_name" : "Project manager",
  "role_alias_name" : "Project manager",
  "role_code" : "Project manager"
},
"break_status" : {
  "id" : "1276960107109199918",
  "field_id" : "10253",
  "display_value" : "Undecomposed",
  "value" : "undecomposed",
  "code" : "undecomposed",
  "value_py" : "undecomposed",
  "sequence" : 2,
  "level" : 1,
  "domain_id" : "1276960103044919297",
  "belong_definition_type" : "5"
},
"status_modified_date" : "1782808598494",
"important" : null,
```


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```
  "collaboratives" : null,
  "parent_id" : null,
  "business_domain" : {
    "id" : "1276960107109199972",
    "field_id" : "10024",
    "display_value" : "Software",
    "value" : "software",
    "code" : "software",
    "value_py" : "rj",
    "sequence" : 1,
    "level" : 1,
    "domain_id" : "1276960103044919297",
    "belong_definition_type" : "5"
  },
  "assignee" : {
    "user_id" : "029f95b680474fa396fcaba6a73954af",
    "user_name" : "creq_chm2",
    "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
    "nick_name" : "",
    "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
    "role_name" : "Project manager",
    "role_alias_name" : "Project manager",
    "role_code" : "Project manager"
  },
  "region" : "roma-dg-7",
  "inherit_button" : "hide",
  "status" : {
    "id" : "1276960107478298626",
    "belonging" : "START",
    "space_id" : "1276960103044919297",
    "name" : "Initial",
    "code" : "Start",
    "definition_type" : "5",
    "belong_definition_type" : 3,
    "display_value" : "Initial",
    "position" : 1,
    "displayable" : 1,
    "editable" : 1,
    "deletable" : 1,
    "mutable" : 1,
    "title_py" : "cs",
    "created_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
    "created_date" : 1782380614394,
    "modified_date" : 1782380614394,
    "modified_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
    "linkage_node_fields" : false
  },
  "plan_pi" : null,
  "tenant_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
  "plan_dev_end_date" : null,
  "link" : "",
  "description" : "<p>[Background]</p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p><img
data-src=\"/api/ipdproject/v1/projects/9919c49270f24584bfd99cf468704688/imgs/
63624517320d4df6953bd3a0e28fef13.png\" src=\"/api/ipdproject/v1/projects/
9919c49270f24584bfd99cf468704688/imgs/63624517320d4df6953bd3a0e28fef13.png\" data-image-id=
\"img0\" devui-editorx-image=\"true\" style=\"vertical-align: baseline;\">",
  "is_suspended" : null,
  "change_status" : null,
  "title" : "IR-E2E tracing",
  "descendants" : "1278755202640818176",
  "sum_workload_man_day" : "12.0",
  "ir2rr" : "",
  "plan_end_date" : null,
  "root_id" : "1278755202640818176",
  "plan_start_date" : null,
  "convolution_plan_hours" : null,
  "category_layer_id" : "10001",
  "no_break_reason" : null,
  "submitted_by" : [ {
```


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```
    "user_id" : "029f95b680474fa396fcaba6a73954af",
    "user_name" : "creq_chm2",
    "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
    "nick_name" : "",
    "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
    "role_name" : "Project manager",
    "role_alias_name" : "Project manager",
    "role_code" : "Project manager"
   } ],
   "cascade_delete" : "none",
   "issue_opinion_id" : null,
   "test_owner" : null,
   "issue_review_id" : null,
   "modified_by" : {
    "user_id" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
    "user_name" : "creq_chm1",
    "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
    "nick_name" : "",
    "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f,e8b7a70b3d0d4c639823889498e00afe",
    "role_name" : "Project manager and project administrator",
    "role_alias_name" : "Project manager,Project admin",
    "role_code" : "Project manager,project_admin"
   },
   "setup" : true,
   "created_date" : "1782808598427",
   "closed_flag" : null,
   "category" : "IR",
   "collaborative_status" : null
  } ]
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "Insufficient permissions."
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIssueDetailSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
```

```
            .withAk(ak)
            .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
            .withCredential(auth)
            .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowIssueDetailRequest request = new ShowIssueDetailRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        try {
            ShowIssueDetailResponse response = client.showIssueDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIssueDetailRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        response = client.show_issue_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main
```

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```
import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIssueDetailRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    response, err := client.ShowIssueDetail(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
400	Error cause.

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Error Codes

See **Error Codes**.

4.13.6 Obtaining the Wikis Associated with a Work Item

Function

This API is used to obtain the wikis associated with a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/issue/get-attached-wikis

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Table 4-907 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-908 Query Parameters

Parameter	Mandatory	Type	Description
category	No	String	**Definition** Work item type. **Constraints** 2 to 32 characters, including letters, underscores (_), and commas (,). **Range** Multiple values are supported. Use commas (,) to separate them. • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Review type: **CR**, **BR**, and **GR** (If you want to query the wiki associated with a review request, the **category** field is mandatory.) **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

Table 4-909 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-910 Response body parameters

Parameter	Type	Description
total	Integer	Total number.
data	Array of **GetAttachedWikiDetail** objects	**Definition** Wiki data object. **Range** N/A

Table 4-911 GetAttachedWikiDetail

Parameter	Type	Description
region	String	**Definition** Region. **Range** N/A

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Parameter	Type	Description
project	**project** object	**Definition** Project to which a wiki belongs. **Range** N/A
wiki_id	String	**Definition** Wiki ID. **Range** N/A
title	String	**Definition** Wiki title. **Range** N/A
issue_id	String	**Definition** ID of the work item associated with the wiki. **Range** N/A
type	String	**Definition** Wiki type. **Range** N/A
created_date	String	**Definition** Wiki creation time. **Range** N/A
author	**author** object	**Definition** Wiki author. **Range** N/A
identifier	String	**Definition** Wiki storage ID. **Range** N/A

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Parameter	Type	Description
sm_level_sequence	String	**Definition** Wiki security level. If the environment is not confidential, ignore this field. **Range** N/A
code	String	**Definition** Wiki code. **Range** N/A

Table 4-912 project

Parameter	Type	Description
project_id	String	**Definition** Project ID. **Range** N/A
name	String	**Definition** Project name. **Range** N/A
project_type	String	**Definition** Project type. The value is fixed to **ipd**. **Range** N/A

Table 4-913 author

Parameter	Type	Description
id	String	**Definition** Wiki creator ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Wiki creator name. **Range** N/A

Status code: 400

Table 4-914 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/2f9fe4cc8d434ee788be972bbe482b28/issue/get-attached-wikis?category=IR&issue_id=1176214762635960321
```

Example Responses

Status code: 200

```
{
  "total" : 1,
  "data" : [ {
    "identifier" : "8a9c4b2e587b423aa66fa0a65151c897",
    "code" : "",
    "issue_id" : "1182824050077601793",
    "author" : {
      "name" : "test",
      "id" : "639f1285b6ff4dda80f88d90571c8bf2"
    },
    "sm_level_sequence" : "0",
    "project" : {
      "project_type" : "ipd",
      "project_id" : "6c01fd31aa13485c80716e6f44c0683d",
      "name" : "QUN-M1-0926-ZY"
    },
    "created_date" : "2025-10-08 23:20:55",
    "region" : "roma-dev-1-ar",
    "title" : "tt1",
    "type" : "1",
```

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```
    "wiki_id" : "0436f97d56784cdebdd9c6db14236956"
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02176709",
  "error_msg" : "No view permission"
}
```

Status Codes

Status Code	Description
200	Success response
400	Error cause

Error Codes

See **Error Codes**.

4.13.7 Creating an IPD Project Work Item

Function

This API is used to create an IPD project work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

POST /v1/ipdprojectservice/projects/{project_id}/issues

Table 4-915 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-916 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

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Table 4-917 Request body parameters

Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Work item title. **Constraints** N/A **Range** 2 to 256 characters. **Default Value** N/A
description	Yes	String	**Definition** Work item description field. **Constraints** N/A **Range** 0 to 500,000 characters. **Default Value** N/A
status	No	String	**Definition** Work item status code. Obtain the value from the **Querying the Work Item Status** API. The value is **code** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
src_domain	No	String	**Definition** ID of the project space of the work item's proposing project. Obtain the value by calling the **Querying the IPD Project List** API. The value of **domain_id** in the response message body is the project space ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
submitted_by	No	String	**Definition** Submitter ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value**

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Parameter	Mandatory	Type	Description
domain_id	No	String	**Definition** ID of the project space of the work item's responsible project. Obtain the value by calling the **Querying the IPD Project List** API. The value of **domain_id** in the response message body is the project space ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
recipient	No	Array of strings	**Definition** Recipient ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits.
expect_delivery_time	No	Long	**Definition** Expected completion time. **Constraints** N/A **Range** Timestamp. **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority	No	String	**Definition** Priority. You can obtain the value of this parameter using the **Querying the Field List** API. The value is the **option** field in the response message body. **Constraints** N/A **Range** • Low • Medium • High **Default Value** N/A
assigned_cc	No	Array of strings	**Definition** Cc recipient ID of a work item. Multiple Cc recipients are supported. **Constraints** A work item can be copied to a maximum of 50 recipients.

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Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Work item type. When editing a work item, this field is mandatory. The value must be the correct type of the current work item, but this field will not be updated. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category_layer_id	No	String	**Definition** ID of the work item type hierarchy. This parameter affects the display of work item levels. Obtain the value from the API for **obtaining the model tree configuration**. Find the corresponding **category_code** in the **category_layer_config** of the response body based on the **category** parameter. The **id** at the same level as **category_code** is the work item type hierarchy ID. **Constraints** N/A **Range** N/A **Default Value** N/A
assignee	Yes	String	**Definition** Work item owner ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition** Work item release plan ID. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=PI** in **PlanVO** in the returned parameters is the release plan ID. **Constraints** This field is available for SRs, ARs, USs, tasks, and bugs by default. **Range** N/A **Default Value** N/A
plan_iteration	No	String	**Definition** ID of the sprint plan in which the work item is completed. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=Iteration** in **PlanVO** in the returned parameters is the sprint plan ID. **Constraints** A string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_start_date	No	Long	**Definition** Planned end date of a work item. **Constraints** A string of 0 to 13 digits. The negative sign (-) can be used as the prefix. **Range** Timestamp. **Default Value** N/A
plan_end_date	No	Long	**Definition** Planned end date of a work item. **Constraints** A string of 0 to 13 digits. The negative sign (-) can be used as the prefix. **Range** Timestamp. **Default Value** N/A
workload_man_day	No	Integer	**Definition** Planned workloads of a work item. **Constraints** A string of 1 to 9 digits. The value can contain one decimal place. **Range** The value is a number with one decimal place. The value range is 0–999999999.9. **Default Value** N/A

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Parameter	Mandatory	Type	Description
business_domain	No	String	**Definition** Domain. You can obtain the value from the **Querying the Field List** API. The value is the **option** field in the response message body. **Constraints** N/A **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/ availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others **Default Value** N/A

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Parameter	Mandatory	Type	Description
need_break	No	String	**Definition** Whether breakdown is required. You can obtain the value from the **Querying the Field List** API. The value is the **option** field of the desired field in the response message body. **Constraints** N/A **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-918 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Information. **Range** N/A
result	Array of **IssueDetailsResponse** objects	**Definition** Query result.

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Table 4-919 IssueDetailsResponse

Parameter	Type	Description
id	String	**Definition** Work item ID. **Range** N/A
number	String	**Definition** Work item ID. **Range** N/A
type	String	**Definition** Work item type. **Range** N/A
stay_days	Integer	**Definition** Number of stay days. **Range** N/A
tenant_id	String	**Definition** Tenant ID. **Range** N/A
created_date	String	**Definition** Creation time of a work item. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A

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Table 4-920 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-921 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

- Create a work item in IPD model 1.

```
POST https://{endpoint}/v1/ipdprojectservice/projects/de7115f62a96485b8ceaac6e68c701c4/issues

{
  "status" : "Analyse",
  "title" : "Model 1 Raw Requirement Demo",
  "description" : "<p>[Background]</p><p><br></p>[Value]</p> <p><br></p><p>[Details]</p>",
  "src_domain" : "868551927720357888",
  "submitted_by" : "a360371833bf4c558f796fd707b44daf",
  "domain_id" : "868551927720357888",
  "assignee" : "eab51c9c46f84d3aab838e1db6401232",
  "recipient" : [ "a360371833bf4c558f796fd707b44daf" ],
  "priority" : "Medium",
  "category" : "RR"
}
```

- Create a work item in IPD model 2.

```
POST https://{endpoint}/v1/ipdprojectservice/projects/de7115f62a96485b8ceaac6e68c701c4/issues

{
  "title" : "Model 2 Initial Requirement Demo",
  "description" : "<p>[Background]</p><p><br></p>[Value]</p> <p><br></p><p>[Details]</p>",
  "domain_id" : "885117755981602818",
  "status" : "Start",
  "submitted_by" : "eab51c9c46f84d3aab838e1db6401232",
  "assignee" : "eab51c9c46f84d3aab838e1db6401232",
  "priority" : "Medium",
  "plan_pi" : "885118532431159297",
  "plan_iteration" : "885118693565890561",
  "plan_start_date" : 1688918400000,
  "plan_end_date" : 1690214400000,
  "workload_man_day" : 10,
  "business_domain" : "software",
  "need_break" : "yes",
  "assigned_cc" : [ "eab51c9c46f84d3aab838e1db6401232" ],
  "category" : "IR"
}
```

- Create a work item in IPD model 3.

```
POST https://{endpoint}/v1/ipdprojectservice/projects/de7115f62a96485b8ceaac6e68c701c4/issues

{
  "title" : "Model 3 Task Demo",
  "description" : "<p>[Background] </p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p>",
  "domain_id" : "885119056444489729",
  "status" : "Start",
  "assignee" : "eab51c9c46f84d3aab838e1db6401232",
  "priority" : "Medium",
  "assigned_cc" : [ "eab51c9c46f84d3aab838e1db6401232" ],
  "business_domain" : "software",
  "plan_start_date" : 1688918400000,
  "plan_end_date" : 1690214400000,
  "workload_man_day" : 12,
  "category" : "Task"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "domain_id" : "1273201979687350273",
    "id" : "1281298264407584768",
```

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```
    "assignee" : "ee3ae960aa2247a2973eb34e4ea30f58",
    "category" : "RR",
    "created_by" : "029f95b680474fa396fcaba6a73954af",
    "status" : "Plan"
  } ],
  "page" : null
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

- Create a work item in IPD model 1.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateIpdProjectIssueSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdProjectIssueRequest request = new CreateIpdProjectIssueRequest();
        request.withProjectId("{project_id}");
        CreateIpdProjectIssueParam body = new CreateIpdProjectIssueParam();
        List<String> listbodyRecipient = new ArrayList<>();
        listbodyRecipient.add("a360371833bf4c558f796fd707b44daf");
        body.withAssignee("eab51c9c46f84d3aab838e1db6401232");
        body.withCategory("RR");
        body.withPriority("Medium");
        body.withRecipient(listbodyRecipient);
        body.withDomainId("868551927720357888");
        body.withSubmittedBy("a360371833bf4c558f796fd707b44daf");
```

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```
        body.withSrcDomain("868551927720357888");
        body.withStatus("Analyse");
        body.withDescription("<p>[Background]</p><p><br></p>[Value]</p> <p><br></
p><p>[Details]</p>");
        body.withTitle("Model 1 Raw Requirement Demo");
        request.withBody(body);
        try {
            CreateIpdProjectIssueResponse response = client.createIpdProjectIssue(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

- Create a work item in IPD model 2.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateIpdProjectIssueSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdProjectIssueRequest request = new CreateIpdProjectIssueRequest();
        request.withProjectId("{project_id}");
        CreateIpdProjectIssueParam body = new CreateIpdProjectIssueParam();
        List<String> listbodyAssignedCc = new ArrayList<>();
        listbodyAssignedCc.add("eab51c9c46f84d3aab838e1db6401232");
        body.withNeedBreak("yes");
        body.withBusinessDomain("software");
        body.withWorkloadManDay(10);
        body.withPlanEndDate(1690214400000L);
        body.withPlanStartDate(1688918400000L);
        body.withPlanIteration("885118693565890561");
        body.withPlanPi("885118532431159297");
```

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```
        body.withAssignee("eab51c9c46f84d3aab838e1db6401232");
        body.withCategory("IR");
        body.withAssignedCc(listbodyAssignedCc);
        body.withPriority("Medium");
        body.withDomainId("885117755981602818");
        body.withSubmittedBy("eab51c9c46f84d3aab838e1db6401232");
        body.withStatus("Start");
        body.withDescription("<p>[Background]</p><p><br></p>[Value]</p> <p><br></
p><p>[Details]</p>");
        body.withTitle("Model 2 Initial Requirement Demo");
        request.withBody(body);
        try {
            CreateIpdProjectIssueResponse response = client.createIpdProjectIssue(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

- Create a work item in IPD model 3.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateIpdProjectIssueSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdProjectIssueRequest request = new CreateIpdProjectIssueRequest();
        request.withProjectId("{project_id}");
        CreateIpdProjectIssueParam body = new CreateIpdProjectIssueParam();
        List<String> listbodyAssignedCc = new ArrayList<>();
        listbodyAssignedCc.add("eab51c9c46f84d3aab838e1db6401232");
        body.withBusinessDomain("software");
        body.withWorkloadManDay(12);
```

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```
        body.withPlanEndDate(1690214400000L);
        body.withPlanStartDate(1688918400000L);
        body.withAssignee("eab51c9c46f84d3aab838e1db6401232");
        body.withCategory("Task");
        body.withAssignedCc(listbodyAssignedCc);
        body.withPriority("Medium");
        body.withDomainId("885119056444489729");
        body.withStatus("Start");
        body.withDescription("<p>[Background] </p><p><br></p><p>[Value]</p><p><br></
p><p>[Details]</p>");
        body.withTitle("Model 3 Task Demo");
        request.withBody(body);
        try {
            CreateIpdProjectIssueResponse response = client.createIpdProjectIssue(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

- Create a work item in IPD model 1.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdProjectIssueRequest()
        request.project_id = "{project_id}"
        listRecipientbody = [
            "a360371833bf4c558f796fd707b44daf"
        ]
        request.body = CreateIpdProjectIssueParam(
            assignee="eab51c9c46f84d3aab838e1db6401232",
            category="RR",
            priority="Medium",
            recipient=listRecipientbody,
            domain_id="868551927720357888",
```

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```
            submitted_by="a360371833bf4c558f796fd707b44daf",
            src_domain="868551927720357888",
            status="Analyse",
            description="<p>[Background]</p><p><br></p>[Value]</p> <p><br></p><p>[Details]</p>",
            title="Model 1 Raw Requirement Demo"
        )
        response = client.create_ipd_project_issue(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- Create a work item in IPD model 2.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdProjectIssueRequest()
        request.project_id = "{project_id}"
        listAssignedCcbody = [
            "eab51c9c46f84d3aab838e1db6401232"
        ]
        request.body = CreateIpdProjectIssueParam(
            need_break="yes",
            business_domain="software",
            workload_man_day=10,
            plan_end_date=1690214400000,
            plan_start_date=1688918400000,
            plan_iteration="885118693565890561",
            plan_pi="885118532431159297",
            assignee="eab51c9c46f84d3aab838e1db6401232",
            category="IR",
            assigned_cc=listAssignedCcbody,
            priority="Medium",
            domain_id="885117755981602818",
            submitted_by="eab51c9c46f84d3aab838e1db6401232",
            status="Start",
            description="<p>[Background]</p><p><br></p>[Value]</p> <p><br></p><p>[Details]</p>",
            title="Model 2 Initial Requirement Demo"
        )
        response = client.create_ipd_project_issue(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

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```
        print(e.error_code)
        print(e.error_msg)
```

- Create a work item in IPD model 3.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdProjectIssueRequest()
        request.project_id = "{project_id}"
        listAssignedCcbody = [
            "eab51c9c46f84d3aab838e1db6401232"
        ]
        request.body = CreateIpdProjectIssueParam(
            business_domain="software",
            workload_man_day=12,
            plan_end_date=1690214400000,
            plan_start_date=1688918400000,
            assignee="eab51c9c46f84d3aab838e1db6401232",
            category="Task",
            assigned_cc=listAssignedCcbody,
            priority="Medium",
            domain_id="885119056444489729",
            status="Start",
            description="<p>[Background] </p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p>",
            title="Model 3 Task Demo"
        )
        response = client.create_ipd_project_issue(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

- Create a work item in IPD model 1.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
```

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```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIpdProjectIssueRequest{}
    request.ProjectId = "{project_id}"
    var listRecipientbody = []string{
        "a360371833bf4c558f796fd707b44daf",
    }
    assigneeCreateIpdProjectIssueParam:= "eab51c9c46f84d3aab838e1db6401232"
    categoryCreateIpdProjectIssueParam:= "RR"
    priorityCreateIpdProjectIssueParam:= "Medium"
    domainIdCreateIpdProjectIssueParam:= "868551927720357888"
    submittedByCreateIpdProjectIssueParam:= "a360371833bf4c558f796fd707b44daf"
    srcDomainCreateIpdProjectIssueParam:= "868551927720357888"
    statusCreateIpdProjectIssueParam:= "Analyse"
    descriptionCreateIpdProjectIssueParam:= "<p>[Background]</p><p><br></p>[Value]</p><p><br></p><p>[Details]</p>"
    titleCreateIpdProjectIssueParam:= "Model 1 Raw Requirement Demo"
    request.Body = &model.CreateIpdProjectIssueParam{
        Assignee: &assigneeCreateIpdProjectIssueParam,
        Category: &categoryCreateIpdProjectIssueParam,
        Priority: &priorityCreateIpdProjectIssueParam,
        Recipient: &listRecipientbody,
        DomainId: &domainIdCreateIpdProjectIssueParam,
        SubmittedBy: &submittedByCreateIpdProjectIssueParam,
        SrcDomain: &srcDomainCreateIpdProjectIssueParam,
        Status: &statusCreateIpdProjectIssueParam,
        Description: &descriptionCreateIpdProjectIssueParam,
        Title: &titleCreateIpdProjectIssueParam,
    }
    response, err := client.CreateIpdProjectIssue(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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- Create a work item in IPD model 2.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIpdProjectIssueRequest{}
    request.ProjectId = "{project_id}"
    var listAssignedCcbody = []string{
        "eab51c9c46f84d3aab838e1db6401232",
    }
    needBreakCreateIpdProjectIssueParam:= "yes"
    businessDomainCreateIpdProjectIssueParam:= "software"
    workloadManDayCreateIpdProjectIssueParam:= int32(10)
    planEndDateCreateIpdProjectIssueParam:= int64(1690214400000)
    planStartDateCreateIpdProjectIssueParam:= int64(1688918400000)
    planIterationCreateIpdProjectIssueParam:= "885118693565890561"
    planPiCreateIpdProjectIssueParam:= "885118532431159297"
    assigneeCreateIpdProjectIssueParam:= "eab51c9c46f84d3aab838e1db6401232"
    categoryCreateIpdProjectIssueParam:= "IR"
    priorityCreateIpdProjectIssueParam:= "Medium"
    domainIdCreateIpdProjectIssueParam:= "885117755981602818"
    submittedByCreateIpdProjectIssueParam:= "eab51c9c46f84d3aab838e1db6401232"
    statusCreateIpdProjectIssueParam:= "Start"
    descriptionCreateIpdProjectIssueParam:= "<p>[Background]</p><p><br></p>[Value]</p><p><br></p><p>[Details]</p>"
    titleCreateIpdProjectIssueParam:= "Model 2 Initial Requirement Demo"
    request.Body = &model.CreateIpdProjectIssueParam{
        NeedBreak: &needBreakCreateIpdProjectIssueParam,
        BusinessDomain: &businessDomainCreateIpdProjectIssueParam,
        WorkloadManDay: &workloadManDayCreateIpdProjectIssueParam,
```

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```
        PlanEndDate: &planEndDateCreateIpdProjectIssueParam,
        PlanStartDate: &planStartDateCreateIpdProjectIssueParam,
        PlanIteration: &planIterationCreateIpdProjectIssueParam,
        PlanPi: &planPiCreateIpdProjectIssueParam,
        Assignee: &assigneeCreateIpdProjectIssueParam,
        Category: &categoryCreateIpdProjectIssueParam,
        AssignedCc: &listAssignedCcbody,
        Priority: &priorityCreateIpdProjectIssueParam,
        DomainId: &domainIdCreateIpdProjectIssueParam,
        SubmittedBy: &submittedByCreateIpdProjectIssueParam,
        Status: &statusCreateIpdProjectIssueParam,
        Description: &descriptionCreateIpdProjectIssueParam,
        Title: &titleCreateIpdProjectIssueParam,
    }
    response, err := client.CreateIpdProjectIssue(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

- Create a work item in IPD model 3.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIpdProjectIssueRequest{}
    request.ProjectId = "{project_id}"
    var listAssignedCcbody = []string{
        "eab51c9c46f84d3aab838e1db6401232",
```

```
    }
    businessDomainCreateIpdProjectIssueParam:= "software"
    workloadManDayCreateIpdProjectIssueParam:= int32(12)
    planEndDateCreateIpdProjectIssueParam:= int64(1690214400000)
    planStartDateCreateIpdProjectIssueParam:= int64(1688918400000)
    assigneeCreateIpdProjectIssueParam:= "eab51c9c46f84d3aab838e1db6401232"
    categoryCreateIpdProjectIssueParam:= "Task"
    priorityCreateIpdProjectIssueParam:= "Medium"
    domainIdCreateIpdProjectIssueParam:= "885119056444489729"
    statusCreateIpdProjectIssueParam:= "Start"
    descriptionCreateIpdProjectIssueParam:= "<p>[Background] </p><p><br></p><p>[Value]</
p><p><br></p><p>[Details]</p>"
    titleCreateIpdProjectIssueParam:= "Model 3 Task Demo"
    request.Body = &model.CreateIpdProjectIssueParam{
        BusinessDomain: &businessDomainCreateIpdProjectIssueParam,
        WorkloadManDay: &workloadManDayCreateIpdProjectIssueParam,
        PlanEndDate: &planEndDateCreateIpdProjectIssueParam,
        PlanStartDate: &planStartDateCreateIpdProjectIssueParam,
        Assignee: &assigneeCreateIpdProjectIssueParam,
        Category: &categoryCreateIpdProjectIssueParam,
        AssignedCc: &listAssignedCcbody,
        Priority: &priorityCreateIpdProjectIssueParam,
        DomainId: &domainIdCreateIpdProjectIssueParam,
        Status: &statusCreateIpdProjectIssueParam,
        Description: &descriptionCreateIpdProjectIssueParam,
        Title: &titleCreateIpdProjectIssueParam,
    }
    response, err := client.CreateIpdProjectIssue(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Successful response for creating an RR
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.13.8 Querying the Work Item List

Function

This API is used to obtain the list of raw requirements, system features, R&D requirements, or bugs of an IPD project. You can filter work items based on different criteria.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/query

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Table 4-922 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-923 Query Parameters

Parameter	Mandatory	Type	Description
issue_type	Yes	String	**Definition** Work item type, which is case-sensitive. If an incorrect work item type is transferred, no data is returned. For system device and standalone software projects, if **issue_type** is set to a work item type without parent-child relationship, only the data of the first work item type is returned. **Constraints** Multiple values are supported. Use commas (,) to separate them. **Range** • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. **Default Value** N/A

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Request Parameters

Table 4-924 Request body parameters

Parameter	Mandatory	Type	Description
filter	No	Array of Map<String,ConditionVO> objects	**Definition** Array of query filters, where each element defines a filter condition as a **Map<String, ConditionVO>** object. Within the **Map**, the **key** represents the database column to query and **ConditionVO** indicates the condition's value. The value source is dynamically determined by the **key**. For example, a filter element **{"descendants.plan_pi": {"values": ["956200745322848257"], "operator": "||"}}** queries for work items under the release with ID 956200745322848257. This translates to a SQL clause: select ... where plan_pi in ("956200745322848257"). **plan_pi** is used as the key. **descendants.** indicates a search within a tree structure for matching child items and is optional. In general use, **plan_pi** alone is sufficient as the key. The release ID is the value of the query condition. To query work items under multiple releases, provide multiple release plan IDs in the **values** array. **Constraints** Max. 200 characters. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
filter_mode	No	String	**Definition** Filtering mode. **Constraints** Max. 512 characters. **Range** **OR_AND**: The relationship between multiple filters is OR, and the relationship between the key and value of the same filter is AND. **AND_OR**: The relationship between multiple filters is AND, and the relationship between the key and value of the same filter is OR. **Default Value** AND_OR
page	No	**PageInfoVO** object	**Definition** Pagination information. **Constraints** N/A **Range** N/A **Default Value** N/A
sort	No	Array of **SortInfo** objects	**Definition** Sorting criteria. **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-925 ConditionVO

Parameter	Mandatory	Type	Description
values	No	Array of strings	**Definition** Value of the query condition. **Range** The value is determined by the query key. If the key is **plan_pi**, the value must be a release plan ID. If the key is a user field like **assignee**, the value must be a user ID. If the key is a datetime field like **created_date**, the value is typically a millisecond-precision timestamp range (for example, **[1760284800000,1760371199999]**). **Constraints** Max. 200 characters.

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Parameter	Mandatory	Type	Description
operator	No	String	**Definition** Operator. **Constraints** N/A **Range** • **||** indicates that the relationship between the query target and values is OR. • **!** indicates that the relationship between the query target and values is NOT. • **=**: indicates that the relationship between the query target and values is equals. It is used when there is only one element in **values**. • **<>**, **<**, and **>** indicate that the relationship between the query target and values is range, less than, or greater than. Typically used for date/time and integer type filtering. Boundary values are included. **Default Value** "||"

Table 4-926 PageInfoVO

Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition** Page index. **Constraints** N/A **Range** 1 to 10000 **Default Value** 1

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Parameter	Mandatory	Type	Description
page_size	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 5 to 200 **Default Value** 200

Table 4-927 SortInfo

Parameter	Mandatory	Type	Description
field	No	String	**Definition** Sorting field code. **Constraints** N/A **Range** Obtain the value from the API for **querying field templates**. The value is **code** in the response body. **Default Value** N/A
asc	No	Boolean	**Definition** Ascending or not. **Constraints** N/A **Range** • **true**: ascending • **false**: descending **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-928 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Information. **Range** N/A
result	**IssueListResult** object	**Definition** Result data.

Table 4-929 IssueListResult

Parameter	Type	Description
issues	Array of **IssueVO** objects	**Definition** Work item list. **Range** N/A
total	Integer	**Definition** Total number of work items that meet the filter criteria. **Range** N/A

Table 4-930 IssueVO

Parameter	Type	Description
sys_analysis_conclusion	String	**Definition** Analysis conclusion, which is filled during RR acceptance. **Range** N/A

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Parameter	Type	Description
sys_remark	String	**Definition** Remarks. This field is filled during RR submission for acceptance. **Range** N/A
promised	**OptionVO** object	**Definition** Promised or not. This field is filled during RR acceptance. **Range** N/A
type	String	**Definition** Work item type. **Range** • **requirement** (R&D requirement) • **raw requirement** • **bug** • **task** **feature**
belong_inside	String	**Definition** Whether a work item is submitted across projects. **Range** • **1**: submitted across projects • **0**: submitted within a project
src_domain	**DomainVO** object	**Definition** ID of the project space where the work item is created. **Range** N/A
domain_id	**DomainVO** object	**Definition** ID of the project space to which the work item belongs. **Range** N/A

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Parameter	Type	Description
send_from	String	**Definition** ID of the raw requirement's upstream requirement. **Range** N/A
number	String	**Definition** Work item ID, which consists of the work item type, year, month, day, and six random digits. For example, an IR created on September 30, 2025 may be numbered **RR20250930982833**. **Range** N/A
send_to	String	**Definition** ID of the raw requirement's downstream requirement. **Range** N/A
path	String	**Definition** Path between the parent and child work items. **Range** N/A
workload_man_day	String	**Definition** Planned workloads of a work item. **Range** N/A
sys_check_conclusion	String	**Definition** Acceptance conclusion. This field is filled during RR acceptance. **Range** N/A
id	String	**Definition** Unique ID of a work item. **Range** N/A

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Parameter	Type	Description
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
stay_days	Integer	**Definition** Number of days that a work item stays in the current status. **Range** N/A
assigned_cc	Array of **UserVO** objects	**Definition** Cc recipient. **Range** N/A
submit_time	String	**Definition** Submission time of a work item. It is the time when the work item enters the workflow, rather than the creation time. **Range** N/A
workitem2label	Array of **WorkItemLabelVO** objects	**Definition** Work item label. **Range** N/A
sys_return_conclusion	String	**Definition** Reason for return. This field is filled when an RR/bug is returned. **Range** N/A
close_time	String	**Definition** Completion time of a work item. **Range** N/A

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Parameter	Type	Description
priority	**OptionVO** object	**Definition** Priority. **Range** • Low • Medium • High
modified_date	String	**Definition** Last modification time of a work item. **Range** N/A
created_by	**UserVO** object	**Definition** Work item creator. **Range** N/A
break_status	**OptionVO** object	**Definition** Breakdown status. **Range** N/A
status_modified_date	String	**Definition** Time when the work item was last transferred, which can be used to calculate the stay days. The value is a UNIX timestamp in milliseconds. **Range** N/A
expect_delivery_time	String	**Definition** Expected completion time. The value is a UNIX timestamp in milliseconds. **Range** N/A
parent_id	String	**Definition** Parent work item ID of a work item. **Range** N/A

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Parameter	Type	Description
assignee	**UserVO** object	**Definition** Owner. **Range** N/A
region	String	**Definition** Domain of the tenant to which the work item belongs. **Range** N/A
status	**AlmStatus** object	**Definition** Work item status. **Range** N/A
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. **Range** N/A
plan_pi	**PlanVO** object	**Definition** Release to which a work item belongs. **Range** N/A
link	String	**Definition** Relationship field of the associated work item. Use commas (,) to separate multiple values. **Range** N/A
description	String	**Definition** Work item description. A maximum of 500,000 characters are supported. **Range** N/A
is_suspended	**OptionVO** object	**Definition** Suspended or not. **Range** N/A

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Parameter	Type	Description
change_status	**OptionVO** object	**Definition** Change review status of a work item. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
sum_workload_man_day	String	**Definition** Actual workloads of a work item. **Range** N/A
sys_close_reason	String	**Definition** Reason for closing a work item. **Range** N/A
sys_resubmit_reason	String	**Definition** Reason for resubmission, which is used when resubmitting a returned RR/bug. **Range** N/A
plan_end_date	String	**Definition** Planned completion time of a work item. **Range** N/A
rr2ir	String	**Definition** ID of the child IR of an RR. Use commas (,) to separate multiple values. **Range** N/A
category_layer_id	String	**Definition** Work item type level ID. **Range** N/A

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Parameter	Type	Description
submitted_by	Array of **UserVO** objects	**Definition** Work item submitter. **Range** N/A
rr2us	String	**Definition** ID of the child US of an RR. Use commas (,) to separate multiple values. **Range** N/A
sys_no_develop_reason	String	**Definition** Reason why no development is requirement for the work item. **Range** N/A
plan_iteration	**PlanVO** object	**Definition** Sprint to which the work item belongs. **Range** N/A
sys_return_reason	String	**Definition** Reason for return. It is usually used when returning an RR/bug. **Range** N/A
cascade_delete	String	**Definition** Flag indicating whether to perform cascading deletion. **Range** N/A
recipient	Array of **UserVO** objects	**Definition** Receiver. It is usually used for RRs. **Range** N/A
modified_by	Array of **UserVO** objects	**Definition** Last modifier of a work item. **Range** N/A

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Parameter	Type	Description
created_date	String	**Definition** Creation time of a work item. **Range** N/A
category	String	**Definition** Work item type. **Range** • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
collaborative_status	String	**Definition** Collaboration status of an R&D requirement. **Range** N/A
project	**DomainVO** object	**Definition** Project to which the work item belongs. **Range** N/A
child_issues	Map<String,**IssueVO**>	**Definition** Child work item list. **Range** N/A
activate_times	Integer	**Definition** Number of activation times. The value is automatically assigned when the bug is activated. **Range** N/A
baseline	**OptionVO** object	**Definition** Work item baseline status. **Range** N/A

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Parameter	Type	Description
business_domain	OptionVO object	**Definition** Domain of a work item. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
children	String	**Definition** ID of a child work item. Use commas (,) to separate multiple values. **Range** N/A
collaborative_history	String	**Definition** Change history of a collaborative requirement's status. The value is a JSON string. **Range** N/A

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Parameter	Type	Description
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A
convolution_actual_hours	String	**Definition** Actual roll-up workloads, summed from the actual workloads of all the child and collaborative work items. **Range** N/A
convolution_plan_hours	String	**Definition** Planned roll-up workloads, summed from the planned workloads of all the child and collaborative work items. **Range** N/A
develop_owner	String	**Definition** Development owner. This field is usually used for nodes in the developing status. **Range** N/A
done_ratio	**OptionVO** object	**Definition** Progress. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. **Range** N/A
feature2ir	String	**Definition** ID of the child IR of an SF. Use commas (,) to separate multiple values. **Range** N/A

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Parameter	Type	Description
feature_set	**OptionVO** object	**Definition** Feature set to which the SF belongs. **Range** N/A
found_env	**OptionVO** object	**Definition** Environment. **Range** N/A
found_iteration	**PlanVO** object	**Definition** Sprint. **Range** N/A
found_pi	**PlanVO** object	**Definition** Release. **Range** N/A
function_scene	String	**Definition** Function scenario. **Range** N/A
ir2feature	String	**Definition** ID of the SF associated with an IR. An IR can be associated with only one SF. **Range** N/A
ir2rr	String	**Definition** ID of the parent RR associated with an IR. Use commas (,) to separate multiple values. **Range** N/A
issue_opinion_id	String	**Definition** ID of the decision comment associated with a work item. **Range** N/A

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Parameter	Type	Description
issue_review_id	String	**Definition** ID of the review comment associated with a work item. **Range** N/A
module	**OptionVO** object	**Definition** Module. **Range** N/A
need_break	**OptionVO** object	**Definition** Whether work item breakdown is required. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
need_develop	**OptionVO** object	**Definition** Whether development is required. **Range** N/A
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** N/A
no_develop_reason	String	**Definition** Reason for no development required. **Range** N/A
order	Integer	**Definition** Priority order. **Range** 1–100
plan_dev_end_date	String	**Definition** Planned development end time. This field is usually used for nodes in the developing status. The value is a UNIX timestamp in milliseconds. **Range** N/A

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Parameter	Type	Description
plan_processing_end_date	String	**Definition** Planned end time of processing. This field is usually used for in-progress nodes. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_researchanddevelop_end_date	String	**Definition** Planned R&D end time. This field is usually used for nodes in the R&D status. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_test_end_date	String	**Definition** Planned test end time. This field is usually used for nodes in the testing status. The value is a UNIX timestamp in milliseconds. **Range** N/A
position_float	String	**Definition** Initial position of a work item in the list. **Range** N/A
processing_owner	String	**Definition** Owner for in-progress nodes. This field is usually used for in-progress nodes. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** N/A

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Parameter	Type	Description
regression_failure_number	Integer	**Definition** Number of times that regression failed. This field is automatically assigned when the bug test fails. **Range** N/A
related_network_security	**OptionVO** object	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
repair_solution	String	**Definition** Fix solution. This field is usually used for bugs. **Range** N/A
researchanddevelop_owner	String	**Definition** R&D owner. This field is usually used for nodes in the R&D status. **Range** N/A
severity	**OptionVO** object	**Definition** Severity. **Range** N/A
sys_activation_reason	String	**Definition** Severity. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is used when the bug does not need to be fixed. **Range** N/A

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Parameter	Type	Description
test_failures_times	Integer	**Definition** Number of times that the test failed. **Range** N/A
test_owner	String	**Definition** Test owner. This field is usually used for nodes in the testing status. **Range** N/A
test_report	String	**Definition** Test report. **Range** N/A
val_feature	**OptionVO** object	**Definition** Value feature. **Range** N/A
workitem2ganttchart	String	**Definition** ID of the Gantt chart associated with a work item. **Range** N/A
workitem2mindmap	String	**Definition** ID of the mind map associated with a work item. **Range** N/A

Table 4-931 WorkItemLabelVO

Parameter	Type	Description
id	String	**Definition** Label ID. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
category	String	**Definition** Object type. **Range** **Label**
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**

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Parameter	Type	Description
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue
title	String	**Definition** Label title. **Range** 1 to 30 characters.
type	String	**Definition** Data type of the current object. **Range** **label**

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Parameter	Type	Description
state	String	**Definition** Lifecycle of a label. **Range** **In use**: The label is normal and can be used. **Discarded**: The label has been deleted and cannot be used. **Deleted**: The project to which the label belongs has been deleted and the label cannot be used.
modified_by	String	**Definition** Last modifier. **Range** N/A

Table 4-932 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Table 4-933 AlmStatus

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A

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Parameter	Type	Description
belonging	String	**Definition** Work item status. **Range** **START**: **To Do** state, such as **Initial** or **Analyzing**. **IN_PROGRESS**: **Doing** state, such as **Fixing**, **Testing**, or **In R&D**. **END**: **Done** state, such as **Closed** or **Completed**.
space_id	String	**Definition** ID of the project space to which the status belongs. **Range** N/A
name	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Status code. **Range** N/A
definition_type	String	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. **Range** N/A

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Parameter	Type	Description
belong_definition_type	Integer	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. It is different from **definition_type**. If the definition level is system-level or tenant-defined, a copy of metadata is copied to the project space. **Range** N/A
display_value	String	**Definition** Status name, which is the same as the value of **name**. **Range** N/A
position	Integer	**Definition** Position sequence. **Range** N/A
displayable	Integer	**Definition** Display or not. **Range** N/A
editable	Integer	**Definition** Editable or not. **Range** N/A
deletable	Integer	**Definition** Deletable or not. **Range** N/A
mutable	Integer	**Definition** Whether the status value is fixed. **Range** N/A

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Parameter	Type	Description
title_py	String	**Definition** Initial letters of a title. **Range** N/A
created_by	String	**Definition** User ID of the creator. **Range** N/A
created_date	Integer	**Definition** Creation time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_date	Integer	**Definition** Last modification time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_by	String	**Definition** ID of the last modifier. **Range** N/A
linkage_node_fields	Boolean	**Definition** Whether to add the node owner/end time in the workflow configuration. **Range** **true**: The node owner/end time can be added to the status flow node. **false**: The node owner/end time cannot be added to the status flow node.

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Table 4-934 DomainVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a project space. **Range** N/A
name	String	**Definition** Project space name. **Range** N/A
title	String	**Definition** Project space name. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project space. **Range** N/A
parent_id	String	**Definition** Parent project space ID of the project space, which is used only in programs. **Range** N/A
category	String	**Definition** Project space type. **Range** • **Project** • **Group**
created_by	String	**Definition** ID of the project space creator. **Range** N/A
model_id	String	**Definition** Model ID corresponding to the project space. **Range** • **10001**: system device • **10002**: standalone software

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Table 4-935 PlanVO

Parameter	Type	Description
id	String	**Definition**: ID of a release, sprint, or milestone. **Value range**: N/A
title	String	**Definition**: Title. **Options**: N/A
category	String	**Definition**: Type. The value is of the enumerated type. **Value range**: **PI**: release **Iteration**: sprint **PlanMilestone**: milestone
description	String	**Definition**: Description **Options**: N/A
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.

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Parameter	Type	Description
status	String	**Definition**: Release/Sprint status. The value is of the enumerated type. **Value range**: **planned**: not started **going**: ongoing **ended**
children	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	String	**Definition** Planned start time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
plan_end_date	String	**Definition** Planned completion time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
created_date	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A

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Parameter	Type	Description
parent_id	String	**Definition** Parent work item ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** N/A
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Table 4-936 OptionVO

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A

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Parameter	Type	Description
display_value	String	**Definition** Option name. **Range** N/A
value	String	**Definition** Unique ID of an option. The ID and value of a custom option are the same. **Range** N/A
code	String	**Definition** Option code. **Range** N/A
value_py	String	**Definition** Initial letter of the Chinese pinyin of the option name. **Range** N/A
sequence	Integer	**Definition** Option's position in the list. **Range** N/A
level	Integer	**Definition** Hierarchical depth (**1**, **2**, **3**, or **4**) of an option. For single-choice and multi-choice lists, the value is **1**. **Range** **1**: first level. Options in both single-choice and multi-choice lists belong to the first level. **2**: second level. **3**: third level. **4**: fourth level.
domain_id	String	**Definition** ID of the project space to which the option belongs. **Range** N/A

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Parameter	Type	Description
belong_definition_type	String	**Definition** Definition level of the option. **1**, **2**, and **3** indicate the system level, **4** indicates the tenant-defined level, and **5** indicates the project-defined level. **Range** **1**: system-preset option. **2**: system-preset option. **3**: system-preset option. **4**: tenant-defined option. **5**: project-defined option.

Status code: 400

Table 4-937 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

To query **To Do** R&D requirements with medium priority, assigned to a specific owner and release sprint, within a standalone software project, refer to the following example:

```
POST https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/issues/query?issue_type=IR,US

{
  "filter" : [ {
    "descendants.plan_pi" : {
      "values" : [ "956200745322848257" ],
      "operator" : "||"
    },
    "descendants.plan_iteration" : {
      "values" : [ "956200745322848257-child" ],
      "operator" : "||"
    }
```

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```
 }, {
   "descendants.priority" : {
     "values" : [ "Medium" ],
     "operator" : "||"
   }
 }, {
   "descendants.assignee" : {
     "values" : [ "a360371833bf4c558f796fd707b44daf" ],
     "operator" : "||"
   }
 }, {
   "descendants.status" : {
     "values" : [ "Start" ],
     "operator" : "||"
   }
 }, {
   "parent_id" : {
     "values" : [ "" ],
     "operator" : "||"
   }
 } ],
 "page" : {
   "page_no" : 1,
   "page_size" : 20
 }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "total" : 1,
    "issues" : [ {
      "promised" : null,
      "type" : "raw requirement",
      "src_domain" : {
        "id" : "965714701520515072",
        "name" : "IPD-System Device-0217",
        "title" : "IPD-System Device-0217",
        "project_id" : "e4b0424709934bd1a54753e70336564d",
        "parent_id" : null,
        "category" : "Project",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "model_id" : "10001"
      },
      "domain_id" : {
        "id" : "965714701520515072",
        "name" : "IPD-System Device-0217",
        "title" : "IPD-System Device-0217",
        "project_id" : "e4b0424709934bd1a54753e70336564d",
        "parent_id" : null,
        "category" : "Project",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "model_id" : "10001"
      },
      "send_from" : "",
      "number" : "RR20240402742063",
      "send_to" : "",
      "convolution_actual_hours" : null,
      "workload_man_day" : null,
      "id" : "981935538274476033",
      "state" : "Working",
      "stay_days" : 1,
      "assigned_cc" : null,
      "submit_time" : "1712041275000",
```

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```
  "workitem2label" : null,
  "close_time" : null,
  "priority" : {
    "id" : "965714705672876036",
    "display_value" : "Medium",
    "value" : "Medium",
    "code" : "Medium",
    "value_py" : "2",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "965714701520515072",
    "belong_definition_type" : "5"
  },
  "modified_date" : "1712041276000",
  "created_by" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator, Project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  },
  "break_status" : {
    "id" : "965714705672876041",
    "display_value" : "Not broken down",
    "value" : "undecomposed",
    "code" : "undecomposed",
    "value_py" : "undecomposed",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "965714701520515072",
    "belong_definition_type" : "5"
  },
  "status_modified_date" : "1712041276000",
  "canceled" : null,
  "expect_delivery_time" : null,
  "parent_id" : null,
  "assignee" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator, Project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  },
  "region" : "region01",
  "status" : {
    "id" : "965714705815482388",
    "belonging" : "START",
    "space_id" : "965714701520515072",
    "name" : "Analyzing",
    "status_category" : null,
    "code" : "Analyse",
    "definition_type" : "5",
    "belong_definition_type" : 3,
```


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```
    "belong_scope" : null,
    "display_value" : "Analyzing",
    "position" : 2,
    "displayable" : 1,
    "editable" : 1,
    "deletable" : 1,
    "mutable" : 1,
    "title_py" : "fx",
    "builtin" : null,
    "label" : null,
    "description" : null,
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_userinfo" : null,
    "created_on" : null,
    "created_date" : 1708202727000,
    "modified_date" : 1708202727000,
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "category_code" : null,
    "editing_fields" : null,
    "associate" : null,
    "linkage_node_fields" : false
  },
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "link" : "",
  "is_suspended" : null,
  "change_status" : null,
  "title" : "RR-01",
  "sum_workload_man_day" : null,
  "plan_end_date" : null,
  "rr2ir" : "",
  "convolution_plan_hours" : null,
  "submitted_by" : [ {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator, Project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  } ],
  "rr2us" : "",
  "cascade_delete" : "none",
  "recipient" : [ {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator, Project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  } ],
  "modified_by" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
```

```
      "domain_name" : "devcloud_devcloud_01",
      "nick_name" : "Test account",
      "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
      "role_name" : "Project administrator, Project manager",
      "role_code" : "project_admin,Project manager",
      "image_id" : null,
      "region" : null,
      "has_removed" : null
    },
    "created_date" : "1712041275000",
    "closed_flag" : null,
    "category" : "RR",
    "collaborative_status" : [ ],
    "setup" : true,
    "parent_status" : "no"
  } ]
 }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

To query **To Do** R&D requirements with medium priority, assigned to a specific owner and release sprint, within a standalone software project, refer to the following example:

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

public class ListIpdProjectIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
ProjectManClient client = ProjectManClient.newBuilder()
        .withCredential(auth)
        .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
        .build();
ListIpdProjectIssuesRequest request = new ListIpdProjectIssuesRequest();
request.withProjectId("{project_id}");
SearchIpdIssuesRequestBody body = new SearchIpdIssuesRequestBody();
PageInfoVO pagebody = new PageInfoVO();
pagebody.withPageNo(1)
    .withPageSize(20);
List<String> listFilterValues = new ArrayList<>();
listFilterValues.add("");
ConditionVO filterFilter = new ConditionVO();
filterFilter.withOperator("||")
    .withValues(listFilterValues);
Map<String, ConditionVO> listFilterFilter1 = new HashMap<>();
listFilterFilter1.put("parent_id", filterFilter);
List<String> listFilterValues1 = new ArrayList<>();
listFilterValues1.add("Start");
ConditionVO filterFilter2 = new ConditionVO();
filterFilter2.withOperator("||")
    .withValues(listFilterValues1);
Map<String, ConditionVO> listFilterFilter3 = new HashMap<>();
listFilterFilter3.put("descendants.status", filterFilter2);
List<String> listFilterValues2 = new ArrayList<>();
listFilterValues2.add("a360371833bf4c558f796fd707b44daf");
ConditionVO filterFilter4 = new ConditionVO();
filterFilter4.withOperator("||")
    .withValues(listFilterValues2);
Map<String, ConditionVO> listFilterFilter5 = new HashMap<>();
listFilterFilter5.put("descendants.assignee", filterFilter4);
List<String> listFilterValues3 = new ArrayList<>();
listFilterValues3.add("Medium");
ConditionVO filterFilter6 = new ConditionVO();
filterFilter6.withOperator("||")
    .withValues(listFilterValues3);
Map<String, ConditionVO> listFilterFilter7 = new HashMap<>();
listFilterFilter7.put("descendants.priority", filterFilter6);
List<String> listFilterValues4 = new ArrayList<>();
listFilterValues4.add("956200745322848257-child");
ConditionVO filterFilter8 = new ConditionVO();
filterFilter8.withOperator("||")
    .withValues(listFilterValues4);
List<String> listFilterValues5 = new ArrayList<>();
listFilterValues5.add("956200745322848257");
ConditionVO filterFilter9 = new ConditionVO();
filterFilter9.withOperator("||")
    .withValues(listFilterValues5);
Map<String, ConditionVO> listFilterFilter10 = new HashMap<>();
listFilterFilter10.put("descendants.plan_pi", filterFilter9);
listFilterFilter10.put("descendants.plan_iteration", filterFilter8);
List<Map<String, ConditionVO>> listbodyFilter = new ArrayList<>();
listbodyFilter.add(listFilterFilter1);
listbodyFilter.add(listFilterFilter3);
listbodyFilter.add(listFilterFilter5);
listbodyFilter.add(listFilterFilter7);
listbodyFilter.add(listFilterFilter10);
body.withPage(pagebody);
body.withFilter(listbodyFilter);
request.withBody(body);
try {
    ListIpdProjectIssuesResponse response = client.listIpdProjectIssues(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
```

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```
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

To query **To Do** R&D requirements with medium priority, assigned to a specific owner and release sprint, within a standalone software project, refer to the following example:

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIpdProjectIssuesRequest()
        request.project_id = "{project_id}"
        pagebody = PageInfoVO(
            page_no=1,
            page_size=20
        )
        listValuesFilter = [
            ""
        ]
        filterFilter = ConditionVO(
            operator="||",
            values=listValuesFilter
        )
        listFilterFilter1 = {
            "parent_id": filterFilter
        }
        listValuesFilter1 = [
            "Start"
        ]
        filterFilter2 = ConditionVO(
            operator="||",
            values=listValuesFilter1
        )
        listFilterFilter3 = {
            "descendants.status": filterFilter2
        }
        listValuesFilter2 = [
            "a360371833bf4c558f796fd707b44daf"
        ]
```

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```
        filterFilter4 = ConditionVO(
            operator="||",
            values=listValuesFilter2
        )
        listFilterFilter5 = {
            "descendants.assignee": filterFilter4
        }
        listValuesFilter3 = [
            "Medium"
        ]
        filterFilter6 = ConditionVO(
            operator="||",
            values=listValuesFilter3
        )
        listFilterFilter7 = {
            "descendants.priority": filterFilter6
        }
        listValuesFilter4 = [
            "956200745322848257-child"
        ]
        filterFilter8 = ConditionVO(
            operator="||",
            values=listValuesFilter4
        )
        listValuesFilter5 = [
            "956200745322848257"
        ]
        filterFilter9 = ConditionVO(
            operator="||",
            values=listValuesFilter5
        )
        listFilterFilter10 = {
            "descendants.plan_pi": filterFilter9,
            "descendants.plan_iteration": filterFilter8
        }
        listFilterbody = [
            listFilterFilter1,
            listFilterFilter3,
            listFilterFilter5,
            listFilterFilter7,
            listFilterFilter10
        ]
        request.body = SearchIpdIssuesRequestBody(
            page=pagebody,
            filter=listFilterbody
        )
        response = client.list_ipd_project_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

To query **To Do** R&D requirements with medium priority, assigned to a specific owner and release sprint, within a standalone software project, refer to the following example:

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
```

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```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIpdProjectIssuesRequest{}
    request.ProjectId = "{project_id}"
    pageNoPage:= int32(1)
    pageSizePage:= int32(20)
    pagebody := &model.PageInfoVo{
        PageNo: &pageNoPage,
        PageSize: &pageSizePage,
    }
    var listValuesFilter = []string{
        "",
    }
    operatorFilter:= "||"
    filterFilter := model.ConditionVo{
        Operator: &operatorFilter,
        Values: &listValuesFilter,
    }
    var listFilterFilter1 = map[string](model.ConditionVo){
        "parent_id": filterFilter,
    }
    var listValuesFilter1 = []string{
        "Start",
    }
    operatorFilter1:= "||"
    filterFilter3 := model.ConditionVo{
        Operator: &operatorFilter1,
        Values: &listValuesFilter1,
    }
    var listFilterFilter4 = map[string](model.ConditionVo){
        "descendants.status": filterFilter3,
    }
    var listValuesFilter2 = []string{
        "a360371833bf4c558f796fd707b44daf",
    }
    operatorFilter2:= "||"
    filterFilter6 := model.ConditionVo{
```

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```
        Operator: &operatorFilter2,
        Values: &listValuesFilter2,
    }
    var listFilterFilter7 = map[string](model.ConditionVo){
        "descendants.assignee": filterFilter6,
    }
    var listValuesFilter3 = []string{
        "Medium",
    }
    operatorFilter3:= "||"
    filterFilter9 := model.ConditionVo{
        Operator: &operatorFilter3,
        Values: &listValuesFilter3,
    }
    var listFilterFilter10 = map[string](model.ConditionVo){
        "descendants.priority": filterFilter9,
    }
    var listValuesFilter4 = []string{
        "956200745322848257-child",
    }
    operatorFilter4:= "||"
    filterFilter12 := model.ConditionVo{
        Operator: &operatorFilter4,
        Values: &listValuesFilter4,
    }
    var listValuesFilter5 = []string{
        "956200745322848257",
    }
    operatorFilter5:= "||"
    filterFilter13 := model.ConditionVo{
        Operator: &operatorFilter5,
        Values: &listValuesFilter5,
    }
    var listFilterFilter14 = map[string](model.ConditionVo){
        "descendants.plan_pi": filterFilter13,
        "descendants.plan_iteration": filterFilter12,
    }
    var listFilterbody = []map[string](model.ConditionVo){
        listFilterFilter1,
        listFilterFilter4,
        listFilterFilter7,
        listFilterFilter10,
        listFilterFilter14,
    }
    request.Body = &model.SearchIpdIssuesRequestBody{
        Page: pagebody,
        Filter: &listFilterbody,
    }
    response, err := client.ListIpdProjectIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Response to a successful request for querying the work item list.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.13.9 Creating Work Items in Batches

Function

This API is used to batch create work items.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/ipdprojectservice/projects/{project_id}/issues/batch

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Table 4-938 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-939 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

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Table 4-940 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of **IssueCreateEntity** objects	Parameter for creating work items.

Table 4-941 IssueCreateEntity

Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Work item title. **Constraints** N/A **Range** 2 to 256 characters. **Default Value** N/A
description	Yes	String	**Definition** Work item description field. **Constraints** N/A **Range** 0 to 500,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Work item type code. When editing a work item, this field is mandatory. The value must be the correct type of the current work item, but this field will not be updated. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category_layer_id	Yes	String	**Definition** ID of the work item type hierarchy. This parameter affects the display of work item levels. Obtain the value from the API for **obtaining the model tree configuration**. Find the corresponding **category_code** in the **category_layer_config** of the response body based on the **category** parameter. The **id** at the same level as **category_code** is the work item type hierarchy ID. **Constraints** N/A **Range** N/A **Default Value** N/A
parent_id	Yes	String	**Definition** Parent work item ID. **Constraints** This field is mandatory for child work item creation. In other scenarios, this field is optional. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Work item status code. Obtain the value from the **Querying the Work Item Status** API. The value is **code** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
assignee	Yes	**UserEntity** object	**Definition** Work item owner. **Constraints** This parameter is mandatory for bugs. For other work item types, this parameter is optional. The default owner is the current user.
recipient	No	Array of **UserEntity** objects	**Definition** Raw requirement receiver. **Constraints** This parameter is mandatory for RRs. For other work item types, this parameter is unavailable.
assigned_cc	No	Array of **UserEntity** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. **Constraints** A work item can be copied to a maximum of 50 recipients.

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Parameter	Mandatory	Type	Description
plan_end_date	No	String	**Definition** Planned end date of a work item. **Constraints** A string of 0 to 13 digits. The negative sign (-) can be used as the prefix. **Range** Timestamp. **Default Value** N/A
workload	No	String	**Definition** Planned workloads of a work item. **Constraints** N/A **Range** Numeric string in 0 to 999999999.9. **Default Value** N/A
link	No	String	**Definition** IDs of associated items of a work item. **Constraints** Multiple associated items are separated by commas (,). A work item supports a maximum of 50 associated items. **Range** N/A **Default Value** N/A
labels	No	Array of **LabelEntity** objects	**Definition** Work item label. **Constraints** N/A

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Parameter	Mandatory	Type	Description
custom_fields	No	Array of **FieldCodeValuePair** objects	**Definition** Mapping for custom fields of work items. System fields added by users are also displayed in this column. **Constraints** N/A
ir2feature	No	String	**Definition** Association field of IRs and SFs. **Constraints** This field can be set for IRs. **Range** N/A **Default Value** N/A
priority	No	String	**Definition** Work item priority. **Constraints** This field can be set for RRs, SFs, FEs, IRs, SRs, ARs, tasks, and bugs. **Range** • Low • Medium • High **Default Value** N/A

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Parameter	Mandatory	Type	Description
related_network_security	No	String	**Definition** Whether network security is involved. **Constraints** This field is available only for R&D requirements. **Range** • yes: Network security is involved. • no: Network security is not involved. **Default Value** N/A
collaboratives	No	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Constraints** Collaboration task ID. This field is available for IRs, SRs, ARs, and USs. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
business_domain	No	String	**Definition** Domain field. **Constraints** This field is available for FEs, SFs, IRs, SRs, ARs, and bugs. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/ availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition** Work item release plan ID. **Constraints** This field is available for SRs, ARs, USs, tasks, and bugs by default. **Range** N/A **Default Value** N/A
submitted_by	No	Array of **UserEntity** objects	**Definition** Work item proposer. **Constraints** This field is available only for RRs and bugs.
ir2rr	No	String	**Definition** ID of the RR associated with the IR. **Constraints** This field is available only for IRs. Separate multiple values by commas (,). **Range** N/A **Default Value** N/A
feature_set	No	String	**Definition** Feature set ID. **Constraints** This field is available only for SFs and FEs. **Range** N/A **Default Value** N/A

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Table 4-942 UserEntity

Parameter	Mandatory	Type	Description
id	No	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Constraints** N/A **Range** N/A **Default Value** N/A
name	No	String	**Definition** Username. **Constraints** N/A **Range** 2 to 64 characters. **Default Value** N/A
nick_name	No	String	**Definition** User alias. **Constraints** N/A **Range** 2 to 30 characters **Default Value** N/A

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Table 4-943 LabelEntity

Parameter	Mandatory	Type	Description
id	No	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
category_types	No	Array of strings	**Definition** Code of the work item type to which a label belongs. **Constraints** N/A **Default Value** N/A
label_type	No	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Constraints** N/A **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug** **Default Value** N/A

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Parameter	Mandatory	Type	Description
color	No	String	**Definition** Label RGB color. **Constraints** 0 to 16 characters. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue **Default Value** N/A
title	No	String	**Definition** Label title. **Constraints** 1 to 30 characters. **Range** N/A **Default Value** N/A

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Table 4-944 FieldCodeValuePair

Parameter	Mandatory	Type	Description
code	No	String	**Definition** Code of a custom field of a work item. Obtain the value from the **Querying Field Templates** API. The value is **code** in the response body. **Constraints** 0 to 32 characters. **Range** N/A **Default Value** N/A
value	No	String	**Definition** Custom field value of a work item. **Constraints** Use commas (,) to separate multiple values. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-945 Response body parameters

Parameter	Type	Description
result	Array of **IssueCreateResponse** objects	**Definition** Return value of the created work item.

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Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Failure cause. **Range** N/A

Table 4-946 IssueCreateResponse

Parameter	Type	Description
id	String	**Definition** ID of the work item to be updated. You can obtain the value from the API for **querying tree-shaped work items**. The value is **id** in the response body. **Range** N/A
title	String	**Definition** Work item title. You can obtain the value from the API for **querying tree-shaped work items**. The value is **title** in the response body. **Range** N/A
description	String	**Definition** Work item description. You can obtain the value from the API for **querying tree-shaped work items**. The value is **description** in the response body. **Range** N/A

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Parameter	Type	Description
type	String	**Definition** Work item category definition. This field is not used when creating or editing a work item. It is only for display. It can be obtained by calling the **Querying Tree-shaped Work Items** API. The value of the **type** field in the response body is the work item category definition. **Range** • **requirement**: R&D requirement. • **bug**: Defect. • **task**: Task. • **feature**: Feature. • **raw_requirement**: Raw requirement.
number	String	**Definition** Work item ID. You can obtain the value from the API for **querying tree-shaped work items**. The value is **number** in the response body. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Work item type. It can be obtained by calling the **Querying Tree-shaped Work Items** API. The value of the **category** field in the response body is the work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Cloud service projects: **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code.
parent_id	String	**Definition** Parent work item ID. You can obtain the value from the API for **querying tree-shaped work items**. The value is **parent_id** in the response body. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Work item status code. You can obtain the value from the API for **querying tree-shaped work items**. The value is **status** in the response body. **Range** N/A
state	String	**Definition** Work item lifecycle. The options are **In use** and **Discarded**. You can obtain the value from the API for **querying tree-shaped work items**. The value is **state** in the response body. **Range** **In use** and **Discarded**
assignee	**UserEntity** object	**Definition** Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition** Work item creator.
created_time	String	**Definition** Work item creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
modified_by	**UserEntity** object	**Definition** Latest updater of a work item.
modified_time	String	**Definition** Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Range** N/A

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Parameter	Type	Description
plan_end_date	String	**Definition** Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
close_time	String	**Definition** Work item closure time, which is a Unix timestamp (unit: millisecond). **Range** N/A
workload	String	**Definition** Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999999999.9. **Range** 0-999999999.9
workload_sum	String	**Definition** Actual workloads of a work item. **Range** 0-999999999.9
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Range** N/A
link	String	**Definition** ID of the associated item of a work item. You can obtain the value from the API for **querying tree-shaped work items**. The value is **link** in the response body. **Range** N/A

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Parameter	Type	Description
suspended	Boolean	**Definition** Whether a work item is suspended. **Range** **true** and **false**
status_modified_time	String	**Definition** Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Range** N/A
labels	Array of **LabelEntity** objects	**Definition** Work item label.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition** Work item custom field mapping. System fields added by users are also listed here. The structure is as follows: "code": Field code. "value": Field value.
children	Array of **IssueEntity** objects	**Definition** Child work item set of a work item.
path	String	**Definition** Path of a child work item. **Range** N/A
ir2feature	String	**Definition** Association field of IRs and SFs. **Range** N/A

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Parameter	Type	Description
need_break	String	**Definition** Whether a work item needs to be broken down. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
break_status	String	**Definition** Decomposition status. **decomposed**: Decomposed. **undecomposed**: Undecomposed. **--**: N/A. **Range** • **decomposed**: Decomposed. • **undecomposed**: Undecomposed. • **--**: N/A.
baseline	String	**Definition** Work item baseline status. **Range** • **null**: not baselined • **baselined** • **baseline-reviewing**: baseline review in progress
priority	String	**Definition** Work item priority. Some work items have this field. **Range** • Low • Medium • High
related_network_security	String	**Definition** Whether network security is involved. **Range** N/A **Range** • yes: Network security is involved. • no: Network security is not involved.

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Parameter	Type	Description
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A
business_domain	String	**Definition** Domain field. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others

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Parameter	Type	Description
plan_pi	String	**Definition** Work item release plan ID. You can obtain the value from the API for **querying tree-shaped work items**. The value is **plan_pi** in the response body. **Range** N/A
plan_iteration	String	**Definition** ID of the sprint plan in which the work item is completed. For bugs, the value is the ID of the fix sprint plan. You can obtain the value from the API for **querying tree-shaped work items**. The value is **plan_iteration** in the response body. **Range** N/A
change_status	String	**Definition** Work item change status. **change-reviewing**: Change reviewing. **changed**: Changed. **unchange** or **null**: Not changed. **Range** • **change-reviewing**: Change reviewing. • **changed**: Changed. • **unchanged**: Not changed. • **null**: Not changed.
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** 0 to 512 characters.
submitted_by	Array of **UserEntity** objects	**Definition** Work item proposer.

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Parameter	Type	Description
ir2rr	String	**Definition** ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Range** N/A
feature_set	String	**Definition** Feature set ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **feature_set** in the response body. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Range** N/A
found_pi	String	**Definition** ID of the release plan where a bug is found. This field is available only for bugs. You can obtain the value from the API for **querying tree-shaped work items**. The value is **found_pi** in the response body. **Range** N/A
found_iteration	String	**Definition** ID of the sprint plan where a bug is found. This field is available only for bugs. You can obtain the value from the API for **querying tree-shaped work items**. The value is **found_iteration** in the response body. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** 0 to 50,000 characters.

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Parameter	Type	Description
repair_solution	String	**Definition** Fix solution. This field is available only for bugs. **Range** N/A
test_report	String	**Definition** Test report. This field is available only for bugs. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is available only for bugs. **Range** N/A
sys_activation_reason	String	**Definition** Activation reason. This field is available only for bugs. **Range** N/A
sys_return_reason	String	**Definition** Reason for return. This field is available only for bugs. **Range** N/A
test_failures_times	Integer	**Definition** Number of times that regression failed. This field is available only for bugs. **Range** N/A

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Parameter	Type	Description
close_type	String	**Definition** Closure type. Among preset fields, only bugs have this field. The optional values are: **problem_solved**: Closed as problem solved. **problem_to_requirement**: Closed as problem converted to requirement. **duplicate_problem**: Closed as a duplicate problem. **not_a_problem**: Closed as not a problem. These correspond to problem solved closure, problem converted to requirement closure, duplicate problem closure, and non-problem closure, respectively. **Range** • **problem_solved**: Closed as problem solved. • **problem_to_requirement**: Closed as problem converted to requirement. • **duplicate_problem**: Closed as a duplicate problem. • **not_a_problem**: Closed as not a problem.

Table 4-947 IssueEntity

Parameter	Type	Description
id	String	**Definition** ID of the work item to be updated. You can obtain the value from the API for **querying tree-shaped work items**. The value is **id** in the response body. **Range** A string of 18 to 19 digits (corresponding to the **id** field of a work item).

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Parameter	Type	Description
title	String	**Definition** Work item title. You can obtain the value from the API for **querying tree-shaped work items**. The value is **title** in the response body. **Range** 1 to 256 characters.
description	String	**Definition** Work item description. You can obtain the value from the API for **querying tree-shaped work items**. The value is **description** in the response body. **Range** 1 to 500,000 characters.
type	String	**Definition** Broad category of a work item. This field is not available when you create or edit a work item. It is used only for display. You can obtain the value of this field from the **type** field in the response body of the API for **querying tree-shaped work items** **Range** • **requirement** (R&D requirement) • **bug** • **task** **feature** • **raw_requirement**
number	String	**Definition** Work item ID. You can obtain the value from the API for **querying tree-shaped work items**. The value is **number** in the response body. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Work item type. It can be obtained by calling the **Querying Tree-shaped Work Items** API. The value of the **category** field in the response body is the work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code.
category_layer_id	String	**Definition** ID of the work item type hierarchy. This parameter affects the display of work item levels. Obtain the value from the API for **obtaining the model tree configuration**. Find the corresponding **category_code** in the **category_layer_config** of the response body based on the **category** parameter. The **id** at the same level as **category_code** is the work item type hierarchy ID. **Range** N/A
parent_id	String	**Definition** Parent work item ID. You can obtain the value from the API for **querying tree-shaped work items**. The value is **parent_id** in the response body. **Range** A string of 18 to 19 digits (corresponding to the **id** field of a parent work item).

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Parameter	Type	Description
project_id	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the IPD project list**. **Range** Unique project ID consisting of 32 characters, which is obtained through the API for **querying the IPD project list**.
status	String	**Definition** Work item status code. Obtain the value from the **Querying the Work Item Status** API. The value is **code** in the response body. **Range** 2 to 32 characters.
state	String	**Definition** Work item lifecycle. The options are **In use** and **Discarded**. You can obtain the value from the API for **querying tree-shaped work items**. The value is **state** in the response body. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
assignee	**UserEntity** object	**Definition** Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. The array element is the UserEntity object. **Range** N/A

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Parameter	Type	Description
created_by	**UserEntity** object	**Definition** Work item creator.
created_time	String	**Definition** Work item creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
modified_by	**UserEntity** object	**Definition** Latest updater of a work item.
modified_time	String	**Definition** Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
plan_end_date	String	**Definition** Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
close_time	String	**Definition** Work item closure time, which is a Unix timestamp (unit: millisecond). **Range** N/A
workload	String	**Definition** Planned workloads of a work item. **Range** 0-999999999.9
workload_sum	String	**Definition** Actual workloads of a work item. **Range** 0-999999999.9

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Parameter	Type	Description
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Range** 32 characters.
link	String	**Definition** IDs of associated items of a work item. **Range** 0 to 2,048 characters.
suspended	Boolean	**Definition** Whether a work item is suspended. **Range** • **true**: suspended • **false**: not suspended
status_modified_time	String	**Definition** Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Range** N/A
labels	Array of **LabelEntity** objects	**Definition** Work item label. The array element is a LabelEntity object. **Range** N/A
custom_fields	Array of **FieldCodeValuePair** objects	**Definition** Work item custom field mapping. System fields added by users are also listed here. The structure is {"code":"field code","value":"field value"}. Each array element is a FieldCodeValuePair object. **Range** N/A

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Parameter	Type	Description
children	Array of **IssueEntity** objects	**Definition** Child work item set of a work item. The array element is an IssueEntity object. **Range** N/A
path	String	**Definition** Path of a child work item. **Range** 0 to 256 characters.
ir2feature	String	**Definition** Association field of IRs and SFs. **Range** N/A
need_break	String	**Definition** Whether a work item needs to be broken down. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
break_status	String	**Definition** Breakdown status. **Range** • **decomposed** • **undecomposed** • Empty: N/A
baseline	String	**Definition** Work item baseline status. **Range** • **null**: not baselined • **baselined** • **baseline-reviewing**: baseline review in progress

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Parameter	Type	Description
priority	String	**Definition** Work item priority. Some work items have this field. **Range** • Low • Medium • High
related_network_security	String	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** 0 to 256 characters.

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Parameter	Type	Description
business_domain	String	**Definition** Domain field. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
plan_pi	String	**Definition** Work item release plan ID. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=PI** in **PlanVO** in the returned parameters is the sprint plan ID. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
plan_iteration	String	**Definition** ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=Iteration** in **PlanVO** in the returned parameters is the sprint plan ID. **Range** A string of 18 to 19 digits.
change_status	String	**Definition** Work item change status. **Range** • **change-reviewing** • **changed** • **unchange** • **null**: unchanged
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** 0 to 512 characters.
submitted_by	Array of **UserEntity** objects	**Definition** Work item proposer. The array element is the UserEntity object. **Range** N/A
ir2rr	String	**Definition** ID of the RR associated with the IR. Obtain the value from the API for **querying work items** or **querying tree-shaped work items**. The value of **id** in the response body is the work item ID. **Range** 0 to 1,024 characters.

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Parameter	Type	Description
feature_set	String	**Definition** Feature set ID. Obtain the value of this parameter using the **Querying Feature Sets** API. The value of **id** in the response body is the feature set ID. **Range** A string of 18 to 19 digits.
expected_repair_date	String	**Definition** Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Range** 11 to 19 characters.
found_pi	String	**Definition** ID of the release plan where a bug is found. This field is available only for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=PI** in **PlanVO** in the returned parameters is the sprint plan ID. **Range** A string of 18 to 19 digits.
found_iteration	String	**Definition** ID of the sprint plan where a bug is found. This field is available only for bugs. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=Iteration** in **PlanVO** in the returned parameters is the sprint plan ID. **Range** A string of 18 to 19 digits.
reason_analysis	String	**Definition** Reason analysis. **Range** 0 to 50,000 characters.

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Parameter	Type	Description
repair_solution	String	**Definition** Fix solution. This field is available only for bugs. **Range** 0 to 50,000 characters.
test_report	String	**Definition** Test report. This field is available only for bugs. **Range** 0 to 50,000 characters.
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is available only for bugs. **Range** 0 to 50,000 characters.
sys_activation_reason	String	**Definition** Activation reason. This field is available only for bugs. **Range** 0 to 50,000 characters.
sys_return_reason	String	**Definition** Reason for return. This field is available only for bugs. **Range** 0 to 50,000 characters.
test_failures_times	Integer	**Definition** Number of times that regression failed. This field is available only for bugs. **Range** 0–999999

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Parameter	Type	Description
close_type	String	**Definition** Closure type. **Range** • **problem_solved**: resolved • **problem_to_requirement**: converted to requirement • **duplicate_problem**: duplicate • **not_a_problem**: closed as non-issue
plan_owner	**UserEntity** object	**Definition** Work item planning owner, responsible for work item planning and plan development.
doing_owner	**UserEntity** object	**Definition** Work item implementation owner, responsible for the specific implementation and execution of work items.
delivered_owner	**UserEntity** object	**Definition** Work item delivery owner, responsible for the delivery and release of work items.
checking_owner	**UserEntity** object	**Definition** Work item acceptance owner, responsible for the final acceptance of work items.
test_owner	**UserEntity** object	**Definition** Work item testing owner, responsible for testing and verifying work items.
develop_owner	**UserEntity** object	**Definition** Work item development owner, responsible for developing and implementing work items.
processing_owner	**UserEntity** object	**Definition** Work item processing owner, responsible for the current processing phase of the work item.
fixed_owner	**UserEntity** object	**Definition** Work item fixing owner, responsible for fixing work item problems.

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Parameter	Type	Description
researchanddevel-op_owner	**UserEntity** object	**Definition** Work item R&D owner, responsible for the research and development of work items.
analyse_owner	**UserEntity** object	**Definition** Work item analysis owner, responsible for requirement analysis and technical analysis of work items.
plan_start_date	String	**Definition** Planned start time. Planned start date of a work item, which is used for project progress management and scheduling. **Range** The value is a timestamp string of 11 to 19 characters, in milliseconds.
expect_delivery_time	String	**Definition** Expected completion time. Expected delivery date of a work item, which is used to track whether the work item is completed on time. **Range** The value is a timestamp string of 11 to 19 characters, in milliseconds.
plan_test_end_date	String	**Definition** Planned test end time. Planned test completion date of a bug work item, which is used to track the test progress after the bug is fixed. **Range** The value is a timestamp string of 11 to 19 characters, in milliseconds.

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Parameter	Type	Description
severity	String	**Definition** Severity of a bug work item, which is used to evaluate the impact scope and fixing priority of the bug. **Range** • Critical: Severe impacts such as system breakdown and data loss. • Major: Major functions cannot be used. • Minor: Minor functions are abnormal, and alternative solutions are available. • Suggestion: GUI optimization and suggestion issues.
promised	String	**Definition** Commitment status. Indicates whether a work item of type RR is committed for delivery. **Range** • **yes**: committed • **no**: not committed
recipient	Array of **UserEntity** objects	**Definition** Receiver. The owner of an RR work item, responsible for analyzing and converting requirements. **Range** N/A
sys_no_develop_reason	String	**Definition** Reason why an RR work item does not need to be developed. **Range** 0 to 50,000 characters.
val_feature	String	**Definition** Value feature. Description of the business value feature corresponding to the SF/FE work item, which is used to associate business value with technical implementation. **Range** • yes • no

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Parameter	Type	Description
function_scene	String	**Definition** Function scenario. Function application scenario description of SF/FE work items, which describes the application scenarios and user stories of the feature. **Range** 0 to 512 characters.

Table 4-948 LabelEntity

Parameter	Type	Description
id	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Range** A string of 18 to 19 digits.
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**

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Parameter	Type	Description
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue
title	String	**Definition** Label title. **Range** N/A

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Table 4-949 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition** Code of a custom field of a work item. Obtain the value from the **Querying Field Templates** API. The value is **code** in the response body. **Range** N/A
value	String	**Definition** Custom field value of a work item. **Range** N/A

Table 4-950 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

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Table 4-951 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-952 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

This API is used to create R&D requirements in batches.

```
POST https://{endpoint}/v2/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/batch

[ {
  "ir2rr" : "956559072707911681",
  "category" : "IR",
  "category_layer_id" : "10002",
  "submitted_by" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf"
  }, {
    "id" : "a360371833bf4c558f796fd707b44dwf"
  } ],
  "description" : "<p>[Requirement background]</p><p><br></p>[Requirement value]</p> <p><br></
p><p>[Requirement details]</p>",
  "title" : "IR-18-Breakdown",
  "assignee" : {
    "id" : "a360371833bf4c558f796fd707b44daf"
  },
  "priority" : "Medium",
  "plan_pi" : "1273201979687350273",
  "plan_end_date" : "1706630400000",
  "business_domain" : "software",
  "assigned_cc" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf"
  } ],
  "custom_fields" : [ {
    "code" : "done_ratio",
    "value" : ""
  }, {
    "code" : "c7073388365101674496",
    "value" : "881467547473321986"
  }, {
    "code" : "c7148504958125613056",
    "value" : ""
  }, {
    "code" : "module",
    "value" : ""
  }, {
    "code" : "c7148512434669625344",
    "value" : "956591616891461634"
  } ]
} ]
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : [ {
    "category" : "IR",
    "id" : "974703074900615168",
    "title" : "IR-18-Breakdown",
    "description" : "<p>[Requirement background]</p><p><br></p>[Requirement value]</p> <p><br></
p><p>[Requirement details]</p>",
    "type" : "requirement",
    "number" : "IR20240313680650",
    "project_id" : "8e70d806a8f04d018ea6af6b6ffe7b96",
    "status" : "Start",
    "state" : "Working",
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account 123"
    },
```

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```
  "assigned_cc" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account 123"
  } ],
  "created_by" : {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account 123"
  },
  "created_time" : "1710316922000",
  "modified_by" : {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account 123"
  },
  "modified_time" : "1710316922000",
  "workload" : "20.0",
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "status_modified_time" : "1710316922000",
  "custom_fields" : [ {
    "code" : "c7073388365101674496",
    "value" : "881467547473321986"
  }, {
    "code" : "c7148512434669625344",
    "value" : "956591616891461634"
  } ],
  "need_break" : "yes",
  "break_status" : "undecomposed",
  "priority" : "Medium",
  "related_network_security" : "no",
  "business_domain" : "software",
  "plan_pi" : "",
  "no_break_reason" : "",
  "submitted_by" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account 123"
  }, null ],
  "ir2rr" : "956559072707911681"
 } ]
}
```


Status code: 400


```
{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.13.10 Querying Work Item Details V2

Function

This API is used to query work item details. Only basic information about the work item is returned. Associated work items and child work items are not returned.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}

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Table 4-953 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-954 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-955 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.

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Parameter	Type	Description
message	String	**Definition** Returned information of the request. **Range** N/A
data	**IssueInfoVO** object	**Definition** Work item details.

Table 4-956 IssueInfoVO

Parameter	Type	Description
id	String	**Definition** ID of the work item to be updated. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
description	String	**Definition** Work item description field. **Range** N/A
type	String	**Definition** Work item category definition. **Range** • **requirement**: R&D requirement. • **bug**: Defect. • **task**: Task. • **feature**: Feature. • **raw_requirement**: Raw requirement.
number	String	**Definition** Work item ID. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Cloud service projects: **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**.
parent_id	String	**Definition** Parent work item ID. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project, which must be unique. **Range** N/A
status	String	**Definition** Work item status code. **Range** • **Start**: Initial. • **Analyse**: To be analyzed. • **Develop**: Developing. • **Test**: Testing. • **Finish**: Completed.
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin
assignee	**UserEntity** object	**Definition** Work item owner.

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Parameter	Type	Description
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition** Work item creator.
created_time	String	**Definition** Work item creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
modified_by	**UserEntity** object	**Definition** Latest updater of a work item.
modified_time	String	**Definition** Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
plan_end_date	String	**Definition** Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
close_time	String	**Definition** Work item closure time, which is a Unix timestamp (unit: millisecond). **Range** N/A
workload	String	**Definition** Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999999999.9. **Range** 0-999999999.9

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Parameter	Type	Description
workload_sum	String	**Definition** Actual workloads of a work item. **Range** 0-999999999.9
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Range** N/A
link	String	**Definition** IDs of associated items of a work item. **Range** N/A
suspended	Boolean	**Definition** Whether a work item is suspended. **Range** **true** and **false**
status_modified_time	String	**Definition** Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Range** N/A
labels	Array of **LabelEntity** objects	**Definition** Work item label.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition** Work item custom field mapping. System fields added by users are also listed here. The structure is as follows: "code": Field code. "value": Field value.

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Parameter	Type	Description
children	Array of **IssueInfoVO** objects	**Definition** Child work item set of a work item.
path	String	**Definition** Path of a child work item. **Range** N/A
ir2feature	String	**Definition** Association field of IRs and SFs.
need_break	String	**Definition** Whether a work item needs to be broken down. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
break_status	String	**Definition** Decomposition status. **decomposed**: Decomposed. **undecomposed**: Undecomposed. --: N/A. **Range** • **decomposed**: Decomposed. • **undecomposed**: Undecomposed. • --: N/A.
baseline	String	**Definition** Work item baseline status. **Range** • **null**: not baselined • **baselined** • **baseline-reviewing**: baseline review in progress
priority	String	**Definition** Work item priority. Some work items have this field. **Range** • Low • Medium • High

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Parameter	Type	Description
related_network_security	String	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A
business_domain	String	**Definition** Domain field. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others

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Parameter	Type	Description
plan_pi	String	**Definition** Work item release plan ID. **Range** N/A
plan_iteration	String	**Definition** ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. **Range** N/A
change_status	String	**Definition** Work item change status. **change-reviewing**: Change reviewing. **changed**: Changed. **unchange** or **null**: Not changed. **Range** • **change-reviewing**: Change reviewing. • **changed**: Changed. • **unchanged**: Not changed. • **null**: Not changed.
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** 0 to 512 characters.
submitted_by	Array of **UserEntity** objects	**Definition** Work item proposer.
ir2rr	String	**Definition** ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Range** N/A
feature_set	String	**Definition** Feature set ID. **Range** N/A

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Parameter	Type	Description
expected_repair_date	String	**Definition** Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Range** N/A
found_pi	String	**Definition** ID of the release plan where a bug is found. This field is available only for bugs. **Range** N/A
found_iteration	String	**Definition** ID of the sprint plan where a bug is found. This field is available only for bugs. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** 0 to 50,000 characters.
repair_solution	String	**Definition** Fix solution. This field is available only for bugs. **Range** N/A
test_report	String	**Definition** Test report. This field is available only for bugs. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is available only for bugs. **Range** N/A

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Parameter	Type	Description
sys_activation_reason	String	**Definition** Activation reason. This field is available only for bugs. **Range** N/A
sys_return_reason	String	**Definition** Reason for return. This field is available only for bugs. **Range** N/A
test_failures_times	Integer	**Definition** Number of times that regression failed. This field is available only for bugs. **Range** N/A
close_type	String	**Definition** Closure type. Among preset fields, only bugs have this field. The optional values are: **problem_solved**: Closed as problem solved. **problem_to_requirement**: Closed as problem converted to requirement. **duplicate_problem**: Closed as a duplicate problem. **not_a_problem**: Closed as not a problem. These correspond to problem solved closure, problem converted to requirement closure, duplicate problem closure, and non-problem closure, respectively. **Range** • **problem_solved**: Closed as problem solved. • **problem_to_requirement**: Closed as problem converted to requirement. • **duplicate_problem**: Closed as a duplicate problem. • **not_a_problem**: Closed as not a problem.

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Table 4-957 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Table 4-958 LabelEntity

Parameter	Type	Description
id	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Range** A string of 18 to 19 digits.
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.

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Parameter	Type	Description
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue

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Parameter	Type	Description
title	String	**Definition** Label title. **Range** N/A

Table 4-959 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition** Code of a custom field of a work item. Obtain the value from the **Querying Field Templates** API. The value is **code** in the response body. **Range** N/A
value	String	**Definition** Custom field value of a work item. **Range** N/A

Table 4-960 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A

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Parameter	Type	Description
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-961 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying R&D requirement details

```
GET https://{endpoint}/v2/ipdprojectservice/projects/ce075137bdb74086a700ce80dfd5f08a/issues/1027299517722046465?category=IR
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "data" : {
    "id" : "1027299517722046465",
    "title" : "11111",
    "description" : "<p>[Requirement background]</p><p><br></p>[Requirement value]</p> <p><br></p><p>[Requirement details]</p>",
```

```
    "type" : "requirement",
    "number" : "IR20240805197935",
    "category" : "IR",
    "project_id" : "ce075137bdb74086a700ce80dfd5f08a",
    "status" : "Start",
    "state" : "Working",
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test alias"
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test alias"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test alias"
    },
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "link" : "",
    "labels" : [ ],
    "custom_fields" : [ ],
    "path" : "/1027299517722046465",
    "ir2feature" : "",
    "need_break" : "yes",
    "break_status" : "decomposed",
    "priority" : "Medium",
    "related_network_security" : "no",
    "business_domain" : "software",
    "submitted_by" : [ {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test alias"
    } ],
    "ir2rr" : "1027242599229992961"
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.13.11 Querying Work Item List on the Personal Workbench

Function

This API is used to obtain the work items of the current user in the tenant space, including their raw requirements, system features, R&D requirements, bugs, and tasks. You can filter work items by type, priority, creation time, update time, planned completion time, status, and responsible project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/tenant/query

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Table 4-962 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition** 32-character UUID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **project_id** in the response message body is the project ID. **Constraints** Multiple projects are separated by commas (,). A maximum of 10 projects can be queried at a time. If the number of projects exceeds 10, the first 10 project IDs after deduplication will be used. **Range** N/A **Default Value** N/A
issue_type	Yes	String	**Definition** Work item type. **Constraints** Use commas (,) to separate multiple values. **Range** • RR • SF • Epic • FE • IR • SR • AR • US • Bug • Task **Default Value** N/A

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Request Parameters

Table 4-963 Request body parameters

Parameter	Mandatory	Type	Description
filter	No	Array of Map<String,ConditionVO> objects	**Definition** Array of query filters, where each element defines a filter condition as a **Map<String, ConditionVO>** object. Within the **Map**, the **key** represents the database column to query and **ConditionVO** indicates the condition's value. The value source is dynamically determined by the **key**. For example, a filter element **{"descendants.plan_pi": {"values": ["956200745322848257"], "operator": "||"}}** queries for work items under the release with ID 956200745322848257. This translates to a SQL clause: select ... where plan_pi in ("956200745322848257"). **plan_pi** is used as the key. **descendants.** indicates a search within a tree structure for matching child items and is optional. In general use, **plan_pi** alone is sufficient as the key. The release ID is the value of the query condition. To query work items under multiple releases, provide multiple release plan IDs in the **values** array. **Constraints** Max. 200 characters. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
filter_mode	No	String	**Definition** Filtering mode. **Constraints** Max. 512 characters. **Range** **OR_AND**: The relationship between multiple filters is OR, and the relationship between the key and value of the same filter is AND. **AND_OR**: The relationship between multiple filters is AND, and the relationship between the key and value of the same filter is OR. **Default Value** AND_OR
page	No	**PageInfoVO** object	**Definition** Pagination information. **Constraints** N/A **Range** N/A **Default Value** N/A
sort	No	Array of **SortInfo** objects	**Definition** Sorting criteria. **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-964 ConditionVO

Parameter	Mandatory	Type	Description
values	No	Array of strings	**Definition** Value of the query condition. **Range** The value is determined by the query key. If the key is **plan_pi**, the value must be a release plan ID. If the key is a user field like **assignee**, the value must be a user ID. If the key is a datetime field like **created_date**, the value is typically a millisecond-precision timestamp range (for example, **[1760284800000,1760371199999]**). **Constraints** Max. 200 characters.

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Parameter	Mandatory	Type	Description
operator	No	String	**Definition** Operator. **Constraints** N/A **Range** • **||** indicates that the relationship between the query target and values is OR. • **!** indicates that the relationship between the query target and values is NOT. • **=**: indicates that the relationship between the query target and values is equals. It is used when there is only one element in **values**. • **<>**, **<**, and **>** indicate that the relationship between the query target and values is range, less than, or greater than. Typically used for date/time and integer type filtering. Boundary values are included. **Default Value** "||"

Table 4-965 PageInfoVO

Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition** Page index. **Constraints** N/A **Range** 1 to 10000 **Default Value** 1

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Parameter	Mandatory	Type	Description
page_size	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 5 to 200 **Default Value** 200

Table 4-966 SortInfo

Parameter	Mandatory	Type	Description
field	No	String	**Definition** Sorting field code. **Constraints** N/A **Range** Obtain the value from the API for **querying field templates**. The value is **code** in the response body. **Default Value** N/A
asc	No	Boolean	**Definition** Ascending or not. **Constraints** N/A **Range** • **true**: ascending • **false**: descending **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-967 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Information. **Range** N/A
result	**IssueListResult** object	**Definition** Result data.

Table 4-968 IssueListResult

Parameter	Type	Description
issues	Array of **IssueVO** objects	**Definition** Work item list. **Range** N/A
total	Integer	**Definition** Total number of work items that meet the filter criteria. **Range** N/A

Table 4-969 IssueVO

Parameter	Type	Description
sys_analysis_conclusion	String	**Definition** Analysis conclusion, which is filled during RR acceptance. **Range** N/A

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Parameter	Type	Description
sys_remark	String	**Definition** Remarks. This field is filled during RR submission for acceptance. **Range** N/A
promised	**OptionVO** object	**Definition** Promised or not. This field is filled during RR acceptance. **Range** N/A
type	String	**Definition** Work item type. **Range** • **requirement** (R&D requirement) • **raw requirement** • **bug** • **task** **feature**
belong_inside	String	**Definition** Whether a work item is submitted across projects. **Range** • **1**: submitted across projects • **0**: submitted within a project
src_domain	**DomainVO** object	**Definition** ID of the project space where the work item is created. **Range** N/A
domain_id	**DomainVO** object	**Definition** ID of the project space to which the work item belongs. **Range** N/A

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Parameter	Type	Description
send_from	String	**Definition** ID of the raw requirement's upstream requirement. **Range** N/A
number	String	**Definition** Work item ID, which consists of the work item type, year, month, day, and six random digits. For example, an IR created on September 30, 2025 may be numbered **RR20250930982833**. **Range** N/A
send_to	String	**Definition** ID of the raw requirement's downstream requirement. **Range** N/A
path	String	**Definition** Path between the parent and child work items. **Range** N/A
workload_man_day	String	**Definition** Planned workloads of a work item. **Range** N/A
sys_check_conclusion	String	**Definition** Acceptance conclusion. This field is filled during RR acceptance. **Range** N/A
id	String	**Definition** Unique ID of a work item. **Range** N/A

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Parameter	Type	Description
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
stay_days	Integer	**Definition** Number of days that a work item stays in the current status. **Range** N/A
assigned_cc	Array of **UserVO** objects	**Definition** Cc recipient. **Range** N/A
submit_time	String	**Definition** Submission time of a work item. It is the time when the work item enters the workflow, rather than the creation time. **Range** N/A
workitem2label	Array of **WorkItemLabelVO** objects	**Definition** Work item label. **Range** N/A
sys_return_conclusion	String	**Definition** Reason for return. This field is filled when an RR/bug is returned. **Range** N/A
close_time	String	**Definition** Completion time of a work item. **Range** N/A

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Parameter	Type	Description
priority	**OptionVO** object	**Definition** Priority. **Range** • Low • Medium • High
modified_date	String	**Definition** Last modification time of a work item. **Range** N/A
created_by	**UserVO** object	**Definition** Work item creator. **Range** N/A
break_status	**OptionVO** object	**Definition** Breakdown status. **Range** N/A
status_modified_date	String	**Definition** Time when the work item was last transferred, which can be used to calculate the stay days. The value is a UNIX timestamp in milliseconds. **Range** N/A
expect_delivery_time	String	**Definition** Expected completion time. The value is a UNIX timestamp in milliseconds. **Range** N/A
parent_id	String	**Definition** Parent work item ID of a work item. **Range** N/A

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Parameter	Type	Description
assignee	**UserVO** object	**Definition** Owner. **Range** N/A
region	String	**Definition** Domain of the tenant to which the work item belongs. **Range** N/A
status	**AlmStatus** object	**Definition** Work item status. **Range** N/A
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. **Range** N/A
plan_pi	**PlanVO** object	**Definition** Release to which a work item belongs. **Range** N/A
link	String	**Definition** Relationship field of the associated work item. Use commas (,) to separate multiple values. **Range** N/A
description	String	**Definition** Work item description. A maximum of 500,000 characters are supported. **Range** N/A
is_suspended	**OptionVO** object	**Definition** Suspended or not. **Range** N/A

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Parameter	Type	Description
change_status	**OptionVO** object	**Definition** Change review status of a work item. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
sum_workload_man_day	String	**Definition** Actual workloads of a work item. **Range** N/A
sys_close_reason	String	**Definition** Reason for closing a work item. **Range** N/A
sys_resubmit_reason	String	**Definition** Reason for resubmission, which is used when resubmitting a returned RR/bug. **Range** N/A
plan_end_date	String	**Definition** Planned completion time of a work item. **Range** N/A
rr2ir	String	**Definition** ID of the child IR of an RR. Use commas (,) to separate multiple values. **Range** N/A
category_layer_id	String	**Definition** Work item type level ID. **Range** N/A

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Parameter	Type	Description
submitted_by	Array of **UserVO** objects	**Definition** Work item submitter. **Range** N/A
rr2us	String	**Definition** ID of the child US of an RR. Use commas (,) to separate multiple values. **Range** N/A
sys_no_develop_reason	String	**Definition** Reason why no development is requirement for the work item. **Range** N/A
plan_iteration	**PlanVO** object	**Definition** Sprint to which the work item belongs. **Range** N/A
sys_return_reason	String	**Definition** Reason for return. It is usually used when returning an RR/bug. **Range** N/A
cascade_delete	String	**Definition** Flag indicating whether to perform cascading deletion. **Range** N/A
recipient	Array of **UserVO** objects	**Definition** Receiver. It is usually used for RRs. **Range** N/A
modified_by	Array of **UserVO** objects	**Definition** Last modifier of a work item. **Range** N/A

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Parameter	Type	Description
created_date	String	**Definition** Creation time of a work item. **Range** N/A
category	String	**Definition** Work item type. **Range** • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
collaborative_status	String	**Definition** Collaboration status of an R&D requirement. **Range** N/A
project	**DomainVO** object	**Definition** Project to which the work item belongs. **Range** N/A
child_issues	Map<String,**IssueVO**>	**Definition** Child work item list. **Range** N/A
activate_times	Integer	**Definition** Number of activation times. The value is automatically assigned when the bug is activated. **Range** N/A
baseline	**OptionVO** object	**Definition** Work item baseline status. **Range** N/A

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Parameter	Type	Description
business_domain	OptionVO object	**Definition** Domain of a work item. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
children	String	**Definition** ID of a child work item. Use commas (,) to separate multiple values. **Range** N/A
collaborative_history	String	**Definition** Change history of a collaborative requirement's status. The value is a JSON string. **Range** N/A

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Parameter	Type	Description
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A
convolution_actual_hours	String	**Definition** Actual roll-up workloads, summed from the actual workloads of all the child and collaborative work items. **Range** N/A
convolution_plan_hours	String	**Definition** Planned roll-up workloads, summed from the planned workloads of all the child and collaborative work items. **Range** N/A
develop_owner	String	**Definition** Development owner. This field is usually used for nodes in the developing status. **Range** N/A
done_ratio	**OptionVO** object	**Definition** Progress. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. **Range** N/A
feature2ir	String	**Definition** ID of the child IR of an SF. Use commas (,) to separate multiple values. **Range** N/A

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Parameter	Type	Description
feature_set	**OptionVO** object	**Definition** Feature set to which the SF belongs. **Range** N/A
found_env	**OptionVO** object	**Definition** Environment. **Range** N/A
found_iteration	**PlanVO** object	**Definition** Sprint. **Range** N/A
found_pi	**PlanVO** object	**Definition** Release. **Range** N/A
function_scene	String	**Definition** Function scenario. **Range** N/A
ir2feature	String	**Definition** ID of the SF associated with an IR. An IR can be associated with only one SF. **Range** N/A
ir2rr	String	**Definition** ID of the parent RR associated with an IR. Use commas (,) to separate multiple values. **Range** N/A
issue_opinion_id	String	**Definition** ID of the decision comment associated with a work item. **Range** N/A

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Parameter	Type	Description
issue_review_id	String	**Definition** ID of the review comment associated with a work item. **Range** N/A
module	**OptionVO** object	**Definition** Module. **Range** N/A
need_break	**OptionVO** object	**Definition** Whether work item breakdown is required. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
need_develop	**OptionVO** object	**Definition** Whether development is required. **Range** N/A
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** N/A
no_develop_reason	String	**Definition** Reason for no development required. **Range** N/A
order	Integer	**Definition** Priority order. **Range** 1–100
plan_dev_end_date	String	**Definition** Planned development end time. This field is usually used for nodes in the developing status. The value is a UNIX timestamp in milliseconds. **Range** N/A

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Parameter	Type	Description
plan_processing_end_date	String	**Definition** Planned end time of processing. This field is usually used for in-progress nodes. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_researchanddevelop_end_date	String	**Definition** Planned R&D end time. This field is usually used for nodes in the R&D status. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_test_end_date	String	**Definition** Planned test end time. This field is usually used for nodes in the testing status. The value is a UNIX timestamp in milliseconds. **Range** N/A
position_float	String	**Definition** Initial position of a work item in the list. **Range** N/A
processing_owner	String	**Definition** Owner for in-progress nodes. This field is usually used for in-progress nodes. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** N/A

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Parameter	Type	Description
regression_failure_number	Integer	**Definition** Number of times that regression failed. This field is automatically assigned when the bug test fails. **Range** N/A
related_network_security	**OptionVO** object	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
repair_solution	String	**Definition** Fix solution. This field is usually used for bugs. **Range** N/A
researchanddevelop_owner	String	**Definition** R&D owner. This field is usually used for nodes in the R&D status. **Range** N/A
severity	**OptionVO** object	**Definition** Severity. **Range** N/A
sys_activation_reason	String	**Definition** Severity. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is used when the bug does not need to be fixed. **Range** N/A

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Parameter	Type	Description
test_failures_times	Integer	**Definition** Number of times that the test failed. **Range** N/A
test_owner	String	**Definition** Test owner. This field is usually used for nodes in the testing status. **Range** N/A
test_report	String	**Definition** Test report. **Range** N/A
val_feature	**OptionVO** object	**Definition** Value feature. **Range** N/A
workitem2ganttchart	String	**Definition** ID of the Gantt chart associated with a work item. **Range** N/A
workitem2mindmap	String	**Definition** ID of the mind map associated with a work item. **Range** N/A

Table 4-970 WorkItemLabelVO

Parameter	Type	Description
id	String	**Definition** Label ID. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
category	String	**Definition** Object type. **Range** **Label**
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**

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Parameter	Type	Description
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue
title	String	**Definition** Label title. **Range** 1 to 30 characters.
type	String	**Definition** Data type of the current object. **Range** **label**

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Parameter	Type	Description
state	String	**Definition** Lifecycle of a label. **Range** **In use**: The label is normal and can be used. **Discarded**: The label has been deleted and cannot be used. **Deleted**: The project to which the label belongs has been deleted and the label cannot be used.
modified_by	String	**Definition** Last modifier. **Range** N/A

Table 4-971 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Table 4-972 AlmStatus

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A

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Parameter	Type	Description
belonging	String	**Definition** Work item status. **Range** **START**: **To Do** state, such as **Initial** or **Analyzing**. **IN_PROGRESS**: **Doing** state, such as **Fixing**, **Testing**, or **In R&D**. **END**: **Done** state, such as **Closed** or **Completed**.
space_id	String	**Definition** ID of the project space to which the status belongs. **Range** N/A
name	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Status code. **Range** N/A
definition_type	String	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. **Range** N/A

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Parameter	Type	Description
belong_definition_type	Integer	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. It is different from **definition_type**. If the definition level is system-level or tenant-defined, a copy of metadata is copied to the project space. **Range** N/A
display_value	String	**Definition** Status name, which is the same as the value of **name**. **Range** N/A
position	Integer	**Definition** Position sequence. **Range** N/A
displayable	Integer	**Definition** Display or not. **Range** N/A
editable	Integer	**Definition** Editable or not. **Range** N/A
deletable	Integer	**Definition** Deletable or not. **Range** N/A
mutable	Integer	**Definition** Whether the status value is fixed. **Range** N/A

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Parameter	Type	Description
title_py	String	**Definition** Initial letters of a title. **Range** N/A
created_by	String	**Definition** User ID of the creator. **Range** N/A
created_date	Integer	**Definition** Creation time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_date	Integer	**Definition** Last modification time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_by	String	**Definition** ID of the last modifier. **Range** N/A
linkage_node_fields	Boolean	**Definition** Whether to add the node owner/end time in the workflow configuration. **Range** **true**: The node owner/end time can be added to the status flow node. **false**: The node owner/end time cannot be added to the status flow node.

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Table 4-973 DomainVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a project space. **Range** N/A
name	String	**Definition** Project space name. **Range** N/A
title	String	**Definition** Project space name. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project space. **Range** N/A
parent_id	String	**Definition** Parent project space ID of the project space, which is used only in programs. **Range** N/A
category	String	**Definition** Project space type. **Range** • **Project** • **Group**
created_by	String	**Definition** ID of the project space creator. **Range** N/A
model_id	String	**Definition** Model ID corresponding to the project space. **Range** • **10001**: system device • **10002**: standalone software

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Table 4-974 PlanVO

Parameter	Type	Description
id	String	**Definition**: ID of a release, sprint, or milestone. **Value range**: N/A
title	String	**Definition**: Title. **Options**: N/A
category	String	**Definition**: Type. The value is of the enumerated type. **Value range**: **PI**: release **Iteration**: sprint **PlanMilestone**: milestone
description	String	**Definition**: Description **Options**: N/A
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.

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Parameter	Type	Description
status	String	**Definition**: Release/Sprint status. The value is of the enumerated type. **Value range**: **planned**: not started **going**: ongoing **ended**
children	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	String	**Definition** Planned start time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
plan_end_date	String	**Definition** Planned completion time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
created_date	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A

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Parameter	Type	Description
parent_id	String	**Definition** Parent work item ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** N/A
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Table 4-975 OptionVO

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A

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Parameter	Type	Description
display_value	String	**Definition** Option name. **Range** N/A
value	String	**Definition** Unique ID of an option. The ID and value of a custom option are the same. **Range** N/A
code	String	**Definition** Option code. **Range** N/A
value_py	String	**Definition** Initial letter of the Chinese pinyin of the option name. **Range** N/A
sequence	Integer	**Definition** Option's position in the list. **Range** N/A
level	Integer	**Definition** Hierarchical depth (**1**, **2**, **3**, or **4**) of an option. For single-choice and multi-choice lists, the value is **1**. **Range** **1**: first level. Options in both single-choice and multi-choice lists belong to the first level. **2**: second level. **3**: third level. **4**: fourth level.
domain_id	String	**Definition** ID of the project space to which the option belongs. **Range** N/A

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Parameter	Type	Description
belong_definition_type	String	**Definition** Definition level of the option. **1**, **2**, and **3** indicate the system level, **4** indicates the tenant-defined level, and **5** indicates the project-defined level. **Range** **1**: system-preset option. **2**: system-preset option. **3**: system-preset option. **4**: tenant-defined option. **5**: project-defined option.

Status code: 400

Table 4-976 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying the R&D requirements whose status is **Start** and priority is **High** on the personal workbench (15 records each page)

```
POST https://{endpoint}/v1/ipdprojectservice/projects/tenant/query?
issue_type=IR,US&project_id=4f967f6f05554273b0476da123e73b41

{
  "page" : {
    "page_no" : 1,
    "page_size" : 15
  },
  "filter" : [ {
    "category" : {
      "values" : [ "IR", "US", "AR", "SR" ],
      "operator" : "||"
    }
```

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```
 }, {
   "priority" : {
     "values" : [ "High" ],
     "operator" : "||"
   }
 }, {
   "status" : {
     "values" : [ "Start" ],
     "operator" : "||"
   }
 } ]
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "total" : 1,
    "issues" : [ {
      "promised" : null,
      "type" : "raw requirement",
      "src_domain" : {
        "id" : "965714701520515072",
        "name" : "IPD-system device-0217",
        "title" : "IPD-system device-0217",
        "project_id" : "e4b0424709934bd1a54753e70336564d",
        "parent_id" : null,
        "category" : "Project",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "model_id" : "10001"
      },
      "domain_id" : {
        "id" : "965714701520515072",
        "name" : "IPD-system device-0217",
        "title" : "IPD-system device-0217",
        "project_id" : "e4b0424709934bd1a54753e70336564d",
        "parent_id" : null,
        "category" : "Project",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "model_id" : "10001"
      },
      "send_from" : "",
      "number" : "RR20240402742063",
      "send_to" : "",
      "convolution_actual_hours" : null,
      "workload_man_day" : null,
      "id" : "981935538274476033",
      "state" : "In use",
      "stay_days" : 1,
      "assigned_cc" : null,
      "submit_time" : "1712041275000",
      "workitem2label" : null,
      "close_time" : null,
      "priority" : {
        "id" : "965714705672876036",
        "display_value" : "Medium",
        "value" : "Medium",
        "code" : "Medium",
        "value_py" : "2",
        "sequence" : 2,
        "level" : 1,
        "domain_id" : "965714701520515072",
        "belong_definition_type" : "5"
      },
      "modified_date" : "1712041276000",
```

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```
  "created_by" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator and project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  },
  "break_status" : {
    "id" : "965714705672876041",
    "display_value" : "undecomposed",
    "value" : "undecomposed",
    "code" : "undecomposed",
    "value_py" : "undecomposed",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "965714701520515072",
    "belong_definition_type" : "5"
  },
  "status_modified_date" : "1712041276000",
  "canceled" : null,
  "expect_delivery_time" : null,
  "parent_id" : null,
  "assignee" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator and project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  },
  "region" : "region",
  "status" : {
    "id" : "965714705815482388",
    "belonging" : "START",
    "space_id" : "965714701520515072",
    "name" : "Analyzing",
    "status_category" : null,
    "code" : "Analyse",
    "definition_type" : "5",
    "belong_definition_type" : 3,
    "belong_scope" : null,
    "display_value" : "Analyzing",
    "position" : 2,
    "displayable" : 1,
    "editable" : 1,
    "deletable" : 1,
    "mutable" : 1,
    "title_py" : "fx",
    "builtin" : null,
    "label" : null,
    "description" : null,
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_userinfo" : null,
    "created_on" : null,
```


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```
  "created_date" : 1708202727000,
  "modified_date" : 1708202727000,
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "category_code" : null,
  "editing_fields" : null,
  "associate" : null,
  "linkage_node_fields" : false
},
"tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
"link" : "",
"is_suspended" : null,
"change_status" : null,
"title" : "RR-01",
"sum_workload_man_day" : null,
"plan_end_date" : null,
"rr2ir" : "",
"convolution_plan_hours" : null,
"submitted_by" : [ {
  "watcher" : null,
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_num_id" : 4091,
  "user_name" : "devcloud_devcloud_01",
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "domain_name" : "devcloud_devcloud_01",
  "nick_name" : "Test account",
  "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
  "role_name" : "Project administrator and project manager",
  "role_code" : "project_admin,Project manager",
  "image_id" : null,
  "region" : null,
  "has_removed" : null
} ],
"rr2us" : "",
"cascade_delete" : "none",
"recipient" : [ {
  "watcher" : null,
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_num_id" : 4091,
  "user_name" : "devcloud_devcloud_01",
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "domain_name" : "devcloud_devcloud_01",
  "nick_name" : "Test account",
  "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
  "role_name" : "Project administrator and project manager",
  "role_code" : "project_admin,Project manager",
  "image_id" : null,
  "region" : null,
  "has_removed" : null
} ],
"modified_by" : {
  "watcher" : null,
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_num_id" : 4091,
  "user_name" : "devcloud_devcloud_01",
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "domain_name" : "devcloud_devcloud_01",
  "nick_name" : "Test account",
  "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
  "role_name" : "Project administrator and project manager",
  "role_code" : "project_admin,Project manager",
  "image_id" : null,
  "region" : null,
  "has_removed" : null
},
"created_date" : "1712041275000",
"closed_flag" : null,
"category" : "RR",
"collaborative_status" : [ ],
"setup" : true
```


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```
  } ]
 }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Querying the R&D requirements whose status is **Start** and priority is **High** on the personal workbench (15 records each page)

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

public class ShowTenantIssueListSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowTenantIssueListRequest request = new ShowTenantIssueListRequest();
        QueryVO body = new QueryVO();
        PageInfoVO pagebody = new PageInfoVO();
        pagebody.withPageNo(1)
            .withPageSize(15);
        List<String> listFilterValues = new ArrayList<>();
        listFilterValues.add("Start");
        ConditionVO filterFilter = new ConditionVO();
        filterFilter.withOperator("||")
            .withValues(listFilterValues);
        Map<String, ConditionVO> listFilterFilter1 = new HashMap<>();
        listFilterFilter1.put("status", filterFilter);
```

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```
        List<String> listFilterValues1 = new ArrayList<>();
        listFilterValues1.add("High");
        ConditionVO filterFilter2 = new ConditionVO();
        filterFilter2.withOperator("||")
            .withValues(listFilterValues1);
        Map<String, ConditionVO> listFilterFilter3 = new HashMap<>();
        listFilterFilter3.put("priority", filterFilter2);
        List<String> listFilterValues2 = new ArrayList<>();
        listFilterValues2.add("IR");
        listFilterValues2.add("US");
        listFilterValues2.add("AR");
        listFilterValues2.add("SR");
        ConditionVO filterFilter4 = new ConditionVO();
        filterFilter4.withOperator("||")
            .withValues(listFilterValues2);
        Map<String, ConditionVO> listFilterFilter5 = new HashMap<>();
        listFilterFilter5.put("category", filterFilter4);
        List<Map<String, ConditionVO>> listbodyFilter = new ArrayList<>();
        listbodyFilter.add(listFilterFilter1);
        listbodyFilter.add(listFilterFilter3);
        listbodyFilter.add(listFilterFilter5);
        body.withPage(pagebody);
        body.withFilter(listbodyFilter);
        request.withBody(body);
        try {
            ShowTenantIssueListResponse response = client.showTenantIssueList(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Querying the R&D requirements whose status is **Start** and priority is **High** on the personal workbench (15 records each page)

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()
```

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```
try:
    request = ShowTenantIssueListRequest()
    pagebody = PageInfoVO(
        page_no=1,
        page_size=15
    )
    listValuesFilter = [
        "Start"
    ]
    filterFilter = ConditionVO(
        operator="||",
        values=listValuesFilter
    )
    listFilterFilter1 = {
        "status": filterFilter
    }
    listValuesFilter1 = [
        "High"
    ]
    filterFilter2 = ConditionVO(
        operator="||",
        values=listValuesFilter1
    )
    listFilterFilter3 = {
        "priority": filterFilter2
    }
    listValuesFilter2 = [
        "IR",
        "US",
        "AR",
        "SR"
    ]
    filterFilter4 = ConditionVO(
        operator="||",
        values=listValuesFilter2
    )
    listFilterFilter5 = {
        "category": filterFilter4
    }
    listFilterbody = [
        listFilterFilter1,
        listFilterFilter3,
        listFilterFilter5
    ]
    request.body = QueryVO(
        page=pagebody,
        filter=listFilterbody
    )
    response = client.show_tenant_issue_list(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

Querying the R&D requirements whose status is **Start** and priority is **High** on the personal workbench (15 records each page)

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
```

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```
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowTenantIssueListRequest{}
    pageNoPage:= int32(1)
    pageSizePage:= int32(15)
    pagebody := &model.PageInfoVo{
        PageNo: &pageNoPage,
        PageSize: &pageSizePage,
    }
    var listValuesFilter = []string{
        "Start",
    }
    operatorFilter:= "||"
    filterFilter := model.ConditionVo{
        Operator: &operatorFilter,
        Values: &listValuesFilter,
    }
    var listFilterFilter1 = map[string](model.ConditionVo){
        "status": filterFilter,
    }
    var listValuesFilter1 = []string{
        "High",
    }
    operatorFilter1:= "||"
    filterFilter3 := model.ConditionVo{
        Operator: &operatorFilter1,
        Values: &listValuesFilter1,
    }
    var listFilterFilter4 = map[string](model.ConditionVo){
        "priority": filterFilter3,
    }
    var listValuesFilter2 = []string{
        "IR",
        "US",
        "AR",
        "SR",
```

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```
    }
    operatorFilter2:= "||"
    filterFilter6 := model.ConditionVo{
        Operator: &operatorFilter2,
        Values: &listValuesFilter2,
    }
    var listFilterFilter7 = map[string](model.ConditionVo){
        "category": filterFilter6,
    }
    var listFilterbody = []map[string](model.ConditionVo){
        listFilterFilter1,
        listFilterFilter4,
        listFilterFilter7,
    }
    request.Body = &model.QueryVo{
        Page: pagebody,
        Filter: &listFilterbody,
    }
    response, err := client.ShowTenantIssueList(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.13.12 Batch Creating IPD Project Work Items

Function

This API is used to batch create IPD project work items. Multiple work items can be created in a single request. This API is applicable to scenarios such as importing child work items in batches and creating tasks in batches.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/batch-create

Table 4-977 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character unique project ID, which uniquely identifies a project. It can be obtained by calling the **Listing Projects** API. The value of the **id** field in the response body is the project ID. **Constraints** N/A **Range** 32 characters. **Default Value** N/A

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Request Parameters

Table 4-978 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Table 4-979 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of **CreateIpdProjectIssueRequestBody** objects	**Definition** Work item creation model. **Constraints** N/A

Table 4-980 CreateIpdProjectIssueRequestBody

Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Work item title. **Constraints** N/A **Range** 2 to 256 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
description	Yes	String	**Definition** Work item description field. **Constraints** N/A **Range** 0 to 500,000 characters. **Default Value** N/A
status	No	String	**Definition** Work item status code. Obtain the value from the **Querying the Work Item Status** API. The value is **code** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
src_domain	No	String	**Definition** ID of the project space of the work item's proposing project. Obtain the value by calling the **Querying the IPD Project List** API. The value of **domain_id** in the response message body is the project space ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
submitted_by	No	String	**Definition** Submitter ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value**
domain_id	No	String	**Definition** ID of the project space of the work item's responsible project. Obtain the value by calling the **Querying the IPD Project List** API. The value of **domain_id** in the response message body is the project space ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
recipient	No	Array of strings	**Definition** Recipient ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits.

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Parameter	Mandatory	Type	Description
expect_delivery_time	No	Long	**Definition** Expected completion time. **Constraints** N/A **Range** Timestamp. **Default Value** N/A
priority	No	String	**Definition** Priority. You can obtain the value of this parameter using the **Querying the Field List** API. The value is the **option** field in the response message body. **Constraints** N/A **Range** • Low • Medium • High **Default Value** N/A
assigned_cc	No	Array of strings	**Definition** Cc recipient ID of a work item. Multiple Cc recipients are supported. **Constraints** A work item can be copied to a maximum of 50 recipients.

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Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Work item type. When editing a work item, this field is mandatory. The value must be the correct type of the current work item, but this field will not be updated. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category_layer_id	No	String	**Definition** ID of the work item type hierarchy. This parameter affects the display of work item levels. Obtain the value from the API for **obtaining the model tree configuration**. Find the corresponding **category_code** in the **category_layer_config** of the response body based on the **category** parameter. The **id** at the same level as **category_code** is the work item type hierarchy ID. **Constraints** N/A **Range** N/A **Default Value** N/A
assignee	Yes	String	**Definition** Work item owner ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition** Work item release plan ID. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=PI** in **PlanVO** in the returned parameters is the release plan ID. **Constraints** This field is available for SRs, ARs, USs, tasks, and bugs by default. **Range** N/A **Default Value** N/A
plan_iteration	No	String	**Definition** ID of the sprint plan in which the work item is completed. You can query the plan list by calling the API for **querying the release/sprint plan list**. The **id** field of the object with **category=Iteration** in **PlanVO** in the returned parameters is the sprint plan ID. **Constraints** A string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_start_date	No	Long	**Definition** Planned end date of a work item. **Constraints** A string of 0 to 13 digits. The negative sign (-) can be used as the prefix. **Range** Timestamp. **Default Value** N/A
plan_end_date	No	Long	**Definition** Planned end date of a work item. **Constraints** A string of 0 to 13 digits. The negative sign (-) can be used as the prefix. **Range** Timestamp. **Default Value** N/A
workload_man_day	No	Integer	**Definition** Planned workloads of a work item. **Constraints** A string of 1 to 9 digits. The value can contain one decimal place. **Range** The value is a number with one decimal place. The value range is 0–999999999.9. **Default Value** N/A

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Parameter	Mandatory	Type	Description
business_domain	No	String	**Definition** Domain. You can obtain the value from the **Querying the Field List** API. The value is the **option** field in the response message body. **Constraints** N/A **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/ availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others **Default Value** N/A

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Parameter	Mandatory	Type	Description
need_break	No	String	**Definition** Whether breakdown is required. You can obtain the value from the **Querying the Field List** API. The value is the **option** field of the desired field in the response message body. **Constraints** N/A **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-981 Response body parameters

Parameter	Type	Description
status	String	**Definition** API call status. **Range** • **success**: Work items are batch created. • **error**: Work items fail to be batch created.
message	String	**Definition** Description of the API call result. The failure cause is provided when the call fails. **Range** N/A

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Parameter	Type	Description
result	Array of **CreatedIssueDetail** objects	**Definition** Details of the child work items that are successfully created in batches, including the complete information of each newly created work item. **Range** N/A

Table 4-982 CreatedIssueDetail

Parameter	Type	Description
id	String	**Definition** Unique ID of the work item. **Range** A numeric string of 18 to 19 characters.
number	String	**Definition** Work item number, automatically generated based on business rules. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
description	String	**Definition** Work item description. **Range** N/A
category	String	**Definition** Work item type. **Range** N/A
category_layer_id	String	**Definition** ID of the hierarchy layer to which the work item belongs. **Range** N/A

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Parameter	Type	Description
parent_id	String	**Definition** Unique ID of the parent work item. **Range** A numeric string of 18 to 19 characters.
domain_id	Object	**Definition** Information of the domain or module to which the work item belongs. **Range** N/A
status	Object	**Definition** Work item status information. **Range** N/A
priority	Object	**Definition** Work item priority information. **Range** N/A
assignee	Object	**Definition** Work item owner information. **Range** N/A
created_by	Object	**Definition** Work item creator information. **Range** N/A
modified_by	Object	**Definition** Last modifier information of the work item. **Range** N/A
created_date	String	**Definition** Work item creation time, in UTC timestamp format. **Range** N/A

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Parameter	Type	Description
modified_date	String	**Definition** Last modification time of the work item, in UTC timestamp format. **Range** N/A
plan_start_date	String	**Definition** Planned start date. **Range** N/A
plan_end_date	String	**Definition** Planned completion date. **Range** N/A
workload_man_day	String	**Definition** Work item workload (person-days). **Range** N/A
business_domain	Object	**Definition** Business domain information. **Range** N/A
need_break	Object	**Definition** Whether to decompose the field value. **Range** N/A
break_status	Object	**Definition** Breakdown status information. **Range** N/A
severity	String	**Definition** Severity. **Range** N/A

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Parameter	Type	Description
region	String	**Definition** Region identifier. **Range** N/A
tenant_id	String	**Definition** Tenant ID. **Range** N/A
state	String	**Definition** Work item status description. **Range** N/A
stay_days	Integer	**Definition** Number of stay days. **Range** N/A
position_float	Number	**Definition** Work item sorting field. **Range** N/A
setup	Boolean	**Definition** Whether initialization is complete. **Range** • **true**: Initialization is complete. • **false**: Initialization is incomplete.

Status code: 400

Table 4-983 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
POST https://{endpoint}/v1/ipdprojectservice/projects/8a5cc89982a44f53bdd55a050dfffa6f/issues/batch-create

[ {
  "parent_id" : "1300180570080055297",
  "category_layer_id" : "10003",
  "category" : "SR",
  "title" : "Child work item 01.",
  "description" : "<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></p><p>[Requirement details]</p>",
  "domain_id" : "1250495940590870528",
  "status" : "Start",
  "assignee" : "a360371833bf4c558f796fd707b44daf",
  "module" : "",
  "priority" : "High.",
  "plan_pi" : "",
  "plan_iteration" : "",
  "plan_start_date" : "",
  "plan_end_date" : "1780761600000",
  "workload_man_day" : "11.0",
  "business_domain" : "soft-hardware",
  "need_break" : "yes",
  "no_break_reason" : "",
  "assigned_cc" : "",
  "severity" : ""
}, {
  "parent_id" : "1300180570080055297",
  "category_layer_id" : "10003",
  "category" : "SR",
  "title" : "Child SR work item 01.",
  "description" : "<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></p><p>[Requirement details]</p>",
  "domain_id" : "1250495940590870528",
  "status" : "Start",
  "assignee" : "a360371833bf4c558f796fd707b44daf",
  "module" : "",
  "priority" : "High.",
  "plan_pi" : "",
  "plan_iteration" : "",
  "plan_start_date" : "",
  "plan_end_date" : 1782662400000,
  "workload_man_day" : "11.0",
  "business_domain" : "soft-hardware",
  "need_break" : "yes",
  "no_break_reason" : "",
  "assigned_cc" : "",
  "severity" : ""
} ]
```

Example Responses

Status code: 200

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```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "position_float" : 9.999989973003197E9,
    "develop_owner" : null,
    "type" : "requirement",
    "plan_test_end_date" : null,
    "domain_id" : {
      "id" : "1250495940590870528",
      "name" : "IPD-System device 0413001.",
      "title" : "IPD-System device 0413001.",
      "project_id" : "8a5cc89982a44f53bdd55a050dfffa6f",
      "parent_id" : null,
      "category" : "Project",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "model_id" : "10001",
      "children" : [ ],
      "project_template_id" : "10001",
      "category_template_id" : "10001",
      "category_template_name" : null,
      "feature_template_id" : "10001",
      "feature_template_name" : null,
      "is_managed_by_tenant" : false,
      "is_locked" : false
    },
    "convolution_actual_hours" : null,
    "number" : "SR20260909181112",
    "path" : null,
    "children" : null,
    "workload_man_day" : "11.0",
    "c73952858121139281 92" : "",
    "id" : "1304479185522954241",
    "ir2feature" : null,
    "state" : "Working.",
    "stay_days" : 0,
    "need_break" : {
      "id" : "1250531739071512611",
      "field_id" : "10164",
      "display_value" : "Yes.",
      "value" : "yes",
      "code" : "yes",
      "value_py" : "yes",
      "sequence" : 1,
      "level" : 1,
      "domain_id" : "1250495940590870528",
      "belong_definition_type" : "5"
    },
    "collaborative_history" : null,
    "related_network_security" : null,
    "assigned_cc" : "",
    "module" : "",
    "workitem2label" : null,
    "baseline" : null,
    "close_time" : null,
    "modified_date" : "1788941673000",
    "priority" : {
      "id" : "1250531739071512598",
      "field_id" : "10042",
      "display_value" : "High.",
      "value" : "High.",
      "code" : "High.",
      "value_py" : "3",
      "sequence" : 1,
      "level" : 1,
      "domain_id" : "1250495940590870528",
      "belong_definition_type" : "5"
    },
    "created_by" : {
```


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```
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_name" : "devcloud_devcloud_s00404480_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "nick_name" : "Nickname 0720.",
    "role_id" : "720264df24cf49cebcc4d91a439fe9e7,82120827332346b9a12557838ac6f3b0",
    "role_name" : "Project manager, project administrator.",
    "role_alias_name" : "Project manager,Project admin",
    "role_code" : "Project manager,project_admin"
   },
   "break_status" : {
    "id" : "1250531739071512602",
    "field_id" : "10253",
    "display_value" : "Undecomposed.",
    "value" : "undecomposed",
    "code" : "undecomposed",
    "value_py" : "undecomposed",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "1250495940590870528",
    "belong_definition_type" : "5"
   },
   "status_modified_date" : "1788941673000",
   "important" : null,
   "collaboratives" : null,
   "parent_id" : "1300180570080055297",
   "business_domain" : {
    "id" : "1250531739075706888",
    "field_id" : "10024",
    "display_value" : "Hardware and software.",
    "value" : "soft-hardware",
    "code" : "soft-hardware",
    "value_py" : "ryj",
    "sequence" : 1,
    "level" : 1,
    "domain_id" : "1250495940590870528",
    "belong_definition_type" : "5"
   },
   "assignee" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_name" : "devcloud_devcloud_s00404480_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "nick_name" : "Nickname 0720.",
    "role_id" : "720264df24cf49cebcc4d91a439fe9e7,82120827332346b9a12557838ac6f3b0",
    "role_name" : "Project manager, project administrator.",
    "role_alias_name" : "Project manager,Project admin",
    "role_code" : "Project manager,project_admin"
   },
   "region" : "cn-north-7",
   "status" : {
    "id" : "1250531742158520329",
    "belonging" : "START",
    "name" : "Initial.",
    "code" : "Start",
    "definition_type" : "5",
    "belong_definition_type" : 3,
    "display_value" : "Initial.",
    "linkage_node_fields" : false
   },
   "plan_pi" : "",
   "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
   "link" : null,
   "plan_dev_end_date" : null,
   "description" : "<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></
p><p>[Requirement details]</p>",
   "is_suspended" : null,
   "change_status" : null,
   "title" : "Child work item 01.",
   "sum_workload_man_day" : null,
   "plan_end_date" : "1780761600000",
```


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```
  "plan_start_date" : "",
  "severity" : "",
  "convolution_plan_hours" : null,
  "category_layer_id" : "10003",
  "no_break_reason" : "",
  "c7468879297717088256" : "",
  "plan_iteration" : "",
  "cascade_delete" : null,
  "test_owner" : null,
  "modified_by" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_name" : "devcloud_devcloud_s00404480_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "nick_name" : "Nickname 0720.",
    "role_id" : "720264df24cf49cebcc4d91a439fe9e7,82120827332346b9a12557838ac6f3b0",
    "role_name" : "Project manager, project administrator.",
    "role_alias_name" : "Project manager,Project admin",
    "role_code" : "Project manager,project_admin"
  },
  "closed_flag" : null,
  "created_date" : "1788941673000",
  "category" : "SR",
  "collaborative_status" : [ ],
  "setup" : true
}, {
  "position_float" : 9.999989972347837E9,
  "develop_owner" : null,
  "type" : "requirement",
  "plan_test_end_date" : null,
  "domain_id" : {
    "id" : "1250495940590870528",
    "name" : "IPD-System device 0413001.",
    "title" : "IPD-System device 0413001.",
    "project_id" : "8a5cc89982a44f53bdd55a050dfffa6f",
    "parent_id" : null,
    "category" : "Project",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "model_id" : "10001",
    "children" : [ ],
    "project_template_id" : "10001",
    "category_template_id" : "10001",
    "category_template_name" : null,
    "feature_template_id" : "10001",
    "feature_template_name" : null,
    "is_managed_by_tenant" : false,
    "is_locked" : false
  },
  "convolution_actual_hours" : null,
  "number" : "SR20260909181113",
  "path" : null,
  "children" : null,
  "workload_man_day" : "11.0",
  "c7395285812113928192" : "",
  "id" : "1304479185535537152",
  "ir2feature" : null,
  "state" : "Working.",
  "stay_days" : 0,
  "need_break" : {
    "id" : "1250531739071512611",
    "field_id" : "10164",
    "display_value" : "Yes.",
    "value" : "yes",
    "code" : "yes",
    "value_py" : "yes",
    "sequence" : 1,
    "level" : 1,
    "domain_id" : "1250495940590870528",
    "belong_definition_type" : "5"
  },
```


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```
"collaborative_history" : null,
"related_network_security" : null,
"assigned_cc" : "",
"module" : "",
"workitem2label" : null,
"baseline" : null,
"close_time" : null,
"modified_date" : "1788941673000",
"priority" : {
  "id" : "1250531739071512598",
  "field_id" : "10042",
  "display_value" : "High.",
  "value" : "High.",
  "code" : "High.",
  "value_py" : "3",
  "sequence" : 1,
  "level" : 1,
  "domain_id" : "1250495940590870528",
  "belong_definition_type" : "5"
},
"created_by" : {
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_name" : "devcloud_devcloud_s00404480_01",
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "nick_name" : "Nickname 0720.",
  "role_id" : "720264df24cf49cebcc4d91a439fe9e7,82120827332346b9a12557838ac6f3b0",
  "role_name" : "Project manager, project administrator.",
  "role_alias_name" : "Project manager,Project admin",
  "role_code" : "Project manager,project_admin"
},
"break_status" : {
  "id" : "1250531739071512602",
  "field_id" : "10253",
  "display_value" : "Undecomposed.",
  "value" : "undecomposed",
  "code" : "undecomposed",
  "value_py" : "undecomposed",
  "sequence" : 2,
  "level" : 1,
  "domain_id" : "1250495940590870528",
  "belong_definition_type" : "5"
},
"status_modified_date" : "1788941673000",
"important" : null,
"collaboratives" : null,
"parent_id" : "1300180570080055297",
"business_domain" : {
  "id" : "1250531739075706888",
  "field_id" : "10024",
  "display_value" : "Hardware and software.",
  "value" : "soft-hardware",
  "code" : "soft-hardware",
  "value_py" : "ryj",
  "sequence" : 1,
  "level" : 1,
  "domain_id" : "1250495940590870528",
  "belong_definition_type" : "5"
},
"assignee" : {
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_name" : "devcloud_devcloud_s00404480_01",
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "nick_name" : "Nickname 0720.",
  "role_id" : "720264df24cf49cebcc4d91a439fe9e7,82120827332346b9a12557838ac6f3b0",
  "role_name" : "Project manager, project administrator.",
  "role_alias_name" : "Project manager,Project admin",
  "role_code" : "Project manager,project_admin"
},
"region" : "cn-north-7",
```


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```
    "status" : {
      "id" : "1250531742158520329",
      "belonging" : "START",
      "name" : "Initial.",
      "code" : "Start",
      "definition_type" : "5",
      "belong_definition_type" : 3,
      "display_value" : "Initial.",
      "linkage_node_fields" : false
    },
    "plan_pi" : "",
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "link" : null,
    "plan_dev_end_date" : null,
    "description" : "<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></
p><p>[Requirement details]</p>",
    "is_suspended" : null,
    "change_status" : null,
    "title" : "Child SR work item 01.",
    "sum_workload_man_day" : null,
    "plan_end_date" : "1782662400000",
    "plan_start_date" : "",
    "severity" : "",
    "convolution_plan_hours" : null,
    "category_layer_id" : "10003",
    "no_break_reason" : "",
    "c7468879297717088256" : "",
    "plan_iteration" : "",
    "cascade_delete" : null,
    "test_owner" : null,
    "modified_by" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "devcloud_devcloud_s00404480_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "Nickname 0720.",
      "role_id" : "720264df24cf49cebcc4d91a439fe9e7,82120827332346b9a12557838ac6f3b0",
      "role_name" : "Project manager, project administrator.",
      "role_alias_name" : "Project manager,Project admin",
      "role_code" : "Project manager,project_admin"
    },
    "closed_flag" : null,
    "created_date" : "1788941673000",
    "category" : "SR",
    "collaborative_status" : [ ],
    "setup" : true
  } ]
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchCreateIpdIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchCreateIpdIssuesRequest request = new BatchCreateIpdIssuesRequest();
        request.withProjectId("{project_id}");
        List<CreateIpdProjectIssueParam> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new CreateIpdProjectIssueParam()
                .withTitle("Child work item 01.")
                .withDescription("<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></p><p>[Requirement details]</p>")
                .withStatus("Start")
                .withDomainId("1250495940590870528")
                .withPriority("High.")
                .withAssignedCc()
                .withCategory("SR")
                .withAssignee("a360371833bf4c558f796fd707b44daf")
                .withPlanPi("")
                .withPlanIteration("")
                .withPlanStartDate(L)
                .withPlanEndDate(1780761600000L)
                .withWorkloadManDay(11.0)
                .withBusinessDomain("soft-hardware")
                .withNeedBreak("yes")
                .withCategoryLayerId("10003")
                .withParentId("1300180570080055297")
        );
        listbodyBody.add(
            new CreateIpdProjectIssueParam()
                .withTitle("Child SR work item 01.")
                .withDescription("<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></p><p>[Requirement details]</p>")
                .withStatus("Start")
                .withDomainId("1250495940590870528")
                .withPriority("High.")
                .withAssignedCc()
                .withCategory("SR")
                .withAssignee("a360371833bf4c558f796fd707b44daf")
                .withPlanPi("")
                .withPlanIteration("")
                .withPlanStartDate(L)
                .withPlanEndDate(1782662400000L)
                .withWorkloadManDay(11.0)
                .withBusinessDomain("soft-hardware")
                .withNeedBreak("yes")
                .withCategoryLayerId("10003")
```

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```
            .withParentId("1300180570080055297")
        );
        request.withBody(listbodyBody);
        try {
            BatchCreateIpdIssuesResponse response = client.batchCreateIpdIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchCreateIpdIssuesRequest()
        request.project_id = "{project_id}"
        listBodybody = [
            CreateIpdProjectIssueParam(
                title="Child work item 01.",
                description="<p>[Requirement background]</p><p><br></p><p>[Requirement value]</p><p><br></p><p>[Requirement details]</p>",
                status="Start",
                domain_id="1250495940590870528",
                priority="High.",
                category="SR",
                assignee="a360371833bf4c558f796fd707b44daf",
                plan_pi="",
                plan_iteration="",
                plan_start_date=,
                plan_end_date=1780761600000,
                workload_man_day=11.0,
                business_domain="soft-hardware",
                need_break="yes",
                category_layer_id="10003",
                parent_id="1300180570080055297"
            ),
```

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```
            CreateIpdProjectIssueParam(
                title="Child SR work item 01.",
                description="<p>[Requirement background]</p><p><br></p><p>[Requirement value]</
p><p><br></p><p>[Requirement details]</p>",
                status="Start",
                domain_id="1250495940590870528",
                priority="High.",
                category="SR",
                assignee="a360371833bf4c558f796fd707b44daf",
                plan_pi="",
                plan_iteration="",
                plan_start_date=,
                plan_end_date=1782662400000,
                workload_man_day=11.0,
                business_domain="soft-hardware",
                need_break="yes",
                category_layer_id="10003",
                parent_id="1300180570080055297"
            )
        ]
        request.body = listBodybody
        response = client.batch_create_ipd_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchCreateIpdIssuesRequest{}
    request.ProjectId = "{project_id}"
    titleBody:= "Child work item 01."
    descriptionBody:= "<p>[Requirement background]</p><p><br></p><p>[Requirement value]</
p><p><br></p><p>[Requirement details]</p>"
    statusBody:= "Start"
    domainIdBody:= "1250495940590870528"
    priorityBody:= "High."
    categoryBody:= "SR"
    assigneeBody:= "a360371833bf4c558f796fd707b44daf"
    planPiBody:= ""
    planIterationBody:= ""
    planStartDateBody:= int64()
    planEndDateBody:= int64(1780761600000)
    workloadManDayBody:= int32(11.0)
    businessDomainBody:= "soft-hardware"
    needBreakBody:= "yes"
    categoryLayerIdBody:= "10003"
    parentIdBody:= "1300180570080055297"
    titleBody1:= "Child SR work item 01."
    descriptionBody1:= "<p>[Requirement background]</p><p><br></p><p>[Requirement value]</
p><p><br></p><p>[Requirement details]</p>"
    statusBody1:= "Start"
    domainIdBody1:= "1250495940590870528"
    priorityBody1:= "High."
    categoryBody1:= "SR"
    assigneeBody1:= "a360371833bf4c558f796fd707b44daf"
    planPiBody1:= ""
    planIterationBody1:= ""
    planStartDateBody1:= int64()
    planEndDateBody1:= int64(1782662400000)
    workloadManDayBody1:= int32(11.0)
    businessDomainBody1:= "soft-hardware"
    needBreakBody1:= "yes"
    categoryLayerIdBody1:= "10003"
    parentIdBody1:= "1300180570080055297"
    var listBodybody = []model.CreateIpdProjectIssueParam{
        {
            Title: &titleBody,
            Description: &descriptionBody,
            Status: &statusBody,
            DomainId: &domainIdBody,
            Priority: &priorityBody,
            Category: &categoryBody,
            Assignee: &assigneeBody,
            PlanPi: &planPiBody,
            PlanIteration: &planIterationBody,
            PlanStartDate: &planStartDateBody,
            PlanEndDate: &planEndDateBody,
            WorkloadManDay: &workloadManDayBody,
            BusinessDomain: &businessDomainBody,
            NeedBreak: &needBreakBody,
            CategoryLayerId: &categoryLayerIdBody,
            ParentId: &parentIdBody,
        },
        {
            Title: &titleBody1,
            Description: &descriptionBody1,
            Status: &statusBody1,
            DomainId: &domainIdBody1,
            Priority: &priorityBody1,
            Category: &categoryBody1,
            Assignee: &assigneeBody1,
            PlanPi: &planPiBody1,
            PlanIteration: &planIterationBody1,
```

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```
            PlanStartDate: &planStartDateBody1,
            PlanEndDate: &planEndDateBody1,
            WorkloadManDay: &workloadManDayBody1,
            BusinessDomain: &businessDomainBody1,
            NeedBreak: &needBreakBody1,
            CategoryLayerId: &categoryLayerIdBody1,
            ParentId: &parentIdBody1,
        },
    }
    request.Body = &listBodybody
    response, err := client.BatchCreateIpdIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Work items are batch created successfully.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.13.13 Batch Deleting IPD Project Work Items

Function

This API is used to batch delete IPD project work items. The deletion operation sets the work item status to "Discarded". It supports deleting multiple work items in a single request. The response lists the IDs of successfully deleted, failed-to-delete, and non-deletable work items.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

DELETE /v1/ipdprojectservice/projects/{project_id}/issues/batch-delete

Table 4-984 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character unique project ID, which uniquely identifies a project. It can be obtained by calling the **Listing Projects** API. The value of the **id** field in the response body is the project ID. **Constraints** N/A **Range** 32 characters. **Default Value** N/A

Request Parameters

Table 4-985 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

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Table 4-986 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	**Definition** ID list of work items to be batch deleted. **Constraints** • A maximum of 50 work items can be deleted per request. • The work item ID is a numeric string of 18 to 19 characters.

Response Parameters

Status code: 200

Table 4-987 Response body parameters

Parameter	Type	Description
status	String	**Definition** API call status. **Range** • **success**: Work items are batch deleted. • **error**: Work items fail to be batch deleted.
message	String	**Definition** Description of the API call result. The failure cause is provided when the call fails. **Range** N/A
result	Array of **BatchDeleteIssueResult** objects	**Definition** Result list of the batch deletion, including the success, failure, and non-deletable work item tree information for each project. **Range** N/A

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Table 4-988 BatchDeleteIssueResult

Parameter	Type	Description
success	Array of **DeletedIssueInfo** objects	**Definition** List of details of successfully deleted work items. **Range** N/A
failed	Array of strings	**Definition** ID list of work items that failed to be deleted. **Range** N/A
undeleteIssueTrees	Array of strings	**Definition** List of IDs of work items that cannot be deleted. These work items cannot be directly deleted due to service rule restrictions. **Range** N/A
success_num	Integer	**Definition** Number of work items that were successfully deleted. **Range** 0–50
fail_num	Integer	**Definition** Number of work items that failed to be deleted. **Range** 0–50

Table 4-989 DeletedIssueInfo

Parameter	Type	Description
id	String	**Definition** Unique ID of the work item. **Range** A numeric string of 18 to 19 characters.

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Parameter	Type	Description
state	String	**Definition** Current work item status description. **Range** Discarded.
plan_pi	String	**Definition** Release plan to which the work item belongs. **Range** N/A
plan_iteration	String	**Definition** Sprint to which the work item belongs. **Range** N/A
modified_by	String	**Definition** Last modifier ID. **Range** A string of 32 characters.
modified_date	String	**Definition** Last modification time of the work item, in UTC timestamp format. **Range** N/A
sum_workload_man_day	String	**Definition** Total workload of the work item (person-days). **Range** N/A
cascade_delete	String	**Definition** Cascading deletion mode. **Range** • **none**: Cascading deletion is not performed. • **all**: All associated data is deleted in cascading mode.

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Parameter	Type	Description
operation_id	String	**Definition** Operation sequence number, unique identifier of each deletion operation. **Range** UUID string of 36 characters.

Status code: 400

Table 4-990 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Delete the work item with ID **1304481492646006784** under project **8a5cc89982a44f53bdd55a050dfffa6f**.

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/8a5cc89982a44f53bdd55a050dfffa6f/issues/batch-delete

[ "1304481492646006784" ]
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "success",
  "result" : [ {
    "success" : [ {
      "sum_workload_man_day" : "",
      "plan_pi" : "",
      "cascade_delete" : "none",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "operation_id" : "ca01c19b-37e1-4717-80c4-c0c7a1cbccc0",
      "state" : "Discarded.",
      "id" : "1304481492646006784",
      "modified_date" : "1788942748392",
```

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```
    "plan_iteration" : ""
   } ],
   "failed" : [ ],
   "undeleteIssueTrees" : [ ],
   "success_num" : 1,
   "fail_num" : 0
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Delete the work item with ID **1304481492646006784** under project **8a5cc89982a44f53bdd55a050dfffa6f**.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchDeleteIpdIssueSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteIpdIssueRequest request = new BatchDeleteIpdIssueRequest();
        request.withProjectId("{project_id}");
        List<String> listbodyBody = new ArrayList<>();
        listbodyBody.add("1304481492646006784");
        request.withBody(listbodyBody);
        try {
            BatchDeleteIpdIssueResponse response = client.batchDeleteIpdIssue(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
```

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```
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Delete the work item with ID **1304481492646006784** under project **8a5cc89982a44f53bdd55a050dfffa6f**.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeleteIpdIssueRequest()
        request.project_id = "{project_id}"
        listBodybody = [
            "1304481492646006784"
        ]
        request.body = listBodybody
        response = client.batch_delete_ipd_issue(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Delete the work item with ID **1304481492646006784** under project **8a5cc89982a44f53bdd55a050dfffa6f**.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
```

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```
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchDeleteIpdIssueRequest{}
    request.ProjectId = "{project_id}"
    var listBodybody = []string{
        "1304481492646006784",
    }
    request.Body = &listBodybody
    response, err := client.BatchDeleteIpdIssue(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Work items are batch deleted successfully.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

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Error Codes

See **Error Codes**.

4.13.14 Querying the Associated Items of a Work Item

Function

This API is used to query all associations (including parent-child relationships, upstream and downstream collaboration, and common associations) of a work item based on the project ID and work item ID. Pagination query, relationship field filtering, and cross-project association query are supported.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}/associated-item

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Table 4-991 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-992 Query Parameters

Parameter	Mandatory	Type	Description
issue_type	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** N/A **Default Value** N/A
domain_id	No	String	**Definition** Project space ID, which can be obtained by calling the API for **querying the IPD project list**. The value of **domain_id** in the response body is the project space ID. **Constraints** N/A **Range** N/A **Default Value** N/A
target_project_id	No	String	**Definition** 32-character UUID of the target project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the IPD project list**. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
link_field_code	No	String	**Definition** Code of the associated field. **Constraints** N/A **Range** N/A **Default Value** N/A
page_no	No	String	**Definition** Current page. **Constraints** N/A **Range** N/A **Default Value** 1
page_size	No	String	**Definition** Page size. **Constraints** N/A **Range** N/A **Default Value** 100

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Request Parameters

Table 4-993 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-994 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Information. **Range** N/A
result	**IssueListResult** object	**Definition** Result data.

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Table 4-995 IssueListResult

Parameter	Type	Description
issues	Array of **IssueVO** objects	**Definition** Work item list. **Range** N/A
total	Integer	**Definition** Total number of work items that meet the filter criteria. **Range** N/A

Table 4-996 IssueVO

Parameter	Type	Description
sys_analysis_conclusion	String	**Definition** Analysis conclusion, which is filled during RR acceptance. **Range** N/A
sys_remark	String	**Definition** Remarks. This field is filled during RR submission for acceptance. **Range** N/A
promised	**OptionVO** object	**Definition** Promised or not. This field is filled during RR acceptance. **Range** N/A
type	String	**Definition** Work item type. **Range** • **requirement** (R&D requirement) • **raw requirement** • **bug** • **task** **feature**

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Parameter	Type	Description
belong_inside	String	**Definition** Whether a work item is submitted across projects. **Range** • **1**: submitted across projects • **0**: submitted within a project
src_domain	**DomainVO** object	**Definition** ID of the project space where the work item is created. **Range** N/A
domain_id	**DomainVO** object	**Definition** ID of the project space to which the work item belongs. **Range** N/A
send_from	String	**Definition** ID of the raw requirement's upstream requirement. **Range** N/A
number	String	**Definition** Work item ID, which consists of the work item type, year, month, day, and six random digits. For example, an IR created on September 30, 2025 may be numbered **RR20250930982833**. **Range** N/A
send_to	String	**Definition** ID of the raw requirement's downstream requirement. **Range** N/A
path	String	**Definition** Path between the parent and child work items. **Range** N/A

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Parameter	Type	Description
workload_man_day	String	**Definition** Planned workloads of a work item. **Range** N/A
sys_check_conclusion	String	**Definition** Acceptance conclusion. This field is filled during RR acceptance. **Range** N/A
id	String	**Definition** Unique ID of a work item. **Range** N/A
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
stay_days	Integer	**Definition** Number of days that a work item stays in the current status. **Range** N/A
assigned_cc	Array of **UserVO** objects	**Definition** Cc recipient. **Range** N/A
submit_time	String	**Definition** Submission time of a work item. It is the time when the work item enters the workflow, rather than the creation time. **Range** N/A

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Parameter	Type	Description
workitem2label	Array of **WorkItemLabelVO** objects	**Definition** Work item label. **Range** N/A
sys_return_conclusion	String	**Definition** Reason for return. This field is filled when an RR/bug is returned. **Range** N/A
close_time	String	**Definition** Completion time of a work item. **Range** N/A
priority	**OptionVO** object	**Definition** Priority. **Range** • Low • Medium • High
modified_date	String	**Definition** Last modification time of a work item. **Range** N/A
created_by	**UserVO** object	**Definition** Work item creator. **Range** N/A
break_status	**OptionVO** object	**Definition** Breakdown status. **Range** N/A

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Parameter	Type	Description
status_modified_date	String	**Definition** Time when the work item was last transferred, which can be used to calculate the stay days. The value is a UNIX timestamp in milliseconds. **Range** N/A
expect_delivery_time	String	**Definition** Expected completion time. The value is a UNIX timestamp in milliseconds. **Range** N/A
parent_id	String	**Definition** Parent work item ID of a work item. **Range** N/A
assignee	**UserVO** object	**Definition** Owner. **Range** N/A
region	String	**Definition** Domain of the tenant to which the work item belongs. **Range** N/A
status	**AlmStatus** object	**Definition** Work item status. **Range** N/A
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. **Range** N/A
plan_pi	**PlanVO** object	**Definition** Release to which a work item belongs. **Range** N/A

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Parameter	Type	Description
link	String	**Definition** Relationship field of the associated work item. Use commas (,) to separate multiple values. **Range** N/A
description	String	**Definition** Work item description. A maximum of 500,000 characters are supported. **Range** N/A
is_suspended	**OptionVO** object	**Definition** Suspended or not. **Range** N/A
change_status	**OptionVO** object	**Definition** Change review status of a work item. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
sum_workload_man_day	String	**Definition** Actual workloads of a work item. **Range** N/A
sys_close_reason	String	**Definition** Reason for closing a work item. **Range** N/A
sys_resubmit_reason	String	**Definition** Reason for resubmission, which is used when resubmitting a returned RR/bug. **Range** N/A

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Parameter	Type	Description
plan_end_date	String	**Definition** Planned completion time of a work item. **Range** N/A
rr2ir	String	**Definition** ID of the child IR of an RR. Use commas (,) to separate multiple values. **Range** N/A
category_layer_id	String	**Definition** Work item type level ID. **Range** N/A
submitted_by	Array of **UserVO** objects	**Definition** Work item submitter. **Range** N/A
rr2us	String	**Definition** ID of the child US of an RR. Use commas (,) to separate multiple values. **Range** N/A
sys_no_develop_reason	String	**Definition** Reason why no development is requirement for the work item. **Range** N/A
plan_iteration	**PlanVO** object	**Definition** Sprint to which the work item belongs. **Range** N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition** Reason for return. It is usually used when returning an RR/bug. **Range** N/A
cascade_delete	String	**Definition** Flag indicating whether to perform cascading deletion. **Range** N/A
recipient	Array of **UserVO** objects	**Definition** Receiver. It is usually used for RRs. **Range** N/A
modified_by	Array of **UserVO** objects	**Definition** Last modifier of a work item. **Range** N/A
created_date	String	**Definition** Creation time of a work item. **Range** N/A
category	String	**Definition** Work item type. **Range** • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
collaborative_status	String	**Definition** Collaboration status of an R&D requirement. **Range** N/A

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Parameter	Type	Description
project	**DomainVO** object	**Definition** Project to which the work item belongs. **Range** N/A
child_issues	Map<String,**IssueVO**>	**Definition** Child work item list. **Range** N/A
activate_times	Integer	**Definition** Number of activation times. The value is automatically assigned when the bug is activated. **Range** N/A
baseline	**OptionVO** object	**Definition** Work item baseline status. **Range** N/A

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Parameter	Type	Description
business_domain	OptionVO object	**Definition** Domain of a work item. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
children	String	**Definition** ID of a child work item. Use commas (,) to separate multiple values. **Range** N/A
collaborative_history	String	**Definition** Change history of a collaborative requirement's status. The value is a JSON string. **Range** N/A

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Parameter	Type	Description
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A
convolution_actual_hours	String	**Definition** Actual roll-up workloads, summed from the actual workloads of all the child and collaborative work items. **Range** N/A
convolution_plan_hours	String	**Definition** Planned roll-up workloads, summed from the planned workloads of all the child and collaborative work items. **Range** N/A
develop_owner	String	**Definition** Development owner. This field is usually used for nodes in the developing status. **Range** N/A
done_ratio	**OptionVO** object	**Definition** Progress. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. **Range** N/A
feature2ir	String	**Definition** ID of the child IR of an SF. Use commas (,) to separate multiple values. **Range** N/A

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Parameter	Type	Description
feature_set	**OptionVO** object	**Definition** Feature set to which the SF belongs. **Range** N/A
found_env	**OptionVO** object	**Definition** Environment. **Range** N/A
found_iteration	**PlanVO** object	**Definition** Sprint. **Range** N/A
found_pi	**PlanVO** object	**Definition** Release. **Range** N/A
function_scene	String	**Definition** Function scenario. **Range** N/A
ir2feature	String	**Definition** ID of the SF associated with an IR. An IR can be associated with only one SF. **Range** N/A
ir2rr	String	**Definition** ID of the parent RR associated with an IR. Use commas (,) to separate multiple values. **Range** N/A
issue_opinion_id	String	**Definition** ID of the decision comment associated with a work item. **Range** N/A

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Parameter	Type	Description
issue_review_id	String	**Definition** ID of the review comment associated with a work item. **Range** N/A
module	**OptionVO** object	**Definition** Module. **Range** N/A
need_break	**OptionVO** object	**Definition** Whether work item breakdown is required. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
need_develop	**OptionVO** object	**Definition** Whether development is required. **Range** N/A
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** N/A
no_develop_reason	String	**Definition** Reason for no development required. **Range** N/A
order	Integer	**Definition** Priority order. **Range** 1–100
plan_dev_end_date	String	**Definition** Planned development end time. This field is usually used for nodes in the developing status. The value is a UNIX timestamp in milliseconds. **Range** N/A

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Parameter	Type	Description
plan_processing_end_date	String	**Definition** Planned end time of processing. This field is usually used for in-progress nodes. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_researchanddevelop_end_date	String	**Definition** Planned R&D end time. This field is usually used for nodes in the R&D status. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_test_end_date	String	**Definition** Planned test end time. This field is usually used for nodes in the testing status. The value is a UNIX timestamp in milliseconds. **Range** N/A
position_float	String	**Definition** Initial position of a work item in the list. **Range** N/A
processing_owner	String	**Definition** Owner for in-progress nodes. This field is usually used for in-progress nodes. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** N/A

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Parameter	Type	Description
regression_failure_number	Integer	**Definition** Number of times that regression failed. This field is automatically assigned when the bug test fails. **Range** N/A
related_network_security	**OptionVO** object	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
repair_solution	String	**Definition** Fix solution. This field is usually used for bugs. **Range** N/A
researchanddevelop_owner	String	**Definition** R&D owner. This field is usually used for nodes in the R&D status. **Range** N/A
severity	**OptionVO** object	**Definition** Severity. **Range** N/A
sys_activation_reason	String	**Definition** Severity. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is used when the bug does not need to be fixed. **Range** N/A

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Parameter	Type	Description
test_failures_times	Integer	**Definition** Number of times that the test failed. **Range** N/A
test_owner	String	**Definition** Test owner. This field is usually used for nodes in the testing status. **Range** N/A
test_report	String	**Definition** Test report. **Range** N/A
val_feature	**OptionVO** object	**Definition** Value feature. **Range** N/A
workitem2ganttchart	String	**Definition** ID of the Gantt chart associated with a work item. **Range** N/A
workitem2mindmap	String	**Definition** ID of the mind map associated with a work item. **Range** N/A

Table 4-997 WorkItemLabelVO

Parameter	Type	Description
id	String	**Definition** Label ID. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
category	String	**Definition** Object type. **Range** **Label**
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**

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Parameter	Type	Description
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue
title	String	**Definition** Label title. **Range** 1 to 30 characters.
type	String	**Definition** Data type of the current object. **Range** **label**

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Parameter	Type	Description
state	String	**Definition** Lifecycle of a label. **Range** **In use**: The label is normal and can be used. **Discarded**: The label has been deleted and cannot be used. **Deleted**: The project to which the label belongs has been deleted and the label cannot be used.
modified_by	String	**Definition** Last modifier. **Range** N/A

Table 4-998 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Table 4-999 AlmStatus

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A

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Parameter	Type	Description
belonging	String	**Definition** Work item status. **Range** **START**: **To Do** state, such as **Initial** or **Analyzing**. **IN_PROGRESS**: **Doing** state, such as **Fixing**, **Testing**, or **In R&D**. **END**: **Done** state, such as **Closed** or **Completed**.
space_id	String	**Definition** ID of the project space to which the status belongs. **Range** N/A
name	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Status code. **Range** N/A
definition_type	String	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. **Range** N/A

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Parameter	Type	Description
belong_definition_type	Integer	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. It is different from **definition_type**. If the definition level is system-level or tenant-defined, a copy of metadata is copied to the project space. **Range** N/A
display_value	String	**Definition** Status name, which is the same as the value of **name**. **Range** N/A
position	Integer	**Definition** Position sequence. **Range** N/A
displayable	Integer	**Definition** Display or not. **Range** N/A
editable	Integer	**Definition** Editable or not. **Range** N/A
deletable	Integer	**Definition** Deletable or not. **Range** N/A
mutable	Integer	**Definition** Whether the status value is fixed. **Range** N/A

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Parameter	Type	Description
title_py	String	**Definition** Initial letters of a title. **Range** N/A
created_by	String	**Definition** User ID of the creator. **Range** N/A
created_date	Integer	**Definition** Creation time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_date	Integer	**Definition** Last modification time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_by	String	**Definition** ID of the last modifier. **Range** N/A
linkage_node_fields	Boolean	**Definition** Whether to add the node owner/end time in the workflow configuration. **Range** **true**: The node owner/end time can be added to the status flow node. **false**: The node owner/end time cannot be added to the status flow node.

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Table 4-1000 DomainVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a project space. **Range** N/A
name	String	**Definition** Project space name. **Range** N/A
title	String	**Definition** Project space name. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project space. **Range** N/A
parent_id	String	**Definition** Parent project space ID of the project space, which is used only in programs. **Range** N/A
category	String	**Definition** Project space type. **Range** • **Project** • **Group**
created_by	String	**Definition** ID of the project space creator. **Range** N/A
model_id	String	**Definition** Model ID corresponding to the project space. **Range** • **10001**: system device • **10002**: standalone software

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Table 4-1001 PlanVO

Parameter	Type	Description
id	String	**Definition**: ID of a release, sprint, or milestone. **Value range**: N/A
title	String	**Definition**: Title. **Options**: N/A
category	String	**Definition**: Type. The value is of the enumerated type. **Value range**: **PI**: release **Iteration**: sprint **PlanMilestone**: milestone
description	String	**Definition**: Description **Options**: N/A
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.

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Parameter	Type	Description
status	String	**Definition**: Release/Sprint status. The value is of the enumerated type. **Value range**: **planned**: not started **going**: ongoing **ended**
children	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	String	**Definition** Planned start time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
plan_end_date	String	**Definition** Planned completion time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
created_date	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A

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Parameter	Type	Description
parent_id	String	**Definition** Parent work item ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** N/A
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Table 4-1002 OptionVO

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A

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Parameter	Type	Description
display_value	String	**Definition** Option name. **Range** N/A
value	String	**Definition** Unique ID of an option. The ID and value of a custom option are the same. **Range** N/A
code	String	**Definition** Option code. **Range** N/A
value_py	String	**Definition** Initial letter of the Chinese pinyin of the option name. **Range** N/A
sequence	Integer	**Definition** Option's position in the list. **Range** N/A
level	Integer	**Definition** Hierarchical depth (**1**, **2**, **3**, or **4**) of an option. For single-choice and multi-choice lists, the value is **1**. **Range** **1**: first level. Options in both single-choice and multi-choice lists belong to the first level. **2**: second level. **3**: third level. **4**: fourth level.
domain_id	String	**Definition** ID of the project space to which the option belongs. **Range** N/A

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Parameter	Type	Description
belong_definition_type	String	**Definition** Definition level of the option. **1**, **2**, and **3** indicate the system level, **4** indicates the tenant-defined level, and **5** indicates the project-defined level. **Range** **1**: system-preset option. **2**: system-preset option. **3**: system-preset option. **4**: tenant-defined option. **5**: project-defined option.

Status code: 400

Table 4-1003 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Assume that the project ID is **26f251d688044d6ca53f7b1b8829d168** and the work item ID is **1211022056590450688**. Query the associated items of the work item.

```
POST https://{endpoint}/v2/ipdprojectservice/projects/26f251d688044d6ca53f7b1b8829d168/issues/1211022056590450688/associated-item?issue_type=IR
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : {
```

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```
  "total" : 1,
  "data" : [ {
    "category_layer_id" : "10004",
    "link" : "1211022056590450688",
    "title" : "222",
    "priority" : {
      "id" : "1210644901842948117",
      "display_value" : "Medium",
      "value" : "Medium",
      "code" : "Medium",
      "value_py" : "2",
      "sequence" : 2,
      "level" : 1,
      "domain_id" : "1210644901016670209",
      "belong_definition_type" : "2"
    },
    "domain_id" : {
      "id" : "1210644901016670209",
      "name" : "IPD-system device-111123",
      "title" : "IPD-system device-111123",
      "project_id" : "26f251d688044d6ca53f7b1b8829d168",
      "category" : "Group",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "model_id" : "10001",
      "children" : [ ],
      "project_template_id" : "10001",
      "category_template_id" : "10001",
      "feature_template_id" : "10001",
      "is_managed_by_tenant" : false
    },
    "number" : "TASK20251230866467",
    "setup" : true,
    "id" : "1212785531721388033",
    "assignee" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "fortest1",
      "role_id" : "f0eaf447ad7540049f332cb75eaa777c,c172713f4c77465e89f1c619f894881c",
      "role_name" : "Project admin,Project manager",
      "role_alias_name" : "Project manager,Project admin",
      "role_code" : "Project manager,project_admin"
    },
    "category" : "Task",
    "collaborative_status" : [ ],
    "status" : {
      "id" : "1210644901859725331",
      "belonging" : "START",
      "name" : "Initial",
      "code" : "Start",
      "definition_type" : "5",
      "belong_definition_type" : 3,
      "display_value" : "Initial",
      "linkage_node_fields" : false
    }
  } ]
 }
}
```


Status code: 400


```
{
  "error_code" : "PM.02176813",
  "error_msg" : "No permission."
}
```


SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class QueryIssueAssociatedItemSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        QueryIssueAssociatedItemRequest request = new QueryIssueAssociatedItemRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        try {
            QueryIssueAssociatedItemResponse response = client.queryIssueAssociatedItem(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = QueryIssueAssociatedItemRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        response = client.query_issue_associated_item(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.QueryIssueAssociatedItemRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
```

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```
    response, err := client.QueryIssueAssociatedItem(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to a successful request for querying associated items of a work item
400	Response to a failed request for querying associated items of a work item

Error Codes

See **Error Codes**.

4.13.15 Associating/Disassociating Work Items

Function

You can dynamically associate or cancel the parent-child relationship and other associations between work items. You can specify whether to associate or cancel the association based on different parameters, or specify the association type, for example, associating with a parent or child work item or another work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}/associated-item

Table 4-1004 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-1005 Query Parameters

Parameter	Mandatory	Type	Description
dst_domain_id	Yes	String	**Definition** 32-character UUID of the target project, which must be unique. Obtain the value by calling the **Querying the IPD Project List** API. The value of **id** in the response message body is the project ID. In non-cross-project scenarios, the value is the same as that of **project_id** in the request path. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

Table 4-1006 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

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Table 4-1007 Request body parameters

Parameter	Mandatory	Type	Description
associated_ids	Yes	String	**Definition** Associated work item ID. Use commas (,) to separate multiple IDs. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** When **link_field_code** is **link**, a maximum of 500 work item IDs can be associated. In other scenarios, a maximum of 50 work item IDs can be associated. **Range** N/A **Default Value** N/A
operation_flag	Yes	Integer	**Definition** Operation type flag. **Constraints** N/A **Range** • **0**: associate • **1**: disassociate **Default Value** N/A

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Parameter	Mandatory	Type	Description
associate_issue_type	Yes	String	**Definition** Associated work item type code. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

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Parameter	Mandatory	Type	Description
source_issue_type	Yes	String	**Definition** Current work item type code. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A
is_replace	No	Boolean	**Definition** Whether to use the replacement mode. The default value is **false**, indicating that associated items are added. If the value is **true**, the original associated items will be deleted and replaced with the work items associated this time. **Constraints** N/A **Range** • **false** (non-replacement mode) • **true** (replacement mode) **Default Value** false

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Parameter	Mandatory	Type	Description
link_field_code	No	String	**Definition** Code of the associated field. **Constraints** N/A **Range** • **link**: associated work item • **us2rr**: parent work item (RR) associated with a US • **rr2us**: child work item (US) associated with an RR • **ir2rr**: parent work item (RR) associated with an IR • **rr2ir**: child work item (IR) associated with an RR • **parent_id**: parent work item • **ir2feature**: parent feature • **feature2ir**: child work item (IR) associated with an SF **Default Value** link

Response Parameters

Status code: 200

Table 4-1008 Response body parameters

Parameter	Type	Description
[items]	Array of **AssociateIssues-ResponseV2** objects	Association/Disassociation response objects

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Table 4-1009 AssociateIssuesResponseV2

Parameter	Type	Description
status	String	**Definition** Response status. **Range** **success**: The work item association is successful. **error**: The work item association failed.
message	String	**Definition** Association failure cause. **Range** N/A
result	Map<String,Array<**AssociateRespDetail**>>	**Definition** Response result of associating a work item. **Range** N/A

Table 4-1010 AssociateRespDetail

Parameter	Type	Description
issue_id	String	**Definition** Associated work item ID. Use commas (,) to separate multiple IDs. **Range** N/A
fail_msg	String	**Definition** Failure cause. **Range** N/A
operation_flag	Integer	**Definition** Operation type flag. **Range** • **0**: associate • **1**: disassociate

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Parameter	Type	Description
modified_date	Long	**Definition** Modification date. **Range** N/A
modified_by	String	**Definition** Modifier. **Range** N/A

Status code: 400

Table 4-1011 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Assume that the project ID is **26f251d688044d6ca53f7b1b8829d168**, the work item ID is **1211022056590450688**, and the work item type is **IR**. Associate the work item with the task work item whose ID is **1210999503448743936**.

```
PUT https://{endpoint}/v2/ipdprojectservice/projects/26f251d688044d6ca53f7b1b8829d168/issues/
1211022056590450688/associated-item?dst_domain_id=26f251d688044d6ca53f7b1b8829d168

{
  "associated_ids" : "1210999503448743936",
  "operation_flag" : 0,
  "associate_issue_type" : "Task",
  "source_issue_type" : "IR"
}
```

Example Responses

Status code: 200

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```
{
  "status" : "success",
  "message" : "",
  "result" : {
    "fail" : [ ],
    "success" : [ {
      "issue_id" : "1210999503448743936",
      "operation_flag" : 0,
      "modified_date" : "1767085429225",
      "modified_by" : "a360371833bf4c558f796fd707b44daf"
    } ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02176410",
  "error_msg" : "The associated work item does not exist."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Assume that the project ID is **26f251d688044d6ca53f7b1b8829d168**, the work item ID is **1211022056590450688**, and the work item type is **IR**. Associate the work item with the task work item whose ID is **1210999503448743936**.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class AssociateIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        AssociateIssuesRequest request = new AssociateIssuesRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        IssueAssociateVO body = new IssueAssociateVO();
        body.withSourceIssueType("IR");
```

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```
        body.withAssociateIssueType("Task");
        body.withOperationFlag(0);
        body.withAssociatedIds("1210999503448743936");
        request.withBody(body);
        try {
            AssociateIssuesResponse response = client.associateIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Assume that the project ID is **26f251d688044d6ca53f7b1b8829d168**, the work item ID is **1211022056590450688**, and the work item type is **IR**. Associate the work item with the task work item whose ID is **1210999503448743936**.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = AssociateIssuesRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.body = IssueAssociateVO(
            source_issue_type="IR",
            associate_issue_type="Task",
            operation_flag=0,
            associated_ids="1210999503448743936"
        )
        response = client.associate_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

Assume that the project ID is **26f251d688044d6ca53f7b1b8829d168**, the work item ID is **1211022056590450688**, and the work item type is **IR**. Associate the work item with the task work item whose ID is **1210999503448743936**.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.AssociateIssuesRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    request.Body = &model.IssueAssociateVo{
        SourceIssueType: "IR",
        AssociateIssueType: "Task",
        OperationFlag: int32(0),
        AssociatedIds: "1210999503448743936",
    }
    response, err := client.AssociateIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to a successful request for associating/disassociating work items
400	Response to a failed request for associating/disassociating work items

Error Codes

See **Error Codes**.

4.14 IPD Statistics Overview

4.14.1 Obtaining Statistics Panel Data

Function

This API is used to obtain the requirement/bug statistic data. The data will be delayed for 5 to 10 minutes.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/statistic/dashboard

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Table 4-1012 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1013 Query Parameters

Parameter	Mandatory	Type	Description
classification	Yes	String	**Definition** Statistics type. **Constraints** N/A **Range** • **requirement**: Query requirement statistics. • **bug**: Query bug statistics. **Default Value** N/A

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Request Parameters

Table 4-1014 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Table 4-1015 Request body parameters

Parameter	Mandatory	Type	Description
plan	No	**PlanFilter** object	**Definition** Release plan filter criteria. **Constraints** N/A
created_date	No	**DateFilter** object	**Definition** Filter criteria for work item creation time. **Constraints** N/A

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Table 4-1016 PlanFilter

Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition** ID of a release plan when the statistics are collected by sprint plan. You can query the release plan ID by calling the API for **querying the release/sprint plan list**. The **id** in **PlanVO** in the returned parameters is the release plan ID. **Constraints** A string of 18 to 19 digits. **Range** N/A **Default Value** N/A
plan_iteration	No	String	**Definition** ID of the sprint plan when the statistics are collected by sprint plan. **Constraints** A string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Table 4-1017 DateFilter

Parameter	Mandatory	Type	Description
start_date	No	String	**Definition** The work item creation time cannot be earlier than this time. Timestamp of 00:00 on date d. **Constraints** A string of 13 to 19 digits. **Range** N/A **Default Value** N/A
end_date	No	String	**Definition** The work item creation time cannot be later than this time. The timestamp is 00:00 on the date d+1. **Constraints** A string of 13 to 19 digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1018 Response body parameters

Parameter	Type	Description
result	Array of **DashboardSimpleVO** objects	**Definition** Statistical result.
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.

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Parameter	Type	Description
message	String	**Definition** Request failure information. **Range** N/A

Table 4-1019 DashboardSimpleVO

Parameter	Type	Description
category	String	**Definition** Work item type. **Range** Multiple values are supported. Use commas (,) to separate them. • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
total	Integer	**Definition** Total number of work items. **Range** N/A
processing	Integer	**Definition** Number of work items being processed. **Range** N/A
completed	Integer	**Definition** Number of completed work items. **Range** N/A
uncompleted	Integer	**Definition** Number of uncompleted work items. **Range** N/A

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Parameter	Type	Description
expired	Integer	**Definition** Number of overdue work items. **Range** N/A
remain_di	Double	**Definition** DI of unresolved bugs. The statistical scope includes all non-closed and non-draft bugs in the project. **Range** DI = **Warning** × 0.1 + **Minor** × 1 + **Major** × 3 + **Critical** × 10
category_name	String	**Definition** Statistics panel name. **Range** N/A

Status code: 400

Table 4-1020 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Statistics on bugs in the project whose ID is a75f1c34cbf24e5fbbbc154dd823cd8e

```
POST https://{endpoint}/v1/ipdprojectservice/projects/a75f1c34cbf24e5fbbbc154dd823cd8e/statistic/dashboard?classification=bug

{ }
```

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Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "category" : "Bug",
    "total" : 2,
    "processing" : 1,
    "completed" : 0,
    "uncompleted" : 2,
    "expired" : 0,
    "remain_di" : 0.2,
    "category_name" : "Bug overview statistics."
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02175302",
  "error_msg" : "Service busy: ISSUE_SERVICE"
}
```

Status Codes

Status Code	Description
200	Statistics success response.
400	Response indicating collection failure

Error Codes

See **Error Codes**.

4.15 IPD Module Management

4.15.1 Querying the Module Tree Diagram

Function

This API is used to query the tree structure of modules under a project in pagination mode. Fuzzy search by keyword, sorting, and pagination are supported.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v1/ipdprojectservice/projects/{project_id}/modules/tree

Table 4-1021 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1022 Query Parameters

Parameter	Mandatory	Type	Description
key_word	No	String	**Definition** Module name keyword, which is used for fuzzy search. **Constraints** N/A **Range** Max. 128 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
sort	No	String	**Definition** Sorting field. By default, the creation time (descending) is used, that is, the latest creation is displayed on the top. **Constraints** N/A **Range** • **display_value**: sorted by module name • **description**: sorted by description • **assignee**: sorted by owner • **created_date**: sorted by creation time **Default Value** created_date
sort_type	No	String	**Definition** Sorting mode, which is used together with the **sort** field and takes effect only when **sort** is specified. **Constraints** **sort_type** takes effect only when **sort** is specified. **Range** • **asc**: ascending. • **desc**: descending. **Default Value** desc

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value must be a multiple of **limit**. **Range** 0–350 **Default Value** 0
limit	No	Integer	**Definition** Number of modules returned on each page. **Constraints** N/A **Range** 1 to 100 **Default Value** 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1023 Response body parameters

Parameter	Type	Description
result	ModuleListResult object	**Definition** Module tree list query result. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Response status identifier. **Range** • **success**: The module tree list is queried successfully. • **error**: The module tree list fails to be queried.
message	String	**Definition** Error message. **Range** Max. 1,024 characters.

Table 4-1024 ModuleListResult

Parameter	Type	Description
modules	Array of **ModuleEntity** objects	**Definition** Module list. Each module is a **ModuleEntity** object.
total	Integer	**Definition** Total number of modules. A maximum of 350 modules (including sub-modules) are allowed in a project. **Range** 0–350

Table 4-1025 ModuleEntity

Parameter	Type	Description
id	String	**Definition** Unique module ID. **Range** A string of 18 to 19 digits.
sequence	String	**Definition** Module sequence value, which is used for sorting. The value is a string of the **double** type. **Range** N/A

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Parameter	Type	Description
level	Integer	**Definition** Module level depth. **Range** 1–3
description	String	**Definition** Module description. **Range** Max. 10,000 characters.
created_by	String	**Definition** ID of the module creator. **Range** 32 characters.
created_time	String	**Definition** Creation time, which is a Unix timestamp (unit: millisecond). **Range** A string of 13 to 19 digits.
modified_by	String	**Definition** ID of the latest modifier of the module. **Range** 32 characters.
modified_time	String	**Definition** Last modification time of a module, which is a Unix timestamp (unit: millisecond). **Range** A string of 13 to 19 digits.
display_value	String	**Definition** Module display name. **Range** 2 to 256 characters.
path_name	String	**Definition** Complete path name of a submodule, which consists of module names at all levels separated by slashes (/). **Range** Max. 769 characters.

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Parameter	Type	Description
value	String	**Definition** Unique ID of a module. The value and ID of a custom module are the same. **Range** Max. 32 characters.
parent_id	String	**Definition** Parent module ID. **Range** A string of 18 to 19 digits.
child_modules	Array of **ModuleEntity** objects	**Definition** Submodule list. Each submodule is also a **ModuleEntity** object.
assignee	String	**Definition** Module owner ID. **Range** 32 characters.

Status code: 400

Table 4-1026 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/336ad84c67ea4783b2edc1bb5a112da0/modules/tree?offset=0&limit=20&sort_type=asc
```

Example Responses

Status code: 200

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```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "modules" : [ {
      "id" : "958663834527117312",
      "sequence" : "1.0",
      "level" : 1,
      "description" : "aaaa",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_time" : "1706492869000",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_time" : "1706492869000",
      "display_value" : "Module A",
      "path_name" : "Module A",
      "value" : "958663834527117312",
      "child_modules" : [ {
        "id" : "958663880396025857",
        "sequence" : "1.0",
        "level" : 2,
        "description" : "aaa1",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "created_time" : "1706492880000",
        "modified_by" : "a360371833bf4c558f796fd707b44daf",
        "modified_time" : "1706492880000",
        "display_value" : "Module A-1",
        "path_name" : "Module A/Module A-1",
        "value" : "958663880396025857",
        "parent_id" : "958663834527117312",
        "child_modules" : [ {
          "id" : "958663903372423168",
          "sequence" : "1.0",
          "level" : 3,
          "description" : "",
          "created_by" : "a360371833bf4c558f796fd707b44daf",
          "created_time" : "1706492885000",
          "modified_by" : "a360371833bf4c558f796fd707b44daf",
          "modified_time" : "1706492885000",
          "display_value" : "Module A-1-1",
          "path_name" : "Module A/Module A-1/Module A-1-1",
          "value" : "958663903372423168",
          "parent_id" : "958663880396025857",
          "assignee" : "a360371833bf4c558f796fd707b44daf"
        } ],
        "assignee" : "a360371833bf4c558f796fd707b44daf"
      } ],
      "assignee" : "a360371833bf4c558f796fd707b44daf"
    } ],
    "total" : 1
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "Incorrect pagination parameter."
}
```


Status Codes

Status Code	Description
200	OK
400	Error message.

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Error Codes

See **Error Codes**.

4.15.2 Creating a Module

Function

This API is used to create a module under a project. Sub-modules can be created.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/{project_id}/modules

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Table 4-1027 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1028 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition** Module description. **Constraints** N/A **Range** Max. 255 characters. **Default Value** N/A
display_value	Yes	String	**Definition** Module name. **Constraints** N/A **Range** 2 to 30 characters **Default Value** N/A

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Parameter	Mandatory	Type	Description
parent_id	No	String	**Definition** Parent module ID, which is specified when a child module is created. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
assignee	No	String	**Definition** Module owner ID. If this parameter is left blank, the project administrator is used by default. **Constraints** N/A **Range** 32 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1029 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The module is successfully created. • **error**: The module fails to be created.
message	String	**Definition** Returned message. **Range** N/A

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Parameter	Type	Description
result	**CreateModuleResultVO** object	**Definition** Response for creating a module.

Table 4-1030 CreateModuleResultVO

Parameter	Type	Description
id	String	**Definition** ID of the created module. Obtain the value of this parameter using the **Querying the Module Tree List** API. The value of **id** in the response message body is the module ID. **Range** A string of 18 to 19 digits.
created_by	String	**Definition** ID of the module creator. **Range** 32 characters.
value	String	**Definition** Unique ID of a module. The value and ID of a custom module are the same. **Range** Max. 32 characters.

Status code: 400

Table 4-1031 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

Creating a child module

```
POST https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/modules

{
  "description" : "11111222",
  "display_value" : "API-M2-P-01",
  "parent_id" : 1030206424665337900,
  "assignee" : "a360371833bf4c558f796fd707b44daf"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "1030874468408406016",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "value" : "1030874468408406016"
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Module created successfully.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.15.3 Updating a Module

Function

This API is used to update information about a specified module, including the module name, parent module, description, and owner.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v1/ipdprojectservice/projects/{project_id}/modules/{module_id}

Table 4-1032 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
module_id	Yes	String	**Definition** Unique module ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

Table 4-1033 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition** Module description. **Constraints** N/A **Range** Max. 255 characters. **Default Value** N/A
display_value	No	String	**Definition** Module name. **Constraints** N/A **Range** 2 to 30 characters **Default Value** N/A
parent_id	No	String	**Definition** Parent module ID, which is specified when the module hierarchy is updated. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
assignee	No	String	**Definition** Module owner ID. **Constraints** N/A **Range** 32 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-1034 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The module is successfully updated. • **error**: Failed to update the module.
message	String	**Definition** Returned message. **Range** N/A
result	**UpdateModuleResultVO** object	**Definition** Returned result of module update.

Table 4-1035 UpdateModuleResultVO

Parameter	Type	Description
id	String	**Definition** Updated module ID. Obtain the value of this parameter using the **Querying the Module Tree List** API. The value of **id** in the response message body is the module ID. **Range** A string of 18 to 19 digits.
modified_by	String	**Definition** ID of the latest modifier of the module. **Range** 32 characters.

Status code: 400

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Table 4-1036 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/modules/1030877439598833664

{
  "description" : "This is an updated module description.",
  "display_value" : "Updated module name",
  "parent_id" : "0987654321fedcba0987654321fedcba",
  "assignee" : "fedcba0987654321fedcba0987654321"
}
```

Example Responses

Status code: 200

None

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Module updated successfully.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.15.4 Deleting a module

Function

This API is used to delete a specified module and all its sub-modules.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/modules/{module_id}

Table 4-1037 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
module_id	Yes	String	**Definition** Unique module ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-1038 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success** • **error**
message	String	**Definition** Returned message. **Range** N/A
result	**DeleteModuleResultVO** object	**Definition** Result of deleting a module.

Table 4-1039 DeleteModuleResultVO

Parameter	Type	Description
id	String	**Definition** ID of the deleted module. **Range** A string of 18 to 19 digits.
modified_by	String	**Definition** ID of the latest modifier of the module. **Range** 32 characters.

Status code: 400

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Table 4-1040 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Deleting a Module

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/modules/1030877439598833664
```

Example Responses

Status code: 200

None

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Module deleted.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.16 IPD Configuration Management

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4.16.1 Querying the Work Item Status List

Function

This API is used to query the work item status list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/status

Table 4-1041 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1042 Query Parameters

Parameter	Mandatory	Type	Description
categories	Yes	String	**Definition** Work item type. **Constraints** 2 to 128 characters. **Range** Multiple work item types are supported, separated by commas (,), for example, **IR,SR,AR**. • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

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Request Parameters

Table 4-1043 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1044 Response body parameters

Parameter	Type	Description
result	**StatusListResult** object	**Definition** Status list.
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Error message. **Range** N/A

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Table 4-1045 StatusListResult

Parameter	Type	Description
status	Array of **StatusEntity** objects	**Definition** Status list.

Table 4-1046 StatusEntity

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Unique status ID. **Range** N/A
created_by	String	**Definition** Status creator. **Range** N/A
created_time	String	**Definition** Status creation time. **Range** N/A
modified_by	String	**Definition** Status modifier. **Range** N/A

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Parameter	Type	Description
modified_time	String	**Definition** Latest modification time of a status. **Range** N/A
category_code	Array of strings	**Definition** Work items that use the status.

Status code: 400

Table 4-1047 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/336ad84c67ea4783b2edc1bb5a112da0/status?categories=FE,IR
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "status" : [ {
      "id" : "954399210965348356",
      "belonging" : "START",
      "display_value" : "Initial",
      "code" : "Start",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_time" : "1705476103000",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_time" : "1705476103000",
      "category_code" : [ "IR", "SR" ]
    }, {
      "id" : "954399210965348363",
```

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```
  "belonging" : "START",
  "display_value" : "Analysis",
  "code" : "Analyse",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1705476103000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1705476103000",
  "category_code" : [ "Bug", "IR", "SR" ]
}, {
  "id" : "958806581085904896",
  "belonging" : "IN_PROGRESS",
  "display_value" : "openapi-test",
  "code" : "s7150727397899378688",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1706526902000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1706526902000",
  "category_code" : [ "IR" ]
}, {
  "id" : "954399210965348376",
  "belonging" : "IN_PROGRESS",
  "display_value" : "Test",
  "code" : "Test",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1705476103000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1705476103000",
  "category_code" : [ "Bug", "IR", "SR" ]
}, {
  "id" : "954399210965348369",
  "belonging" : "IN_PROGRESS",
  "display_value" : "Development",
  "code" : "Develop",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1705476103000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1705476103000",
  "category_code" : [ "IR", "SR" ]
}, {
  "id" : "954399210961154063",
  "belonging" : "IN_PROGRESS",
  "display_value" : "Confirm",
  "code" : "ToBeConfirmed",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1705476103000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1705476103000",
  "category_code" : [ "Bug" ]
}, {
  "id" : "954399210965348354",
  "belonging" : "IN_PROGRESS",
  "display_value" : "Recovery",
  "code" : "Fixed",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1705476103000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1705476103000",
  "category_code" : [ "Bug" ]
}, {
  "id" : "954399210961154057",
  "belonging" : "IN_PROGRESS",
  "display_value" : "Acceptance",
  "code" : "Checking",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_time" : "1705476103000",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_time" : "1705476103000",
  "category_code" : [ "Bug" ]
}, {
```


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```
    "id" : "954399210961154060",
    "belonging" : "END",
    "display_value" : "Closure",
    "code" : "Closed",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "Bug" ]
  }, {
    "id" : "954399210965348381",
    "belonging" : "END",
    "display_value" : "Completed",
    "code" : "Finish",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "IR", "SR" ]
  } ]
 }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.16.2 Obtaining the Model Tree Configuration

Function

This API is used to obtain the model tree configuration.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/model-config

Table 4-1048 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Request Parameters

Table 4-1049 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1050 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** N/A
result	**ModelConfigDTO** object	**Definition** Response status. **Range** N/A
message	String	**Definition** Response message. **Range** N/A

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Table 4-1051 ModelConfigDTO

Parameter	Type	Description
categories	Array of **BaseCategory** objects	**Definition** Work item property. **Range** N/A
category_layer_config	Array of **CategoryLayerDTO** objects	**Definition** Work item hierarchy. **Range** N/A
feature_page_link_template	String	**Definition** Template for the link to the work item function page. **Range** N/A

Table 4-1052 BaseCategory

Parameter	Type	Description
tenant_id	String	**Definition** Tenant ID. **Range** N/A
modified_by	String	**Definition** Modifier. **Range** N/A
modified_date	Long	**Definition** Modification time. **Range** N/A
created_by	String	**Definition** Creator. **Range** N/A

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Parameter	Type	Description
created_date	String	**Definition** Creation time. **Range** N/A
code	String	**Definition** Object type code. **Range** N/A
classification_id	Long	**Definition** Type classification ID. **Range** N/A
prefix	String	**Definition** Number prefix. **Range** N/A
domain_id	Long	**Definition** Unique ID of a project space under a tenant. **Range** N/A
icon	String	**Definition** Text value corresponding to the icon. **Range** N/A
color	String	**Definition** Color. **Range** N/A
description	String	**Definition** Description. **Range** N/A

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Parameter	Type	Description
definition_type	String	**Definition** Definition type. **Range** • **1** to **3**: system level • **4**: tenant level
type_id	Long	**Definition** Type ID. **Range** N/A

Table 4-1053 CategoryLayerDTO

Parameter	Type	Description
category	**BaseCategory** object	**Definition** Information about the object type. **Range** N/A
link_parent_field	String	**Definition** Parent class field. **Range** N/A
code	String	**Definition** Layer object type code. **Range** N/A
category_code	String	**Definition** Object type code. **Range** N/A
category_id	Long	**Definition** Object type ID. **Range** N/A

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Parameter	Type	Description
layer_type	String	**Definition** Layer type. **Range** N/A
parent_id	Long	**Definition** Parent ID. **Range** N/A
root_id	Long	**Definition** Root work item ID. **Range** N/A
position_x	Integer	**Definition** X-axis coordinate of the canvas. **Range** N/A
position_y	Integer	**Definition** Y-axis coordinate of the canvas. **Range** N/A

Status code: 400

Table 4-1054 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

Assume that the project ID is **26f251d688044d6ca53f7b1b8829d168**. Query the model tree configuration of the project.

```
GET https://{endpoint}/v1/ipdprojectservice/projects/26f251d688044d6ca53f7b1b8829d168/model-config
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "result" : {
    "categories" : [ {
      "id" : "1188444320469135361",
      "region" : "xx-xx-xx",
      "enabled" : 1,
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_date" : "1766559565636",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : "1761276806227",
      "code" : "c7380365137905545216",
      "prefix" : "ZR",
      "domain_id" : "-1",
      "icon" : "ZR",
      "color" : "#86CAFF",
      "description" : "1",
      "display_name" : "ZR",
      "definition_type" : 4,
      "type_id" : "10026"
    }, {
      "id" : "1188444430468952065",
      "region" : "xx-xx-xx",
      "enabled" : 1,
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_date" : "1761276832453",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : "1761276832453",
      "code" : "c7380365247985053696",
      "prefix" : "CCR",
      "domain_id" : "-1",
      "icon" : "CCR",
      "color" : "#6DDEBB",
      "description" : "",
      "display_name" : "CCR",
      "definition_type" : 4,
      "type_id" : "10026"
    }, {
      "id" : "1188444469958324225",
      "region" : "xx-xx-xx",
      "enabled" : 1,
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_date" : "1761276841868",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : "1761276841868",
      "code" : "c7380365287323430912",
      "prefix" : "VVR",
      "domain_id" : "-1",
      "icon" : "VVR",
      "color" : "#A6DD82",
      "description" : "",
      "display_name" : "VVR",
      "definition_type" : 4,
      "type_id" : "10026"
```


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```
}, {
  "id" : "1192859851372670977",
  "region" : "xx-xx-xx",
  "enabled" : 1,
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_date" : "1762329550831",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_date" : "1762329550831",
  "code" : "c7384780668794400768",
  "prefix" : "QY",
  "domain_id" : "-1",
  "icon" : "QY",
  "color" : "#86CAFF",
  "description" : "",
  "display_name" : "QY",
  "definition_type" : 4,
  "type_id" : "10026"
}, {
  "id" : "1192859886432858112",
  "region" : "xx-xx-xx",
  "enabled" : 1,
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_date" : "1762329559190",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_date" : "1762329559190",
  "code" : "c7384780703795867648",
  "prefix" : "WY",
  "domain_id" : "-1",
  "icon" : "WY",
  "color" : "#6DDEBB",
  "description" : "",
  "display_name" : "WY",
  "definition_type" : 4,
  "type_id" : "10026"
}, {
  "id" : "1192859911804203008",
  "region" : "xx-xx-xx",
  "enabled" : 1,
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_date" : "1762329565239",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_date" : "1762329565239",
  "code" : "c7384780729121075200",
  "prefix" : "EY",
  "domain_id" : "-1",
  "icon" : "EY",
  "color" : "#A6DD82",
  "description" : "",
  "display_name" : "EY",
  "definition_type" : 4,
  "type_id" : "10026"
}, {
  "id" : "1192859944242950144",
  "region" : "xx-xx-xx",
  "enabled" : 1,
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "modified_by" : "a360371833bf4c558f796fd707b44daf",
  "modified_date" : "1762329572973",
  "created_by" : "a360371833bf4c558f796fd707b44daf",
  "created_date" : "1762329572973",
  "code" : "c7384780761601765376",
  "prefix" : "RY",
  "domain_id" : "-1",
  "icon" : "RY",
  "color" : "#FAC20A",
  "description" : "",
```


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```
    "display_name" : "RY",
    "definition_type" : 4,
    "type_id" : "10026"
  }, {
    "id" : "1196449663501512704",
    "region" : "xx-xx-xx",
    "enabled" : 1,
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_date" : "1763185428738",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1763185428738",
    "code" : "c7388370480791121920",
    "prefix" : "QU",
    "domain_id" : "-1",
    "icon" : "QU",
    "color" : "#6DDEBB",
    "description" : "",
    "display_name" : "QU",
    "definition_type" : 4,
    "type_id" : "10026"
  }, {
    "id" : "10020",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
    "code" : "IR",
    "prefix" : "IR",
    "domain_id" : "0",
    "icon" : "IR",
    "color" : "#FFE1C7",
    "description" : "Initial requirements (IRs) are re-described accurately, with complete background, in standard format, and from the perspective of customers/markets.",
    "display_name" : "Initial requirement",
    "definition_type" : 3,
    "type_id" : "10013"
  }, {
    "id" : "10021",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
    "code" : "RR",
    "prefix" : "RR",
    "domain_id" : "0",
    "icon" : "RR",
    "color" : "#E1E8FD",
    "description" : "Raw requirements (RRs) are raw problems or requirements described from the perspective of internal and external customers. Customer requirements are a type of RRs. This type of requirement needs to be analyzed and reviewed by the RMT/RAT.",
    "display_name" : "Raw requirement",
    "definition_type" : 3,
    "type_id" : "10012"
  }, {
    "id" : "10022",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
```


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```
    "code" : "SR",
    "prefix" : "SR",
    "domain_id" : "0",
    "icon" : "SR",
    "color" : "#CFFCEE",
    "description" : "System requirements (SRs) are functional and non-functional requirements that are presented externally, can be tested, and are described from the perspective of R&D. Functional requirements are scenario-specific requirements for functions provided by the system. Non-functional requirements include requirements for system costs, global quality attributes (mainly DFX), and technical restrictions.",
    "display_name" : "System requirement",
    "definition_type" : 3,
    "type_id" : "10013"
  }, {
    "id" : "10027",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
    "code" : "Task",
    "prefix" : "TASK",
    "domain_id" : "0",
    "icon" : "Task",
    "color" : "#D8FCC0",
    "description" : "A task is an activity undertaken to achieve a specific goal. It is typically process-oriented and represents the minimum work unit in R&D and production.",
    "display_name" : "Task",
    "definition_type" : 3,
    "type_id" : "10014"
  }, {
    "id" : "10029",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
    "code" : "AR",
    "prefix" : "AR",
    "domain_id" : "0",
    "icon" : "AR",
    "color" : "#D1EBFF",
    "description" : "Allocated requirements (ARs) are functional or non-functional requirements broken down to sub-systems/modules by SRs from the perspective of deliverability based on the division of responsibilities of entry-level organizations.",
    "display_name" : "Allocated requirement",
    "definition_type" : 3,
    "type_id" : "10013"
  }, {
    "id" : "10033",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
    "code" : "Bug",
    "prefix" : "BUG",
    "domain_id" : "0",
    "icon" : "Bug",
    "color" : "#FFBCBA",
    "description" : "In project management, particularly in agile development and software project management, a bug is an error, fault, or issue in a product or system that causes it to malfunction or produce unexpected results.",
    "display_name" : "Bug",
```


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```
    "definition_type" : 3,
    "type_id" : "10015"
   }, {
    "id" : "10065",
    "region" : "0",
    "enabled" : 1,
    "tenant_id" : "0",
    "modified_by" : "system",
    "modified_date" : "1643094460",
    "created_by" : "system",
    "created_date" : "1643094460",
    "code" : "SF",
    "prefix" : "SF",
    "domain_id" : "0",
    "icon" : "SF",
    "color" : "#E7D9FF",
    "description" : "System features (SFs) describe the main selling points and highlights of a product. It
keeps iterating as the product evolves.",
    "display_name" : "System feature",
    "definition_type" : 3,
    "type_id" : "10001"
   } ],
   "category_layer_config" : [ {
    "id" : "1196425853033295873",
    "path" : "/1196425853033295873",
    "enabled" : true,
    "children" : [ {
     "id" : "1196425853033295875",
     "path" : "/1196425853033295873/1196425853033295875",
     "enabled" : true,
     "children" : [ {
      "id" : "1196425853033295878",
      "path" : "/1196425853033295873/1196425853033295875/1196425853033295878",
      "enabled" : true,
      "children" : [ ],
      "link_parent_field" : "parent_id",
      "code" : "af96edc9b0364841a9cfb51ccb6dd80b",
      "category_code" : "AR",
      "category_id" : "10029",
      "parent_id" : "1196425853033295875",
      "root_id" : "1196425853033295873",
      "position_x" : -607,
      "position_y" : 422
     } ],
     "link_parent_field" : "parent_id",
     "code" : "6cf2ef794d1443f6bb35983fdbeb6feb",
     "category_code" : "SR",
     "category_id" : "10022",
     "parent_id" : "1196425853033295873",
     "root_id" : "1196425853033295873",
     "position_x" : -607,
     "position_y" : 286
    } ],
    "link_parent_field" : "parent_id",
    "code" : "22faeb024989486191cceddf4c731bae",
    "category_code" : "IR",
    "category_id" : "10020",
    "root_id" : "1196425853033295873",
    "position_x" : -607,
    "position_y" : 150
   }, {
    "id" : "1196425853033295874",
    "path" : "/1196425853033295874",
    "enabled" : true,
    "children" : [ ],
    "link_parent_field" : "parent_id",
    "code" : "f0a3bf7b53e04a2288ad41c4d6f9d602",
    "category_code" : "RR",
    "category_id" : "10021",
```


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```
    "root_id" : "1196425853033295874",
    "position_x" : -445,
    "position_y" : 150
   }, {
    "id" : "1196425853033295876",
    "path" : "/1196425853033295876",
    "enabled" : true,
    "children" : [ {
     "id" : "1196425853033295877",
     "path" : "/1196425853033295876/1196425853033295877",
     "enabled" : true,
     "children" : [ {
      "id" : "1200897868364558337",
      "path" : "/1196425853033295876/1196425853033295877/1200897868364558337",
      "enabled" : true,
      "children" : [ {
       "id" : "1200897868364558336",
       "path" : "/
1196425853033295876/1196425853033295877/1200897868364558337/1200897868364558336",
       "enabled" : true,
       "children" : [ ],
       "link_parent_field" : "parent_id",
       "category_code" : "Task",
       "category_id" : "10027",
       "parent_id" : "1200897868364558337",
       "root_id" : "1196425853033295876",
       "position_x" : -282,
       "position_y" : 558
      } ],
      "link_parent_field" : "parent_id",
      "category_code" : "Task",
      "category_id" : "10027",
      "parent_id" : "1196425853033295877",
      "root_id" : "1196425853033295876",
      "position_x" : -282,
      "position_y" : 422
     } ],
     "link_parent_field" : "parent_id",
     "code" : "9a851a94d5fe47348c4abcc8f6506d0a",
     "category_code" : "Task",
     "category_id" : "10027",
     "parent_id" : "1196425853033295876",
     "root_id" : "1196425853033295876",
     "position_x" : -282,
     "position_y" : 286
    } ],
    "link_parent_field" : "parent_id",
    "code" : "9a851a94d5fe47348c4abcc8f6506d0a",
    "category_code" : "Task",
    "category_id" : "10027",
    "root_id" : "1196425853033295876",
    "position_x" : -282,
    "position_y" : 150
   }, {
    "id" : "1196425853033295879",
    "path" : "/1196425853033295879",
    "enabled" : true,
    "children" : [ ],
    "link_parent_field" : "parent_id",
    "code" : "2d981e00439c4799bf7088c6e9e87570",
    "category_code" : "Bug",
    "category_id" : "10033",
    "root_id" : "1196425853033295879",
    "position_x" : -135,
    "position_y" : 150
   }, {
    "id" : "1196425853033295880",
    "path" : "/1196425853033295880",
    "enabled" : true,
```

```
    "children" : [ ],
    "link_parent_field" : "parent_id",
    "code" : "6fb084e99bb648e786c1d7b59cf4197c",
    "category_code" : "SF",
    "category_id" : "10065",
    "root_id" : "1196425853033295880",
    "position_x" : 7,
    "position_y" : 150
  }, {
    "id" : "1196425853033295881",
    "path" : "/1196425853033295881",
    "enabled" : true,
    "children" : [ {
      "id" : "1196425853033295882",
      "path" : "/1196425853033295881/1196425853033295882",
      "enabled" : true,
      "children" : [ {
        "id" : "1196425853033295883",
        "path" : "/1196425853033295881/1196425853033295882/1196425853033295883",
        "enabled" : true,
        "children" : [ ],
        "link_parent_field" : "parent_id",
        "category_code" : "c7380365287323430912",
        "category_id" : "1188444469958324225",
        "parent_id" : "1196425853033295882",
        "root_id" : "1196425853033295881",
        "position_x" : 90,
        "position_y" : 422
      } ],
      "link_parent_field" : "parent_id",
      "category_code" : "c7380365247985053696",
      "category_id" : "1188444430468952065",
      "parent_id" : "1196425853033295881",
      "root_id" : "1196425853033295881",
      "position_x" : 88,
      "position_y" : 286
    }, {
      "id" : "1196449973783539712",
      "path" : "/1196425853033295881/1196449973783539712",
      "enabled" : true,
      "children" : [ ],
      "link_parent_field" : "parent_id",
      "category_code" : "c7388370480791121920",
      "category_id" : "1196449663501512704",
      "parent_id" : "1196425853033295881",
      "root_id" : "1196425853033295881",
      "position_x" : 238,
      "position_y" : 286
    } ],
    "link_parent_field" : "parent_id",
    "category_code" : "c7380365137905545216",
    "category_id" : "1188444320469135361",
    "root_id" : "1196425853033295881",
    "position_x" : 169,
    "position_y" : 150
  }, {
    "id" : "1196425853033295884",
    "path" : "/1196425853033295884",
    "enabled" : true,
    "children" : [ {
      "id" : "1196425853033295885",
      "path" : "/1196425853033295884/1196425853033295885",
      "enabled" : true,
      "children" : [ {
        "id" : "1196425853033295887",
        "path" : "/1196425853033295884/1196425853033295885/1196425853033295887",
        "enabled" : true,
        "children" : [ ],
        "link_parent_field" : "parent_id",
```

```
        "category_code" : "c7384780729121075200",
        "category_id" : "1192859911804203008",
        "parent_id" : "1196425853033295885",
        "root_id" : "1196425853033295884",
        "position_x" : 376,
        "position_y" : 422
      } ],
      "link_parent_field" : "parent_id",
      "category_code" : "c7384780703795867648",
      "category_id" : "1192859886432858112",
      "parent_id" : "1196425853033295884",
      "root_id" : "1196425853033295884",
      "position_x" : 372,
      "position_y" : 286
    } ],
    "link_parent_field" : "parent_id",
    "category_code" : "c7384780668794400768",
    "category_id" : "1192859851372670977",
    "root_id" : "1196425853033295884",
    "position_x" : 374,
    "position_y" : 150
  }, {
    "id" : "1196425853033295886",
    "path" : "/1196425853033295886",
    "enabled" : true,
    "children" : [ {
      "id" : "1196425853033295888",
      "path" : "/1196425853033295886/1196425853033295888",
      "enabled" : true,
      "children" : [ {
        "id" : "1196425853033295889",
        "path" : "/1196425853033295886/1196425853033295888/1196425853033295889",
        "enabled" : true,
        "children" : [ ],
        "link_parent_field" : "parent_id",
        "category_code" : "c7384780761601765376",
        "category_id" : "1192859944242950144",
        "parent_id" : "1196425853033295888",
        "root_id" : "1196425853033295886",
        "position_x" : 510,
        "position_y" : 422
      } ],
      "link_parent_field" : "parent_id",
      "category_code" : "c7384780729121075200",
      "category_id" : "1192859911804203008",
      "parent_id" : "1196425853033295886",
      "root_id" : "1196425853033295886",
      "position_x" : 511,
      "position_y" : 286
    } ],
    "link_parent_field" : "parent_id",
    "category_code" : "c7384780703795867648",
    "category_id" : "1192859886432858112",
    "root_id" : "1196425853033295886",
    "position_x" : 507,
    "position_y" : 150
  } ],
  "feature_page_link_template" : "https://{endpoint}/ipdproject/openapi/v1/projects/
ea7320ff143048a289add875b56b5f76/redirect-feature-link?issue_id={issue_id}"
 }
}
```


Status code: 400


```
{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}
```


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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class GetModelConfigSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        GetModelConfigRequest request = new GetModelConfigRequest();
        request.withProjectId("{project_id}");
        try {
            GetModelConfigResponse response = client.getModelConfig(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = GetModelConfigRequest()
        request.project_id = "{project_id}"
        response = client.get_model_config(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.GetModelConfigRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.GetModelConfig(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to a successful request for obtaining the model tree configuration.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.17 IPD Review Management

4.17.1 Querying the Decision-maker of a Change Object (RR/Bug)

Function

This API is used to query the decision-maker of a change object (only RR/bug is supported) and is used to create a change review (the change object is RR/bug).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/review/issues/{issue_id}/approvers

Table 4-1055 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-1056 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	Request error message.
result	**ReviewApproverListResult** object	Decision-maker list

Table 4-1057 ReviewApproverListResult

Parameter	Type	Description
data	Array of **UserEntity** objects	Decision-maker information
total	Integer	Total number of work item (RR/bug) decision-makers

Table 4-1058 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Status code: 400

Table 4-1059 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying the decision-maker of a change object

```
GET https://{endpoint}/v1/ipdprojectservice/projects/a75f1c34cbf24e5fbbbc154dd823cd8e/review/issues/1072841311153725441/approvers
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : {
    "data" : [ {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    } ],
    "total" : 1
```

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```
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.17.2 Creating a change review

Function

This API is used to create a change review. When the change object is an RR or a bug, the value of **approver** of CO is the **id** in the response body of the **Querying Change Object Decision-Makers** API.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:review:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

POST /v1/ipdprojectservice/projects/{project_id}/review

Table 4-1060 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1061 Request body parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Review type. **Constraints** **CR** only. **Range** **CR** only. **Default Value** N/A

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Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Review title. **Constraints** 1 to 256 characters. **Range** N/A **Default Value** N/A
description	No	String	**Definition** Review description. **Constraints** 1 to 50,000 characters. **Range** N/A **Default Value** N/A
need_approval	No	Boolean	**Definition** Whether the review needs to be approved by the decision-maker. **Constraints** N/A **Range** • **true**: Approval by the decision-maker is required. • **false**: Approval by the decision-maker is not required. **Default Value** true
status	Yes	**ReviewStatusEntity** object	**Definition** Review status.
cc	No	Array of **ReviewCreateUserEntity** objects	**Definition** List of CC recipients.
cos	Yes	Array of **COCreateEntity** objects	**Definition** Review object list.

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Parameter	Mandatory	Type	Description
plan_end_date	No	String	**Definition** Planned completion date. **Constraints** N/A **Range** Timestamp. **Default Value** N/A
plan_start_date	No	String	**Definition** Planned start date. **Constraints** N/A **Range** Timestamp. **Default Value** N/A

Table 4-1062 ReviewStatusEntity

Parameter	Mandatory	Type	Description
code	Yes	String	**Definition** Review status code. **Constraints** N/A **Range** • **ToBeReviewed** • **ToBeApproved** • **Committed** • **Canceled** • **ReCommitted** • **Rejected** **Default Value** N/A

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Table 4-1063 ReviewCreateUserEntity

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition** User ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value** N/A

Table 4-1064 COCreateEntity

Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition** ID of the work item associated with a change object. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** A string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
issue_number	Yes	String	**Definition** ID of the work item associated with the change object, which is automatically generated by the system. **Constraints** N/A **Range** N/A **Default Value** N/A
issue_category	Yes	String	**Definition** Work item type of the change object. **Constraints** N/A **Range** • **RR**: raw requirement • **SF**: system feature • **IR**: R&D requirement • **SR**: system requirement • **AR**: allocated requirement • **US**: user story • **Bug**: defect **Default Value** N/A

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Parameter	Mandatory	Type	Description
change_type	Yes	String	**Definition** Change type, which identifies the type of operation performed on a work item. **Constraints** N/A **Range** **Modify** **Move**: migrate **Delete** **ModifyPlan**: move it into or out of the baselined release or sprint **Default Value** N/A
before_change	Yes	String	**Definition** Change object content before modification, in JSON format. **Constraints** The value is a JSON string, including the **view** node. **Range** N/A **Default Value** N/A
after_change	Yes	String	**Definition** Change object content after modification, in JSON format. **Constraints** The value is a JSON string. It must contain the **execute** node, and the **execute** node must be in the flat **key:value** format. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
reviewer	Yes	Array of strings	**Definition** List of IDs of change object review experts. Use commas (,) to separate multiple user IDs. **Constraints** Each user ID is a 32-bit UUID. **Range** A maximum of 10 review experts are allowed. **Default Value** N/A
approver	Yes	Array of strings	**Definition** Array of change object decision-maker user IDs. For change objects of the RR/Bug type, the decision-makers need to be obtained through the **Querying Change Object Decision-Makers** API. **Constraints** Each user ID is a 32-bit UUID, and the array elements are unique. **Range** A maximum of 10 decision-makers are allowed. **Default Value** N/A
description	No	String	**Definition** Description of the change object, which describes the background and reason for the change. **Constraints** N/A **Range** Max. 50,000 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-1065 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Response message. **Range** N/A
result	**ReviewEntity** object	Review details

Table 4-1066 ReviewEntity

Parameter	Type	Description
id	String	**Definition** Review ID. **Range** N/A
number	String	**Definition** Review No. **Range** N/A
state	String	**Definition** Lifecycle of a review. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin

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Parameter	Type	Description
title	String	**Definition** Review title. **Range** N/A
category	String	**Definition** Review type. **Range** **CR** (change review), **BR** (baseline review), and **GR** (general review).
created_by	**UserEntity** object	**Definition** Review creator.
modified_by	**UserEntity** object	**Definition** Last modifier of a review.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a review.
created_time	String	**Definition** Creation timestamp of a review. **Range** N/A
modified_time	String	**Definition** Timestamp when a review was last modified. **Range** N/A
plan_end_date	String	**Definition** Timestamp of the planned completion date. **Range** N/A
plan_start_date	String	**Definition** Timestamp of the planned start date. **Range** N/A

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Parameter	Type	Description
close_time	String	**Definition** Review completion time. **Range** N/A
need_approval	String	**Definition** Whether the review requires approver approval. **Range** • **true**: Required. • **false**: Not required.
status	**StatusEntity** object	**Definition** Review status.
description	String	**Definition** Review description. **Range** N/A
closed_time	String	**Definition** Review completion time. **Range** N/A
approver	String	**Definition** Decision-maker ID. **Range** N/A
reviewer	String	**Definition** ID of a review expert. **Range** N/A
cos	Array of **COEntity** objects	**Definition** Review object list.
ccbs	Array of **CcbEntity** objects	**Definition** Approval information lists.
old_status	**StatusEntity** object	**Definition** Historical review status.

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Parameter	Type	Description
cc	Array of **UserEntity** objects	**Definition** List of CC recipients.
ccb_user	Array of **UserObject** objects	**Definition** CCB user list. **Range** N/A
ccb_opinion	String	**Definition** CCB opinion. **Range** N/A
ccb_id	String	**Definition** CCB ID. **Range** N/A
reviewer_user	Array of **UserObject** objects	**Definition** Reviewer list. **Range** N/A
processor	Array of **UserObject** objects	**Definition** Handler list. **Range** N/A
processorNickNames	String	**Definition** Handler nickname. **Range** N/A
reviewResult	**ReviewResultVO** object	**Definition** Review result statistics.
reviewResultTxt	String	**Definition** Review result text. **Range** N/A
approvedResult	**ReviewResultVO** object	**Definition** Approval result statistics.

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Parameter	Type	Description
approvedResultTxt	String	**Definition** Approval result text. **Range** N/A

Table 4-1067 COEntity

Parameter	Type	Description
after_change	String	**Definition** Change object content after change. **Range** N/A
review_complete_time	String	**Definition** Review completion time of the change object. **Range** N/A
review_phase_result	String	**Definition** Review result of the change object. **Range** • **Approved** • **Rejected** (for CRs) • **TurnBacked** (for BRs/GRs)
review_time	String	**Definition** Review time of the change object. **Range** N/A
before_change	String	**Definition** Work item content before change. **Range** N/A
category	String	**Definition** Work item type of the change object. The value is fixed to **CO**. **Range** N/A

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Parameter	Type	Description
ccb_info	**CcbEntity** object	**Definition** Actual decision-maker of the change object. **Range** N/A
ccbs	Array of **UserEntity** objects	**Definition** List of decision makers for the change object. The list contains only one element. **Range** N/A
change_type	String	**Definition** Change type. **Range** **Modify** **Move**: migrate **Delete** **ModifyPlan**: move it into or out of the baselined release or sprint
co2review	String	**Definition** ID of the review associated with a change object. **Range** N/A
created_by	String	**Definition** Creator ID of a change object. **Range** N/A
created_date	String	**Definition** Time when a change object is created. **Range** N/A
description	String	**Definition** Description of a change object. **Range** N/A

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Parameter	Type	Description
id	String	**Definition** Change object ID. **Range** N/A
issue_id	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_number	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_category	String	**Definition** Type of the work item associated with a change object. **Range** N/A
modified_by	String	**Definition** ID of the last modifier of a change object. **Range** N/A
modified_date	String	**Definition** Last modification time of a change object. **Range** N/A
opinions	Array of **UserEntity** objects	**Definition** List of change object review expert IDs (used when a change review is created). **Range** N/A

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Parameter	Type	Description
opinion_comments	Array of **ReviewOpinionEntity** objects	**Definition** Review comments on a change object. **Range** N/A
review_comments	Array of **ReviewCommentEntity** objects	**Definition** Review comments on a change object (for review update). **Range** N/A
approval_comments	Array of **ReviewCommentEntity** objects	**Definition** Decision-making comments on a change object (for decision-making update). **Range** N/A
reviewer	Array of strings	**Definition** List of change object review expert IDs. **Range** N/A
approver	Array of strings	**Definition** Array of change object decision-maker IDs. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Change object status. **Range** • **Canceled**: The review form is canceled. • **ToBeCommitted**: The review form is saved. • **ToBeReviewed**: The review form is to be reviewed. • **ToBeApproved**: The review form is to be decided. • **Approved**: The review form is approved. • **TurnBacked**: The review form is turned back. • **Rejected**: The review form is rejected. • **End**: The review form is completed. • **Passed**: The review form is passed.

Table 4-1068 CcbEntity

Parameter	Type	Description
approval_time	String	**Definition** Approval time. **Range** N/A
category	String	**Definition** Work item type. The value is fixed at **CCB**. **Range** N/A
ccb2review	String	**Definition** ID of the review associated with an approval object. **Range** N/A

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Parameter	Type	Description
co_id	String	**Definition** ID of the associated change object. **Range** N/A
id	String	**Definition** Approval object ID. **Range** N/A
owner	**UserEntity** object	**Definition** Decision-maker. **Range** N/A
approval_comments	String	**Definition** Approval comments. **Range** N/A

Table 4-1069 ReviewOpinionEntity

Parameter	Type	Description
category	String	**Definition** Review comment object type. The value is fixed at **Opinion**. **Range** N/A
co_id	String	**Definition** ID of the change object associated with the review comment object. **Range** N/A
created_by	**UserEntity** object	**Definition** Review expert who creates the review comment. **Range** N/A

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Parameter	Type	Description
created_date	String	**Definition** Review comment creation time. **Range** N/A
curr_owner	**UserEntity** object	**Definition** Current review expert. **Range** N/A
id	String	**Definition** Review comment object ID. **Range** N/A
modified_date	String	**Definition** Last modification time of a review comment. **Range** N/A
review_comments	String	**Definition** Review comment. **Range** N/A

Table 4-1070 ReviewCommentEntity

Parameter	Type	Description
id	String	**Definition** Review comment object ID. **Range** N/A
user_id	String	**Definition** Reviewer ID. **Range** N/A

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Parameter	Type	Description
other_user_id	String	**Definition** ID of the review receiver (during review transfer). **Range** N/A
result	String	**Definition** Review result. **Range** N/A
comment	String	**Definition** Review comment. **Range** N/A

Table 4-1071 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

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Table 4-1072 StatusEntity

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Unique status ID. **Range** N/A
created_by	String	**Definition** Status creator. **Range** N/A
created_time	String	**Definition** Status creation time. **Range** N/A
modified_by	String	**Definition** Status modifier. **Range** N/A
modified_time	String	**Definition** Latest modification time of a status. **Range** N/A
category_code	Array of strings	**Definition** Work items that use the status.

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Table 4-1073 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Table 4-1074 UserObject

Parameter	Type	Description
watcher	String	**Definition** Favorited or not. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A

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Parameter	Type	Description
user_num_id	String	**Definition** Digital ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
role_id	String	**Definition** Role ID. **Range** N/A
role_name	String	**Definition** Role name. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A
region	String	**Definition** Region. **Range** N/A

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Parameter	Type	Description
opinion	String	**Definition** Comments. **Range** N/A
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Owner. **Range** N/A
ccbId	String	**Definition** Decision-maker ID. **Range** N/A
has_removed	String	**Definition** Whether the user is removed from the project. **Range** N/A

Table 4-1075 ReviewResultVO

Parameter	Type	Description
approvedNum	String	**Definition** Number of items approved. **Range** N/A
rejectedNum	String	**Definition** Number of items rejected. **Range** N/A

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Parameter	Type	Description
pendingNum	String	**Definition** Number of items pending. **Range** N/A
turnBackedNum	String	**Definition** Number of items returned. **Range** N/A

Status code: 400

Table 4-1076 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Creating a change review

```
POST https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/review

{
  "title" : "21-CR-10x",
  "description" : "<p><strong>[Change Review Background]</strong></p><p>1</p><p><strong>[Change Review Value] </strong></p><p><br></p><p><strong>[Change Review Details]</strong></p>",
  "category" : "CR",
  "need_approval" : true,
  "status" : {
    "code" : "ToBeReviewed"
  },
  "cc" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf"
  } ],
  "cos" : [ {
    "issue_number" : "BUG20241209780441",
    "issue_id" : "1072968362439385089",
    "issue_category" : "Bug",
```

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```
    "change_type" : "Modify",
    "before_change" : "{\"view\":{\"description\":\"<p>[Fault Symptom]</p><p><br></p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating Engineer]</p><p><br></p><p>[Preliminary
Cause]</p>\"}}",
    "after_change" : "{\"view\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><; br></p><p>[Onsite Fault Locating Engineer]</p><p><br></p><; p>[Preliminary
Cause] </p>\"},\"execute\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p>; <p><br></p><p>[Onsite Fault Locating Engineer]</p><p><br>< /p><p>[Preliminary
Cause]</p>\"}}",
    "approver" : [ "a360371833bf4c558f796fd707b44daf" ],
    "reviewer" : [ "a360371833bf4c558f796fd707b44daf" ]
  } ],
  "plan_start_date" : "1733673600000",
  "plan_end_date" : "1735574400000"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : {
    "id" : "1073568012549795840",
    "number" : "CR20241211782294",
    "state" : "Working",
    "title" : "21-CR-10x",
    "category" : "CR",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_time" : "1733888160000",
    "modified_time" : "1733888160000",
    "plan_end_date" : "1735574400000",
    "plan_start_date" : "1733673600000",
    "need_approval" : "true",
    "status" : {
      "display_value" : "Pending review",
      "code" : "ToBeReviewed"
    },
    "description" : "<p><strong>[Change Review Background]</strong></p><p>1</p><p><strong>[Change
Review Value] </strong></p><p><br></p><p><strong>[Change Review Details]</strong></p>",
    "cos" : [ {
      "after_change" : "{\"view\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
Fault Locating]</p>\"},\"execute\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
Fault Locating]</p>\"},\"snapshot\":{\"found_iteration\":null,\"type\":\"bug\",\"test_failures_times
\":\"0\",\"number\":\"BUG20241209780441\",\"convolution_actual_hours\":null,\"path\":\"/
1072968362439385089\",\"workload_man_day\":null,\"id\":\"1072968362439385089\",\"state\":\"Working
\",\"sys_no_repair_reason\":null,\"module\":null,\"priority\":null,\"found_env\":null,\"sys_activation_reason
\":null,\"assignee\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id
\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a
\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"close_type\":null,\"status\":
{\"id\":\"1072203303913304105\",\"belonging\":\"START\",\"space_id\":\"1072203303493873664\",\"name
\":\"Analyzing\",\"status_category\":\"\",\"code\":\"Analyse\",\"definition_type
\":\"5\",\"belong_definition_type\":3,\"belong_scope\":\"\",\"display_value\":\"Analyzing\",\"position
\":2,\"displayable\":1,\"editable\":1,\"deletable\":1,\"mutable\":1,\"title_py\":\"fx\",\"builtin\":false,\"label
\":\"\",\"description\":\"\",\"created_by\":\"a360371833bf4c558f796fd707b44daf\",\"created_userinfo
```

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\":null,\"created_on\":\"\",\"created_date\":1733591588000,\"modified_date\":1733591588000,\"modified_by
\":\"a360371833bf4c558f796fd707b44daf\",\"category_code\":[],\"editing_fields\":[],\"associate
\":null,\"linkage_node_fields\":false},\"tenant_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"plan_pi
\":null,\"repair_solution\":null,\"plan_end_date\":null,\"expected_repair_date\":null,\"plan_iteration
\":null,\"cascade_delete\":\"none\",\"issue_opinion_id\":null,\"modified_by\":{\"watcher\":0,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":\"devcloud_devcloud_01\",\"nick_name\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"position_float
\":\"10000000000.0000000000\",\"belong_inside\":\"1\",\"regression_failure_number\":\"0\",\"src_domain\":
{\"id\":\"1072203303493873664\",\"name\":\"beta-m2-wyl-021\",\"title\":\"beta-m2-wyl-021\",\"project_id
\":\"b248a70bc6434e6bad54c8e73a222dca\",\"parent_id\":\"\",\"category\":\"Project\",\"created_by
\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10002\",\"children\":[]},\"domain_id\":{\"id
\":\"1072203303493873664\",\"name\":\"beta-m2-wyl-021\",\"title\":\"beta-m2-wyl-021\",\"project_id
\":\"b248a70bc6434e6bad54c8e73a222dca\",\"parent_id\":\"\",\"category\":\"Project\",\"created_by
\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10002\",\"children\":[]},\"send_from
\":\"\",\"send_to\":\"\",\"stay_days\":2,\"test_report\":null,\"assigned_cc\":null,\"return_reason
\":null,\"submit_time\":1733745191791,\"workitem2label\":null,\"close_time\":null,\"modified_date
\":1733887226000,\"created_by\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf
\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id
\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name
\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"activate_times
\":\"0\",\"status_modified_date\":1733745192515,\"parent_id\":null,\"business_domain\":null,\"found_pi
\":null,\"region\":\"example\",\"reason_analysis\":null,\"link\":\"\",\"is_suspended\":null,\"origin_id
\":\"1072968362439385089\",\"change_status\":{\"id\":\"1072203303896526856\",\"display_value\":\"
unchange\",\"value\":\"unchange\",\"code\":\"unchange\",\"value_py\":\"unchange\",\"sequence\":1.0,\"level
\":1,\"domain_id\":\"1072203303493873664\",\"belong_definition_type\":\"5\"},\"title\":\"21-
Bug-01\",\"sum_workload_man_day\":null,\"plan_start_date\":null,\"severity\":{\"id
\":\"1072203303896526851\",\"display_value\":\" Info\",\"value\":\"Info\",\"code\":\"Info\",\"value_py\":\"ts
\",\"sequence\":1.0,\"level\":1,\"domain_id\":\"1072203303493873664\",\"belong_definition_type
\":\"5\"},\"convolution_plan_hours\":null,\"submitted_by\":[{\"watcher\":0,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":\"devcloud_devcloud_01\",\"nick_name\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"}],\"sys_return_reason
\":null,\"issue_review_id\":null,\"created_date\":1733745192388,\"category\":\"Bug\",\"setup
\":true,\"collaborative_status\":[],\"parent_status\":\"no\"}}",
    "before_change" : "{\"view\":{\"description\":\" [Fault Symptom]
 [Environment
Information]
 [Onsite Fault Locating Engineer]
 [Preliminary
Cause] \"}}",
    "category" : "CO",
    "ccbs" : [{
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    }],
    "change_type" : "Modify",
    "co2review" : "1073568012549795840",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1733888157000",
    "description" : " [Fault Symptom]
 [Environment Information]
</
p> [Onsite Fault Locating R&D Engineer]
 [Preliminary Fault Locating] ",
    "id" : "1073568002185670656",
    "issue_id" : "1072968362439385089",
    "issue_number" : "BUG20241209780441",
    "issue_category" : "Bug",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_date" : "1733888157000",
    "opinions" : [{ }],
    "approver" : ["a360371833bf4c558f796fd707b44daf"],
    "reviewer" : ["a360371833bf4c558f796fd707b44daf"],
    "status" : "ToBeReviewed"

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```
  } ],
  "cc" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account"
  } ]
 }
}
```

Status code: 400

```
{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.17.3 Querying Reviews

Function

Query reviews, including change reviews (CRs), general reviews (GRs), and baseline reviews (BRs).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:review:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/{project_id}/review/query

Table 4-1077 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Request Parameters

Table 4-1078 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Review type. **Range** • **CR**: change review • **BR**: baseline review • **GR**: general review
created_by	No	String	**Definition** Review creator ID. Obtain a user ID by calling the API for **querying project members**. The value of **id** in the response message body is a user ID. **Constraints** A string of 32 characters consisting of lowercase letters and digits. **Range** N/A **Default Value** N/A
keyword	No	String	**Definition** Keyword search. Fuzzy search by title and exact search by ID are supported. **Constraints** N/A **Range** N/A **Default Value** N/A
created_time	No	**DateFilterVO** object	**Definition** Creation time filter for reviews.
plan_end_date	No	**DateFilterVO** object	**Definition** Planned completion time filter for reviews.

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Parameter	Mandatory	Type	Description
plan_start_date	No	DateFilterVO object	**Definition** Planned start time filter for reviews.
closed_time	No	DateFilterVO object	**Definition** Completion time filter for reviews.
approver	No	String	**Definition** Review decision-maker ID. **Constraints** Use commas (,) to separate multiple values. **Range** N/A **Default Value** N/A
reviewer	No	String	**Definition** Review expert ID. **Constraints** Use commas (,) to separate multiple values. **Range** N/A **Default Value** N/A
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value must be evenly divisible by **limit**. **Range** N/A **Default Value** 0

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Number of records on each page (pagination parameter). **Constraints** The value must be a positive divisor of **offset**. Otherwise, the default value is used. **Range** N/A **Default Value** 20
sort	No	Array of **SortInfo** objects	**Definition** Sorting order.

Table 4-1079 DateFilterVO

Parameter	Mandatory	Type	Description
start_date	No	String	**Definition** Start timestamp of the time filter, for example, 1711036800000. **Constraints** **-2** indicates that no content is set. **Range** N/A **Default Value** N/A
end_date	No	String	**Definition** End timestamp of the time filter, for example, 1711036899999. **Constraints** **-2** indicates that no content is set. **Range** N/A **Default Value** N/A

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Table 4-1080 SortInfo

Parameter	Mandatory	Type	Description
field	No	String	**Definition** Sorting field code. **Constraints** N/A **Range** Obtain the value from the API for **querying field templates**. The value is **code** in the response body. **Default Value** N/A
asc	No	Boolean	**Definition** Ascending or not. **Constraints** N/A **Range** • **true**: ascending • **false**: descending **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1081 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	Request error message.
result	**ReviewListResult** object	Review list.

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Table 4-1082 ReviewListResult

Parameter	Type	Description
data	Array of **ReviewListEntity** objects	Review list.
total	Integer	Total number of reviews in a project. CRs, BRs, and GRs are counted separately.

Table 4-1083 ReviewListEntity

Parameter	Type	Description
id	String	**Definition** Review ID. Obtain the value by calling the **Querying the Review List** API. The value of **id** in the response body is the review ID. **Range** A string of 18 to 19 digits.
number	String	**Definition** Review ID, which is automatically generated by the system. **Range** N/A
state	String	**Definition** Lifecycle status of the review. **Range** **In use**: reviews that can be operated properly • **Discarded**: reviews that have been deleted.
title	String	**Definition** Review title. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Review type. **Range** • **CR**: change review • **BR**: baseline review • **GR**: general review
created_by	**UserEntity** object	**Definition** Information about the review form creator.
modified_by	**UserEntity** object	**Definition** Information about the last modifier of the review.
assigned_cc	Array of **UserEntity** objects	**Definition** List of Cc recipients of the review form. **Range** Max. 50 Cc recipients.
created_time	String	**Definition** Timestamp when a review form is created, in milliseconds. **Range** N/A
modified_time	String	**Definition** Timestamp when the review was last modified, in milliseconds. **Range** N/A
plan_end_date	String	**Definition** Timestamp of the planned completion date, in milliseconds. Cannot be earlier than the planned start date. **Range** N/A
plan_start_date	String	**Definition** Timestamp of the planned start date, in milliseconds. Cannot be later than the planned completion date. **Range** N/A

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Parameter	Type	Description
close_time	String	**Definition** Timestamp when a review is closed, in milliseconds. **Range** N/A
need_approval	String	**Definition** Whether the review needs to be approved by the decision-maker. **Range** • **yes**: approval required • **no**: approval not required
status	**StatusEntity** object	**Definition** Review status information.
description	String	**Definition** Review description. Note: The list API does not return the description. **Range** Max. 50,000 characters.
closed_time	String	**Definition** Timestamp when a review is completed, in milliseconds. **Range** N/A
approver	String	**Definition** Decision maker user ID. Separate decision maker IDs with commas (,). **Range** N/A
reviewer	String	**Definition** User ID of the reviewer. Separate reviewers with commas (,). **Range** N/A
cos	Array of **COEntity** objects	**Definition** List of review objects (COs). **Range** Max. 50 review objects.

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Parameter	Type	Description
ccbs	Array of **CcbEntity** objects	**Definition** Approval information lists. **Range** N/A
cc	String	**Definition** User ID of the Cc recipient. Separate Cc recipients with commas (,). **Range** N/A

Table 4-1084 StatusEntity

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Unique status ID. **Range** N/A
created_by	String	**Definition** Status creator. **Range** N/A

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Parameter	Type	Description
created_time	String	**Definition** Status creation time. **Range** N/A
modified_by	String	**Definition** Status modifier. **Range** N/A
modified_time	String	**Definition** Latest modification time of a status. **Range** N/A
category_code	Array of strings	**Definition** Work items that use the status.

Table 4-1085 COEntity

Parameter	Type	Description
after_change	String	**Definition** Change object content after change. **Range** N/A
review_complete_time	String	**Definition** Review completion time of the change object. **Range** N/A
review_phase_result	String	**Definition** Review result of the change object. **Range** • **Approved** • **Rejected** (for CRs) • **TurnBacked** (for BRs/GRs)

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Parameter	Type	Description
review_time	String	**Definition** Review time of the change object. **Range** N/A
before_change	String	**Definition** Work item content before change. **Range** N/A
category	String	**Definition** Work item type of the change object. The value is fixed to **CO**. **Range** N/A
ccb_info	**CcbEntity** object	**Definition** Actual decision-maker of the change object. **Range** N/A
ccbs	Array of **UserEntity** objects	**Definition** List of decision makers for the change object. The list contains only one element. **Range** N/A
change_type	String	**Definition** Change type. **Range** **Modify** **Move**: migrate **Delete** **ModifyPlan**: move it into or out of the baselined release or sprint
co2review	String	**Definition** ID of the review associated with a change object. **Range** N/A

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Parameter	Type	Description
created_by	String	**Definition** Creator ID of a change object. **Range** N/A
created_date	String	**Definition** Time when a change object is created. **Range** N/A
description	String	**Definition** Description of a change object. **Range** N/A
id	String	**Definition** Change object ID. **Range** N/A
issue_id	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_number	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_category	String	**Definition** Type of the work item associated with a change object. **Range** N/A
modified_by	String	**Definition** ID of the last modifier of a change object. **Range** N/A

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Parameter	Type	Description
modified_date	String	**Definition** Last modification time of a change object. **Range** N/A
opinions	Array of **UserEntity** objects	**Definition** List of change object review expert IDs (used when a change review is created). **Range** N/A
opinion_comments	Array of **ReviewOpinionEntity** objects	**Definition** Review comments on a change object. **Range** N/A
review_comments	Array of **ReviewCommentEntity** objects	**Definition** Review comments on a change object (for review update). **Range** N/A
approval_comments	Array of **ReviewCommentEntity** objects	**Definition** Decision-making comments on a change object (for decision-making update). **Range** N/A
reviewer	Array of strings	**Definition** List of change object review expert IDs. **Range** N/A
approver	Array of strings	**Definition** Array of change object decision-maker IDs. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Change object status. **Range** • **Canceled**: The review form is canceled. • **ToBeCommitted**: The review form is saved. • **ToBeReviewed**: The review form is to be reviewed. • **ToBeApproved**: The review form is to be decided. • **Approved**: The review form is approved. • **TurnBacked**: The review form is turned back. • **Rejected**: The review form is rejected. • **End**: The review form is completed. • **Passed**: The review form is passed.

Table 4-1086 CcbEntity

Parameter	Type	Description
approval_time	String	**Definition** Approval time. **Range** N/A
category	String	**Definition** Work item type. The value is fixed at **CCB**. **Range** N/A
ccb2review	String	**Definition** ID of the review associated with an approval object. **Range** N/A

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Parameter	Type	Description
co_id	String	**Definition** ID of the associated change object. **Range** N/A
id	String	**Definition** Approval object ID. **Range** N/A
owner	**UserEntity** object	**Definition** Decision-maker. **Range** N/A
approval_comments	String	**Definition** Approval comments. **Range** N/A

Table 4-1087 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

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Table 4-1088 ReviewOpinionEntity

Parameter	Type	Description
category	String	**Definition** Review comment object type. The value is fixed at **Opinion**. **Range** N/A
co_id	String	**Definition** ID of the change object associated with the review comment object. **Range** N/A
created_by	**UserEntity** object	**Definition** Review expert who creates the review comment. **Range** N/A
created_date	String	**Definition** Review comment creation time. **Range** N/A
curr_owner	**UserEntity** object	**Definition** Current review expert. **Range** N/A
id	String	**Definition** Review comment object ID. **Range** N/A
modified_date	String	**Definition** Last modification time of a review comment. **Range** N/A
review_comments	String	**Definition** Review comment. **Range** N/A

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Table 4-1089 ReviewCommentEntity

Parameter	Type	Description
id	String	**Definition** Review comment object ID. **Range** N/A
user_id	String	**Definition** Reviewer ID. **Range** N/A
other_user_id	String	**Definition** ID of the review receiver (during review transfer). **Range** N/A
result	String	**Definition** Review result. **Range** N/A
comment	String	**Definition** Review comment. **Range** N/A

Table 4-1090 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A

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Parameter	Type	Description
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-1091 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying change reviews

```
POST https://{endpoint}/v1/ipdprojectservice/projects/de7115f62a96485b8ceaac6e68c701c4/review/query

{
  "type" : "CR",
  "limit" : 20,
  "offset" : 0
}
```

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Example Responses

Status code: 200


```
{
  "status" : "success",
  "result" : {
    "data" : [ {
      "id" : "1073260377648705537",
      "number" : "CR20241210781532",
      "state" : "Working",
      "title" : "21-CR-03x",
      "category" : "CR",
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "modified_by" : {
        "id" : "system",
        "name" : "System"
      },
      "created_time" : "1733814814000",
      "modified_time" : "1733814883000",
      "plan_end_date" : "1735574400000",
      "plan_start_date" : "1733673600000",
      "need_approval" : "yes",
      "status" : {
        "display_value" : "Completed",
        "code" : "End"
      },
      "closed_time" : "1733814883000",
      "cc" : "a360371833bf4c558f796fd707b44daf"
    }, {
      "id" : "1072969160107925505",
      "number" : "CR20241209780443",
      "state" : "Working",
      "title" : "21-CR-02",
      "category" : "CR",
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "modified_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "created_time" : "1733745382000",
      "modified_time" : "1733745382000",
      "need_approval" : "yes",
      "status" : {
        "display_value" : "Pending review",
        "code" : "ToBeReviewed"
      }
    } ],
    "total" : 2
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


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Status Codes

Status Code	Description
200	OK
400	Common error response

Error Codes

See **Error Codes**.

4.17.4 Querying the List of Reviews Associated with a Work Item by Work Item ID

Function

This API is used to list associated reviews by work item ID. The supported review types include change review (CR), general review (GR), and baseline review (BR).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/process-instances/query/{issue_id}

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Table 4-1092 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

Table 4-1093 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1094 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Request information. **Range** N/A
result	**result** object	**Definition** Request result. **Range** N/A

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Table 4-1095 result

Parameter	Type	Description
total	Integer	**Definition** Total number. **Range** N/A
process_instances	Array of **process_instances** objects	**Definition** Review list. **Range** N/A

Table 4-1096 process_instances

Parameter	Type	Description
cc	String	**Definition** Cc recipient. Multiple values are separated by commas (,). **Range** N/A
approver	String	**Definition** Review decision-maker. **Range** N/A
closed_time	String	**Definition** Review completion time. **Range** N/A
reviewer	String	**Definition** Review expert. **Range** N/A
type	String	**Definition** Review type. **Range** N/A

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Parameter	Type	Description
title	String	**Definition** Title. **Range** N/A
modified_date	String	**Definition** Modification time. **Range** N/A
created_by	**UserVO** object	**Definition** Creator. **Range** N/A
domain_id	String	**Definition** Project space ID. **Range** N/A
number	String	**Definition** Review No. **Range** N/A
need_approval	String	**Definition** Whether the review needs to be approved by the decision-maker. **Range** N/A
modified_by	**UserVO** object	**Definition** Modifier. **Range** N/A
approval_time	String	**Definition** Approval time. **Range** N/A

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Parameter	Type	Description
plan_end_date	String	**Definition** Planned end time. **Range** N/A
id	String	**Definition** Review ID. **Range** N/A
state	String	**Definition** Review data status. **Range** N/A
created_date	String	**Definition** Creation time. **Range** N/A
category	String	**Definition** Review type. **Range** N/A
plan_start_date	String	**Definition** Planned start time. **Range** N/A
status	**status** object	**Definition** Review status. **Range** N/A
ccbs	Array of **UserObject** objects	**Definition** Decision-maker object list. **Range** N/A
opinions	Array of **opinions** objects	**Definition** List of opinion objects. **Range** N/A

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Table 4-1097 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Table 4-1098 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A

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Parameter	Type	Description
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

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Table 4-1099 status

Parameter	Type	Description
code	String	**Definition** Status code. **Range** N/A
name	String	**Definition** Status name. **Range** N/A

Table 4-1100 UserObject

Parameter	Type	Description
watcher	String	**Definition** Favorited or not. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	String	**Definition** Digital ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
role_id	String	**Definition** Role ID. **Range** N/A
role_name	String	**Definition** Role name. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A
region	String	**Definition** Region. **Range** N/A
opinion	String	**Definition** Comments. **Range** N/A
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Owner. **Range** N/A

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Parameter	Type	Description
ccbId	String	**Definition** Decision-maker ID. **Range** N/A
has_removed	String	**Definition** Whether the user is removed from the project. **Range** N/A

Table 4-1101 opinions

Parameter	Type	Description
id	String	**Definition** Primary key of an opinion. **Range** N/A
type	String	**Definition** Type. **Range** N/A
state	String	**Definition** Data status. **Range** N/A
status	String	**Definition** Opinion status. **Range** N/A
region	String	**Definition** Region. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Type. **Range** N/A
title	String	**Definition** Title. **Range** N/A
rounds	String	**Definition** Rounds of reviews. **Range** N/A
opinion	String	**Definition** Review comment. **Range** N/A
description	String	**Definition** Description. **Range** N/A
modified_by	String	**Definition** Modifier. **Range** N/A
modified_date	String	**Definition** Modification time. **Range** N/A
created_by	**UserObject** object	**Definition** Creator. **Range** N/A
created_date	String	**Definition** Creation time. **Range** N/A

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Parameter	Type	Description
tenant_id	String	**Definition** Tenant ID. **Range** N/A
domain_id	String	**Definition** Project space ID. **Range** N/A
issue_category	String	**Definition** Object type. **Range** N/A
issue_id	String	**Definition** Object ID. **Range** N/A
curr_owner	**UserObject** object	**Definition** Current owner. **Range** N/A
co_id	String	**Definition** Change object ID. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A
opinion_issue_id	String	**Definition** Review work item ID. **Range** N/A
opinion_issue_category	String	**Definition** Review work item type. **Range** N/A

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Status code: 400

Table 4-1102 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying the list of change reviews associated with a work item

```
https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/process-instances/query/{issue_id}
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : "",
  "result" : {
    "total" : 3,
    "process_instances" : [ {
      "approver" : "c533da3e53244b589e7175bb766859ac",
      "cr2co" : "",
      "description" : "<p><strong>[GR Background]</strong></p><p><br></p><p><strong>[GR Benefits]</
strong></p><p><br></p><p><strong>[GR Details]</strong></p><br>",
      "type" : "process_instance",
      "title" : "GR - Verifying the Association Between the IR with Three Types of Reviews",
      "modified_date" : "1773633182962",
      "created_by" : {
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "user_name" : "devcloud_devcloud_xxx_01",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "nick_name" : "fortest1-devuc",
        "role_id" : "64a130fe0a4b4bb4921768a5b327a30a,66dcdb43ec68486190d48d65d853fb3b",
        "role_name" : "Project admin,Project manager"
      },
      "handing_cos" : "",
      "security_level" : "",
      "domain_id" : {
        "id" : "1145370089831313408",
        "state" : "In use",
        "title" : "IPD-bugfix-M1-0627 Association Map",
        "project_id" : "de7115f62a96485b8ceaac6e68c701c4",
```


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```
      "category" : "Project",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "model_id" : "10001",
      "project_template_id" : "10001",
      "category_template_id" : "10001",
      "feature_template_id" : "10001"
    },
    "number" : "GR20260316368608",
    "need_approval" : "yes",
    "modified_by" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "fortest1-devuc",
      "role_id" : "64a130fe0a4b4bb4921768a5b327a30a,66dcdb43ec68486190d48d65d853fb3b",
      "role_name" : "Project admin,Project manager"
    },
    "id" : "1240270720865181697",
    "state" : "In use",
    "created_date" : "1773633182962",
    "category" : "GR",
    "status" : {
      "code" : "ToBeApproved",
      "name" : "To be decided"
    },
    "ccbs" : [ {
      "user_id" : "c533da3e53244b589e7175bb766859ac",
      "user_name" : "xiaoxionghui001",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "Alias",
      "role_id" : "64a130fe0a4b4bb4921768a5b327a30a",
      "role_name" : "Project manager"
    } ]
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      "nick_name" : "fortest1-devuc",
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      "category_template_id" : "10001",
      "feature_template_id" : "10001"
    },
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```


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```
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      "user_id" : "system",
      "user_name" : "System",
      "ccbId" : "system"
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```


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    "created_date" : "1773633117786",
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_id" : "1145370089831313408",
    "issue_category" : "IR",

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```
      "issue_id" : "1240258003525734400",
      "change_type" : "ModifyPlan",
      "reviewer" : [ ],
      "approver" : [ "c533da3e53244b589e7175bb766859ac" ],
      "rounds" : "1",
      "last_round_result" : "Approved",
      "__placeholder_flag" : false
    } ],
    "ccbs" : [ {
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      "user_name" : "xiaoxionghui001",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "Alias",
      "role_id" : "64a130fe0a4b4bb4921768a5b327a30a",
      "role_name" : "Project manager"
    } ],
    "ccb_description" : "ok",
    "approval_time" : "1773633151000"
  }, {
    "approver" : "c533da3e53244b589e7175bb766859ac",
    "cr2co" : "",
    "description" : "<p><strong>[BR Background]</strong></p><p><br></p><p><strong>[BR Benefits]</
strong></p><p><br></p><p><strong>[BR Details]</strong></p><br>",
    "closed_time" : "1773632926000",
    "type" : "process_instance",
    "title" : "fortest1-devuc baseline review-initial requirement-verifying three types of reviews associated
with an IR",
    "modified_date" : "1773632926412",
    "created_by" : {
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      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "fortest1-devuc",
      "role_id" : "64a130fe0a4b4bb4921768a5b327a30a,66dcdb43ec68486190d48d65d853fb3b",
      "role_name" : "Project admin,Project manager"
    },
    "handing_cos" : "",
    "security_level" : "",
    "domain_id" : {
      "id" : "1145370089831313408",
      "state" : "In use",
      "title" : "IPD-bugfix-M1-0627 Association Map",
      "project_id" : "de7115f62a96485b8ceaac6e68c701c4",
      "category" : "Project",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "model_id" : "10001",
      "project_template_id" : "10001",
      "category_template_id" : "10001",
      "feature_template_id" : "10001"
    },
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    "need_approval" : "yes",
    "modified_by" : {
      "user_id" : "system",
      "user_name" : "System",
      "ccbId" : "system"
    },
    "id" : "1240259544743710721",
    "state" : "In use",
    "created_date" : "1773630518367",
    "category" : "BR",
    "status" : {
      "code" : "Passed",
      "name" : "Approved"
    },
    "ccbs" : [ {
      "user_id" : "c533da3e53244b589e7175bb766859ac",
```


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```
      "user_name" : "xiaoxionghui001",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "Alias",
      "role_id" : "64a130fe0a4b4bb4921768a5b327a30a",
      "role_name" : "Project manager"
     } ],
     "ccb_description" : "ok",
     "approval_time" : "1773632926000"
   } ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIpdReviewFormsByIssueIdSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIpdReviewFormsByIssueIdRequest request = new ListIpdReviewFormsByIssueIdRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        try {
            ListIpdReviewFormsByIssueIdResponse response = client.listIpdReviewFormsByIssueId(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
```

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```
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIpdReviewFormsByIssueIdRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        response = client.list_ipd_review_forms_by_issue_id(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
```

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```
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIpdReviewFormsByIssueIdRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    response, err := client.ListIpdReviewFormsByIssueId(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Successful response to the request for querying the list of change reviews associated with a work item.
400	Failed response to the request for querying the list of change reviews associated with a work item.

Error Codes

See **Error Codes**.

4.17.5 Querying Review Details

Function

This API is used to query review details, including change reviews, general reviews, and baseline reviews.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:review:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/review/{review_id}

Table 4-1103 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
review_id	Yes	String	**Definition** Review ID, which uniquely identifies a review. Obtain the value by calling the API for **querying the review list (BR/GR)**. The value of **id** in the response body is the review ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

Table 4-1104 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Review type. **Constraints** N/A **Range** • **BR**: baseline review • **CR**: change review • **GR**: general review **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1105 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Response message. **Range** N/A
result	**ReviewEntity** object	Review details

Table 4-1106 ReviewEntity

Parameter	Type	Description
id	String	**Definition** Review ID. **Range** N/A
number	String	**Definition** Review No. **Range** N/A
state	String	**Definition** Lifecycle of a review. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin
title	String	**Definition** Review title. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Review type. **Range** **CR** (change review), **BR** (baseline review), and **GR** (general review).
created_by	**UserEntity** object	**Definition** Review creator.
modified_by	**UserEntity** object	**Definition** Last modifier of a review.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a review.
created_time	String	**Definition** Creation timestamp of a review. **Range** N/A
modified_time	String	**Definition** Timestamp when a review was last modified. **Range** N/A
plan_end_date	String	**Definition** Timestamp of the planned completion date. **Range** N/A
plan_start_date	String	**Definition** Timestamp of the planned start date. **Range** N/A
close_time	String	**Definition** Review completion time. **Range** N/A

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Parameter	Type	Description
need_approval	String	**Definition** Whether the review requires approver approval. **Range** • **true**: Required. • **false**: Not required.
status	**StatusEntity** object	**Definition** Review status.
description	String	**Definition** Review description. **Range** N/A
closed_time	String	**Definition** Review completion time. **Range** N/A
approver	String	**Definition** Decision-maker ID. **Range** N/A
reviewer	String	**Definition** ID of a review expert. **Range** N/A
cos	Array of **COEntity** objects	**Definition** Review object list.
ccbs	Array of **CcbEntity** objects	**Definition** Approval information lists.
old_status	**StatusEntity** object	**Definition** Historical review status.
cc	Array of **UserEntity** objects	**Definition** List of CC recipients.

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Parameter	Type	Description
ccb_user	Array of **UserObject** objects	**Definition** CCB user list. **Range** N/A
ccb_opinion	String	**Definition** CCB opinion. **Range** N/A
ccb_id	String	**Definition** CCB ID. **Range** N/A
reviewer_user	Array of **UserObject** objects	**Definition** Reviewer list. **Range** N/A
processor	Array of **UserObject** objects	**Definition** Handler list. **Range** N/A
processorNickNames	String	**Definition** Handler nickname. **Range** N/A
reviewResult	**ReviewResultVO** object	**Definition** Review result statistics.
reviewResultTxt	String	**Definition** Review result text. **Range** N/A
approvedResult	**ReviewResultVO** object	**Definition** Approval result statistics.
approvedResultTxt	String	**Definition** Approval result text. **Range** N/A

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Table 4-1107 COEntity

Parameter	Type	Description
after_change	String	**Definition** Change object content after change. **Range** N/A
review_complete_time	String	**Definition** Review completion time of the change object. **Range** N/A
review_phase_result	String	**Definition** Review result of the change object. **Range** • **Approved** • **Rejected** (for CRs) • **TurnBacked** (for BRs/GRs)
review_time	String	**Definition** Review time of the change object. **Range** N/A
before_change	String	**Definition** Work item content before change. **Range** N/A
category	String	**Definition** Work item type of the change object. The value is fixed to **CO**. **Range** N/A
ccb_info	**CcbEntity** object	**Definition** Actual decision-maker of the change object. **Range** N/A

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Parameter	Type	Description
ccbs	Array of **UserEntity** objects	**Definition** List of decision makers for the change object. The list contains only one element. **Range** N/A
change_type	String	**Definition** Change type. **Range** **Modify** **Move**: migrate **Delete** **ModifyPlan**: move it into or out of the baselined release or sprint
co2review	String	**Definition** ID of the review associated with a change object. **Range** N/A
created_by	String	**Definition** Creator ID of a change object. **Range** N/A
created_date	String	**Definition** Time when a change object is created. **Range** N/A
description	String	**Definition** Description of a change object. **Range** N/A
id	String	**Definition** Change object ID. **Range** N/A

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Parameter	Type	Description
issue_id	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_number	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_category	String	**Definition** Type of the work item associated with a change object. **Range** N/A
modified_by	String	**Definition** ID of the last modifier of a change object. **Range** N/A
modified_date	String	**Definition** Last modification time of a change object. **Range** N/A
opinions	Array of **UserEntity** objects	**Definition** List of change object review expert IDs (used when a change review is created). **Range** N/A
opinion_comments	Array of **ReviewOpinionEntity** objects	**Definition** Review comments on a change object. **Range** N/A

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Parameter	Type	Description
review_comments	Array of **ReviewCommentEntity** objects	**Definition** Review comments on a change object (for review update). **Range** N/A
approval_comments	Array of **ReviewCommentEntity** objects	**Definition** Decision-making comments on a change object (for decision-making update). **Range** N/A
reviewer	Array of strings	**Definition** List of change object review expert IDs. **Range** N/A
approver	Array of strings	**Definition** Array of change object decision-maker IDs. **Range** N/A
status	String	**Definition** Change object status. **Range** • **Canceled**: The review form is canceled. • **ToBeCommitted**: The review form is saved. • **ToBeReviewed**: The review form is to be reviewed. • **ToBeApproved**: The review form is to be decided. • **Approved**: The review form is approved. • **TurnBacked**: The review form is turned back. • **Rejected**: The review form is rejected. • **End**: The review form is completed. • **Passed**: The review form is passed.

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Table 4-1108 CcbEntity

Parameter	Type	Description
approval_time	String	**Definition** Approval time. **Range** N/A
category	String	**Definition** Work item type. The value is fixed at **CCB**. **Range** N/A
ccb2review	String	**Definition** ID of the review associated with an approval object. **Range** N/A
co_id	String	**Definition** ID of the associated change object. **Range** N/A
id	String	**Definition** Approval object ID. **Range** N/A
owner	**UserEntity** object	**Definition** Decision-maker. **Range** N/A
approval_comments	String	**Definition** Approval comments. **Range** N/A

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Table 4-1109 ReviewOpinionEntity

Parameter	Type	Description
category	String	**Definition** Review comment object type. The value is fixed at **Opinion**. **Range** N/A
co_id	String	**Definition** ID of the change object associated with the review comment object. **Range** N/A
created_by	**UserEntity** object	**Definition** Review expert who creates the review comment. **Range** N/A
created_date	String	**Definition** Review comment creation time. **Range** N/A
curr_owner	**UserEntity** object	**Definition** Current review expert. **Range** N/A
id	String	**Definition** Review comment object ID. **Range** N/A
modified_date	String	**Definition** Last modification time of a review comment. **Range** N/A
review_comments	String	**Definition** Review comment. **Range** N/A

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Table 4-1110 ReviewCommentEntity

Parameter	Type	Description
id	String	**Definition** Review comment object ID. **Range** N/A
user_id	String	**Definition** Reviewer ID. **Range** N/A
other_user_id	String	**Definition** ID of the review receiver (during review transfer). **Range** N/A
result	String	**Definition** Review result. **Range** N/A
comment	String	**Definition** Review comment. **Range** N/A

Table 4-1111 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Table 4-1112 StatusEntity

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Unique status ID. **Range** N/A
created_by	String	**Definition** Status creator. **Range** N/A
created_time	String	**Definition** Status creation time. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** Status modifier. **Range** N/A
modified_time	String	**Definition** Latest modification time of a status. **Range** N/A
category_code	Array of strings	**Definition** Work items that use the status.

Table 4-1113 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

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Table 4-1114 UserObject

Parameter	Type	Description
watcher	String	**Definition** Favorited or not. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	String	**Definition** Digital ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
role_id	String	**Definition** Role ID. **Range** N/A

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Parameter	Type	Description
role_name	String	**Definition** Role name. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A
region	String	**Definition** Region. **Range** N/A
opinion	String	**Definition** Comments. **Range** N/A
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Owner. **Range** N/A
ccbId	String	**Definition** Decision-maker ID. **Range** N/A
has_removed	String	**Definition** Whether the user is removed from the project. **Range** N/A

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Table 4-1115 ReviewResultVO

Parameter	Type	Description
approvedNum	String	**Definition** Number of items approved. **Range** N/A
rejectedNum	String	**Definition** Number of items rejected. **Range** N/A
pendingNum	String	**Definition** Number of items pending. **Range** N/A
turnBackedNum	String	**Definition** Number of items returned. **Range** N/A

Status code: 400

Table 4-1116 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying baseline review details

```
GET https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/review/1029697355810648065?category=BR
```

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Example Responses

Status code: 200


```
{
  "status" : "success",
  "result" : {
    "id" : "1029697355810648065",
    "number" : "BR20240812233640",
    "state" : "In use",
    "title" : "BR-IR",
    "category" : "BR",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test alias"
    },
    "modified_by" : {
      "id" : "system",
      "name" : "System"
    },
    "created_time" : "1723428580000",
    "modified_time" : "1723428601000",
    "plan_end_date" : "1724688000000",
    "plan_start_date" : "1723478400000",
    "need_approval" : "true",
    "status" : {
      "display_value" : "Approved",
      "code" : "Passed"
    },
    "description" : "<p><strong>[Baseline Description]</strong></p>",
    "cos" : [ {
      "after_change" : "{\"view\":{},\"execute\":{},\"snapshot\":{\"develop_owner\":null,\"type\":\"requirement
\",\"plan_test_end_date\":null,\"number\":\"IR20240703054812\",\"convolution_actual_hours\":null,\"path
\":\"/1015209126636986369\",\"workload_man_day\":null,\"children\":null,\"id
\":\"1015209126636986369\",\"state\":\"Working\",\"need_break\":{\"id
\":\"995623980368965685\",\"display_value\":\"Yes\",\"value\":\"yes\",\"code\":\"yes\",\"value_py\":\"yes
\",\"sequence\":1.0,\"level\":1,\"domain_id\":\"995623979534299136\",\"belong_definition_type
\":\"5\"},\"baseline\":null,\"priority\":{\"id\":\"995623980368965646\",\"display_value\":\"low\",\"value
\":\"low\",\"code\":\"low\",\"value_py\":\"1\",\"sequence\":3.0,\"level\":1,\"domain_id
\":\"995623979534299136\",\"belong_definition_type\":\"5\"},\"break_status\":{\"id
\":\"995623980368965652\",\"display_value\":\"Not broken down\",\"value\":\"undecomposed\",\"code
\":\"undecomposed\",\"value_py\":\"undecomposed\",\"sequence\":2.0,\"level\":1,\"domain_id
\":\"995623979534299136\",\"belong_definition_type\":\"5\"},\"assignee\":{\"watcher\":null,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":\"devcloud_devcloud_01\",\"nick_name\":\"Test alias\",\"role_id
\":\"a6e1428a71e14bc489bcd5b460bfbced,d77754d3becb42ec80431f49f8906bcf\",\"role_name\":\"Project
admin,Project manager\",\"image_id\":null,\"region\":null,\"opinion\":null,\"description\":null,\"owner
\":null,\"ccbId\":null,\"has_removed\":null},\"status\":{\"id\":\"995623980381548551\",\"belonging
\":\"IN_PROGRESS\",\"space_id\":\"995623979534299136\",\"name\":\"Test\",\"status_category\":null,\"code
\":\"Test\",\"definition_type\":\"5\",\"belong_definition_type\":3,\"belong_scope\":null,\"display_value\":\"Test
\",\"position\":4,\"displayable\":1,\"editable\":1,\"deletable\":1,\"mutable\":1,\"title_py\":\"cs\",\"builtin
\":null,\"label\":null,\"description\":null,\"created_by\":\"a360371833bf4c558f796fd707b44daf
\",\"created_userinfo\":null,\"created_on\":null,\"created_date\":1715333654000,\"modified_date
\":1715333654000,\"modified_by\":\"a360371833bf4c558f796fd707b44daf\",\"category_code
\":null,\"editing_fields\":null,\"associate\":null,\"linkage_node_fields\":false},\"tenant_id
\":\"4e919d73499648e3b0292cd3cbef806a\",\"plan_pi\":null,\"plan_dev_end_date\":null,\"plan_end_date
\":null,\"cascade_delete\":\"none\",\"modified_by\":{\"watcher\":0,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":\"devcloud_devcloud_01\",\"nick_name\":\"Test alias\",\"role_id
\":\"a6e1428a71e14bc489bcd5b460bfbced,d77754d3becb42ec80431f49f8906bcf\",\"role_name\":\"Project
admin,Project manager\",\"role_alias_name\":\"Project admin,Project manager\",\"role_code
\":\"project_admin,Project manager\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"closed_flag
\":null,\"collaborative_status\":[],\"position_float\":\"9999999538.6270750000\",\"domain_id\":{\"id
\":\"995623979534299136\",\"name\":\"IPD-feature-M1-0510-copyFrom\",\"title\":\"IPD-feature-M1-0510-
copyFrom\",\"project_id\":\"b54914d464d1498a97d683ef198ec448\",\"parent_id\":\"\",\"category\":\"Project
\",\"created_by\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10001\",\"children\":
```


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[]},\"processing_owner\":null,\"stay_days\":26,\"ir2feature\":\"\",\"related_network_security\":{\"id\":\"995623980368965637\",\"display_value\":\"No\",\"value\":\"no\",\"code\":\"no\",\"value_py\":\"no\",\"sequence\":2.0,\"level\":1,\"domain_id\":\"995623979534299136\",\"belong_definition_type\":\"5\"},\"assigned_cc\":null,\"workitem2label\":null,\"c7205110023690788864\":null,\"close_time\":null,\"modified_date\":1723255005000,\"created_by\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test alias\",\"role_id\":\"a6e1428a71e14bc489bcd5b460bfbced,d77754d3becb42ec80431f49f8906bcf\",\"role_name\":\"Project admin,Project manager\",\"role_alias_name\":\"Project admin,Project manager\",\"role_code\":\"project_admin,Project manager\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"status_modified_date\":1720150409000,\"important\":null,\"collaboratives\":null,\"parent_id\":null,\"business_domain\":{\"id\":\"995623980368965664\",\"display_value\":\"Software\",\"value\":\"software\",\"code\":\"software\",\"value_py\":\"rj\",\"sequence\":0.0,\"level\":1,\"domain_id\":\"995623979534299136\",\"belong_definition_type\":\"5\"},\"region\":\"example\",\"plan_processing_end_date\":null,\"link\":\"\",\"is_suspended\":null,\"change_status\":null,\"title\":\"IR-API-Attachment 1\",\"sum_workload_man_day\":null,\"ir2rr\":\"\",\"plan_start_date\":null,\"convolution_plan_hours\":null,\"no_break_reason\":null,\"submitted_by\":[{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test alias\",\"role_id\":\"a6e1428a71e14bc489bcd5b460bfbced,d77754d3becb42ec80431f49f8906bcf\",\"role_name\":\"Project admin,Project manager\",\"role_alias_name\":\"Project admin,Project manager\",\"role_code\":\"project_admin,Project manager\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"}],\"test_owner\":null,\"created_date\":1719974317000,\"category\":\"IR\",\"setup\":true,\"inherit_button\":\"hide\",\"parent_status\":\"no\"}}",
    "approver" : [ ],
    "before_change" : "{\"view\":{}}",
    "category" : "CO",
    "change_type" : "Modify",
    "co2review" : "1029697355810648065",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "2024-08-12T10:09:40Z",
    "description" : " [Background]
 [Value]
 [Details] ",
    "id" : "1029697354418139136",
    "issue_id" : "1015209126636986369",
    "issue_number" : "IR20240703054812",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_date" : "2024-08-12T10:09:40Z",
    "reviewer" : [ ],
    "status" : "Test"
  }],
  "ccbs" : [{ }]
 }
}

Status code: 400

{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

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Error Codes

See **Error Codes**.

4.17.6 Updating a Change Review

Function

This API is used to update a change review.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:review:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/ipdprojectservice/projects/{project_id}/review/{review_id}

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Table 4-1117 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
review_id	Yes	String	**Definition** Review ID, which uniquely identifies a review. Obtain the value by calling the API for **querying the review list (BR/GR)**. The value of **id** in the response body is the review ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-1118 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Review type. **Constraints** N/A **Range** • **BR**: baseline review • **CR**: change review • **GR**: general review **Default Value** N/A

Request Parameters

Table 4-1119 Request body parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Review type. **Constraints** **CR** only. **Range** **CR** only. **Default Value** N/A

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Parameter	Mandatory	Type	Description
old_status	Yes	**ReviewStatusEntity** object	**Definition** Review status before the update. **Constraints** 0 to 32 characters. **Range** • **ToBeReviewed** • **ToBeApproved** • **Committed** • **Canceled** • **ReCommitted** • **Rejected** **Default Value** N/A
status	Yes	**ReviewStatusEntity** object	**Definition** Target status code of a review. **Constraints** 0 to 32 characters. **Range** • **ToBeReviewed** • **ToBeApproved** • **Committed** • **Canceled** • **ReCommitted** • **Rejected** **Default Value** N/A
cos	Yes	Array of **COUpdateEntity** objects	**Definition** Review object list.

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Table 4-1120 ReviewStatusEntity

Parameter	Mandatory	Type	Description
code	Yes	String	**Definition** Review status code. **Constraints** N/A **Range** • **ToBeReviewed** • **ToBeApproved** • **Committed** • **Canceled** • **ReCommitted** • **Rejected** **Default Value** N/A

Table 4-1121 COUpdateEntity

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition** Change object ID. **Constraints** 18 to 19 characters. **Range** N/A **Default Value** N/A
review_comments	No	Array of **ReviewCommentUpdateEntity** objects	Review comments on the change object
approval_comments	No	Array of **ReviewCommentUpdateEntity** objects	Decision-making comments on the change object. This parameter is mandatory when the review is in the to-be-decided phase.

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Table 4-1122 ReviewCommentUpdateEntity

Parameter	Mandatory	Type	Description
result	No	String	Review result, which is mandatory during review. Approved: The review/decision-making is approved. Rejected: The review/decision-making is rejected.
comment	No	String	Review comments, which are mandatory for review.
other_user_id	No	String	ID of the review receiver (mandatory during review transfer).

Response Parameters

Status code: 200

Table 4-1123 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Response message. **Range** N/A
result	**ReviewEntity** object	Review details

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Table 4-1124 ReviewEntity

Parameter	Type	Description
id	String	**Definition** Review ID. **Range** N/A
number	String	**Definition** Review No. **Range** N/A
state	String	**Definition** Lifecycle of a review. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin
title	String	**Definition** Review title. **Range** N/A
category	String	**Definition** Review type. **Range** **CR** (change review), **BR** (baseline review), and **GR** (general review).
created_by	**UserEntity** object	**Definition** Review creator.
modified_by	**UserEntity** object	**Definition** Last modifier of a review.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a review.
created_time	String	**Definition** Creation timestamp of a review. **Range** N/A

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Parameter	Type	Description
modified_time	String	**Definition** Timestamp when a review was last modified. **Range** N/A
plan_end_date	String	**Definition** Timestamp of the planned completion date. **Range** N/A
plan_start_date	String	**Definition** Timestamp of the planned start date. **Range** N/A
close_time	String	**Definition** Review completion time. **Range** N/A
need_approval	String	**Definition** Whether the review requires approver approval. **Range** • **true**: Required. • **false**: Not required.
status	**StatusEntity** object	**Definition** Review status.
description	String	**Definition** Review description. **Range** N/A
closed_time	String	**Definition** Review completion time. **Range** N/A

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Parameter	Type	Description
approver	String	**Definition** Decision-maker ID. **Range** N/A
reviewer	String	**Definition** ID of a review expert. **Range** N/A
cos	Array of **COEntity** objects	**Definition** Review object list.
ccbs	Array of **CcbEntity** objects	**Definition** Approval information lists.
old_status	**StatusEntity** object	**Definition** Historical review status.
cc	Array of **UserEntity** objects	**Definition** List of CC recipients.
ccb_user	Array of **UserObject** objects	**Definition** CCB user list. **Range** N/A
ccb_opinion	String	**Definition** CCB opinion. **Range** N/A
ccb_id	String	**Definition** CCB ID. **Range** N/A
reviewer_user	Array of **UserObject** objects	**Definition** Reviewer list. **Range** N/A

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Parameter	Type	Description
processor	Array of **UserObject** objects	**Definition** Handler list. **Range** N/A
processorNickNames	String	**Definition** Handler nickname. **Range** N/A
reviewResult	**ReviewResultVO** object	**Definition** Review result statistics.
reviewResultTxt	String	**Definition** Review result text. **Range** N/A
approvedResult	**ReviewResultVO** object	**Definition** Approval result statistics.
approvedResultTxt	String	**Definition** Approval result text. **Range** N/A

Table 4-1125 COEntity

Parameter	Type	Description
after_change	String	**Definition** Change object content after change. **Range** N/A
review_complete_time	String	**Definition** Review completion time of the change object. **Range** N/A

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Parameter	Type	Description
review_phase_result	String	**Definition** Review result of the change object. **Range** • **Approved** • **Rejected** (for CRs) • **TurnBacked** (for BRs/GRs)
review_time	String	**Definition** Review time of the change object. **Range** N/A
before_change	String	**Definition** Work item content before change. **Range** N/A
category	String	**Definition** Work item type of the change object. The value is fixed to **CO**. **Range** N/A
ccb_info	**CcbEntity** object	**Definition** Actual decision-maker of the change object. **Range** N/A
ccbs	Array of **UserEntity** objects	**Definition** List of decision makers for the change object. The list contains only one element. **Range** N/A
change_type	String	**Definition** Change type. **Range** **Modify** **Move**: migrate **Delete** **ModifyPlan**: move it into or out of the baselined release or sprint

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Parameter	Type	Description
co2review	String	**Definition** ID of the review associated with a change object. **Range** N/A
created_by	String	**Definition** Creator ID of a change object. **Range** N/A
created_date	String	**Definition** Time when a change object is created. **Range** N/A
description	String	**Definition** Description of a change object. **Range** N/A
id	String	**Definition** Change object ID. **Range** N/A
issue_id	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_number	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_category	String	**Definition** Type of the work item associated with a change object. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** ID of the last modifier of a change object. **Range** N/A
modified_date	String	**Definition** Last modification time of a change object. **Range** N/A
opinions	Array of **UserEntity** objects	**Definition** List of change object review expert IDs (used when a change review is created). **Range** N/A
opinion_comments	Array of **ReviewOpinionEntity** objects	**Definition** Review comments on a change object. **Range** N/A
review_comments	Array of **ReviewCommentEntity** objects	**Definition** Review comments on a change object (for review update). **Range** N/A
approval_comments	Array of **ReviewCommentEntity** objects	**Definition** Decision-making comments on a change object (for decision-making update). **Range** N/A
reviewer	Array of strings	**Definition** List of change object review expert IDs. **Range** N/A

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Parameter	Type	Description
approver	Array of strings	**Definition** Array of change object decision-maker IDs. **Range** N/A
status	String	**Definition** Change object status. **Range** • **Canceled**: The review form is canceled. • **ToBeCommitted**: The review form is saved. • **ToBeReviewed**: The review form is to be reviewed. • **ToBeApproved**: The review form is to be decided. • **Approved**: The review form is approved. • **TurnBacked**: The review form is turned back. • **Rejected**: The review form is rejected. • **End**: The review form is completed. • **Passed**: The review form is passed.

Table 4-1126 CcbEntity

Parameter	Type	Description
approval_time	String	**Definition** Approval time. **Range** N/A
category	String	**Definition** Work item type. The value is fixed at **CCB**. **Range** N/A

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Parameter	Type	Description
ccb2review	String	**Definition** ID of the review associated with an approval object. **Range** N/A
co_id	String	**Definition** ID of the associated change object. **Range** N/A
id	String	**Definition** Approval object ID. **Range** N/A
owner	**UserEntity** object	**Definition** Decision-maker. **Range** N/A
approval_comments	String	**Definition** Approval comments. **Range** N/A

Table 4-1127 ReviewOpinionEntity

Parameter	Type	Description
category	String	**Definition** Review comment object type. The value is fixed at **Opinion**. **Range** N/A
co_id	String	**Definition** ID of the change object associated with the review comment object. **Range** N/A

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Parameter	Type	Description
created_by	**UserEntity** object	**Definition** Review expert who creates the review comment. **Range** N/A
created_date	String	**Definition** Review comment creation time. **Range** N/A
curr_owner	**UserEntity** object	**Definition** Current review expert. **Range** N/A
id	String	**Definition** Review comment object ID. **Range** N/A
modified_date	String	**Definition** Last modification time of a review comment. **Range** N/A
review_comments	String	**Definition** Review comment. **Range** N/A

Table 4-1128 ReviewCommentEntity

Parameter	Type	Description
id	String	**Definition** Review comment object ID. **Range** N/A

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Parameter	Type	Description
user_id	String	**Definition** Reviewer ID. **Range** N/A
other_user_id	String	**Definition** ID of the review receiver (during review transfer). **Range** N/A
result	String	**Definition** Review result. **Range** N/A
comment	String	**Definition** Review comment. **Range** N/A

Table 4-1129 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

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Table 4-1130 StatusEntity

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Unique status ID. **Range** N/A
created_by	String	**Definition** Status creator. **Range** N/A
created_time	String	**Definition** Status creation time. **Range** N/A
modified_by	String	**Definition** Status modifier. **Range** N/A
modified_time	String	**Definition** Latest modification time of a status. **Range** N/A
category_code	Array of strings	**Definition** Work items that use the status.

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Table 4-1131 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Table 4-1132 UserObject

Parameter	Type	Description
watcher	String	**Definition** Favorited or not. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A

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Parameter	Type	Description
user_num_id	String	**Definition** Digital ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
role_id	String	**Definition** Role ID. **Range** N/A
role_name	String	**Definition** Role name. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A
region	String	**Definition** Region. **Range** N/A

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Parameter	Type	Description
opinion	String	**Definition** Comments. **Range** N/A
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Owner. **Range** N/A
ccbId	String	**Definition** Decision-maker ID. **Range** N/A
has_removed	String	**Definition** Whether the user is removed from the project. **Range** N/A

Table 4-1133 ReviewResultVO

Parameter	Type	Description
approvedNum	String	**Definition** Number of items approved. **Range** N/A
rejectedNum	String	**Definition** Number of items rejected. **Range** N/A

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Parameter	Type	Description
pendingNum	String	**Definition** Number of items pending. **Range** N/A
turnBackedNum	String	**Definition** Number of items returned. **Range** N/A

Status code: 400

Table 4-1134 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

- Review approved

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/b248a70bc6434e6bad54c8e73a222dca/review/1073568012549795840

{
  "category" : "CR",
  "old_status" : {
    "code" : "ToBeReviewed"
  },
  "status" : {
    "code" : "ToBeReviewed"
  },
  "cos" : [ {
    "id" : "1073568002185670656",
    "review_comments" : [ {
      "result" : "Approved",
      "comment" : "Review approved"
    } ]
  } ]
}
```

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- Review rejected

```
https://{endpoint}/v1/ipdprojectservice/projects/b248a70bc6434e6bad54c8e73a222dca/review/1073568012549795840

{
  "category" : "CR",
  "old_status" : {
    "code" : "ToBeReviewed"
  },
  "status" : {
    "code" : "ToBeReviewed"
  },
  "cos" : [ {
    "id" : "1073568002185670656",
    "review_comments" : [ {
      "result" : "Rejected",
      "comment" : "Review rejected"
    } ]
  } ]
}
```

- Review transferred

```
https://{endpoint}/v1/ipdprojectservice/projects/b248a70bc6434e6bad54c8e73a222dca/review/1073568012549795840

{
  "category" : "CR",
  "old_status" : {
    "code" : "ToBeReviewed"
  },
  "status" : {
    "code" : "ToBeReviewed"
  },
  "cos" : [ {
    "id" : "1073568002185670656",
    "review_comments" : [ {
      "other_user_id" : "09d25f5d3f80d2881fd7c008ecf1622b"
    } ]
  } ]
}
```

- Decision approved

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/review/1029697355810648065

{
  "category" : "CR",
  "old_status" : {
    "code" : "ToBeApproved"
  },
  "status" : {
    "code" : "ToBeApproved"
  },
  "cos" : [ {
    "id" : "1073343385248509953",
    "approval_comments" : [ {
      "result" : "Approved",
      "comment" : "Decision approved"
    } ]
  } ]
}
```

- Decision rejected

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/review/1029697355810648065

{
  "category" : "CR",
  "old_status" : {
```

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```
    "code" : "ToBeApproved"
  },
  "status" : {
    "code" : "ToBeApproved"
  },
  "cos" : [ {
    "id" : "1073444323946328065",
    "approval_comments" : [ {
      "result" : "Rejected",
      "comment" : "Decision rejected"
    } ]
  } ]
}
```

- Decision transferred

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/review/1029697355810648065

{
  "category" : "CR",
  "old_status" : {
    "code" : "ToBeApproved"
  },
  "status" : {
    "code" : "ToBeApproved"
  },
  "cos" : [ {
    "id" : "1073444323946328065",
    "approval_comments" : [ {
      "other_user_id" : "09d25f5d3f80d2881fd7c008ecf1622b"
    } ]
  } ]
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : {
    "id" : "1073571791578767361",
    "number" : "CR20241211782420",
    "state" : "In use",
    "title" : "21-CR-10x",
    "category" : "CR",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account."
    },
    "modified_by" : {
      "id" : "system",
      "name" : "System"
    },
    "created_time" : "1733889061000",
    "modified_time" : "1733889106000",
    "plan_end_date" : "1735574400000",
    "plan_start_date" : "1733673600000",
    "need_approval" : "true",
    "status" : {
      "display_value" : "To be decided",
      "code" : "ToBeApproved"
    },
    "description" : "<p><strong>[Background]</strong></p><p>1</p><p><strong>[Benefits]</strong></p><p><br></p><p><strong>[Details]</strong></p>",
    "cos" : [ {
      "after_change" : "{\"view\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
```

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Fault Locating] \"},\"execute\":{\"description\":\" [Fault Symptom] x [Environment Information]
 [Onsite Fault Locating R&D Engineer]
 [Preliminary Fault Locating] \"},\"snapshot\":{\"found_iteration\":null,\"type\":\"bug\",\"test_failures_times\":\"0\",\"number\":\"BUG20241209780441\",\"convolution_actual_hours\":null,\"path\":\"/1072968362439385089\",\"workload_man_day\":null,\"id\":\"1072968362439385089\",\"state\":\"In use\",\"sys_no_repair_reason\":null,\"module\":null,\"priority\":null,\"found_env\":null,\"sys_activation_reason\":null,\"assignee\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test Account\",\"role_id\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"close_type\":null,\"status\":{\"id\":\"1072203303913304105\",\"belonging\":\"START\",\"space_id\":\"1072203303493873664\",\"name\":\"Analysis\",\"status_category\":\"\",\"code\":\"Analyse\",\"definition_type\":\"5\",\"belong_definition_type\":3,\"belong_scope\":\"\",\"display_value\":\"Analysis\",\"position\":2,\"displayable\":1,\"editable\":1,\"deletable\":1,\"mutable\":1,\"title_py\":\"fx\",\"builtin\":false,\"label\":\"\",\"description\":\"\",\"created_by\":\"a360371833bf4c558f796fd707b44daf\",\"created_userinfo\":null,\"created_on\":\"\",\"created_date\":1733591588000,\"modified_date\":1733591588000,\"modified_by\":\"a360371833bf4c558f796fd707b44daf\",\"category_code\":[],\"editing_fields\":[],\"associate\":null,\"linkage_node_fields\":false},\"tenant_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"plan_pi\":null,\"repair_solution\":null,\"plan_end_date\":null,\"expected_repair_date\":null,\"plan_iteration\":null,\"cascade_delete\":\"none\",\"issue_opinion_id\":null,\"modified_by\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test 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Account\",\"role_id\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project 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Account\",\"role_id\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"}],\"sys_return_reason\":null,\"issue_review_id\":null,\"created_date\":1733745192388,\"category\":\"Bug\",\"setup\":true,\"collaborative_status\":[],\"parent_status\":\"no\"}}",
    "review_complete_time" : "1733889106000",
    "review_phase_result" : "Approved",
    "before_change" : "{\"view\":{\"description\":\" [Fault Symptom]
 [Environment Information]
 [Onsite Fault Locating R&D Engineer]
 [Preliminary Fault Locating] \"}}",
    "category" : "CO",
    "ccbs" : [{
      "id" : "a360371833bf4c558f796fd707b44daf",

```
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account."
    } ],
    "change_type" : "Modify",
    "co2review" : "1073571791578767361",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1733889060000",
    "description" : "<p>[Fault Symptom]</p><p>x</p><p>[Environment Information]</p><p><br></
p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary Fault Locating]</p>",
    "id" : "1073571790225190913",
    "issue_id" : "1072968362439385089",
    "issue_number" : "BUG20241209780441",
    "issue_category" : "Bug",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_date" : "1733889106000",
    "opinions" : [ { } ],
    "opinion_comments" : [ {
      "category" : "Opinion",
      "co_id" : "1073571790225190913",
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account."
      },
      "created_date" : "1733889106000",
      "curr_owner" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account."
      },
      "id" : "1073571982662868993",
      "modified_date" : "1733889106000",
      "review_comments" : "Review approved"
    } ],
    "approver" : [ "a360371833bf4c558f796fd707b44daf" ],
    "reviewer" : [ "a360371833bf4c558f796fd707b44daf" ],
    "status" : "ToBeApproved"
  } ],
  "cc" : [ {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account."
  } ]
 }
}
```


Status code: 400


```
{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

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Error Codes

See **Error Codes**.

4.17.7 Deleting a Change Review

Function

This API is used to delete a change review.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:review:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/review/{review_id}

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Table 4-1135 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
review_id	Yes	String	**Definition** Review ID, which uniquely identifies a review. Obtain the value by calling the API for **querying the review list (BR/GR)**. The value of **id** in the response body is the review ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-1136 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition** Review type. **Constraints** N/A **Range** • **BR**: baseline review • **CR**: change review • **GR**: general review **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1137 Response body parameters

Parameter	Type	Description
id	String	**Definition** ID of the changed work item. **Range** N/A
operator	String	**Definition** ID of the work item changer. **Range** N/A

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Parameter	Type	Description
state	String	**Definition** Discard flag of a work item. The options are as follows. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
operate_time	String	**Definition** Work item change time. **Range** N/A

Status code: 400

Table 4-1138 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Deleting a change review

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/review/1029697355810648065?category=CR
```

Example Responses

Status code: 200

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```
{
  "id" : "1073382258376749056",
  "operator" : "a360371833bf4c558f796fd707b44daf",
  "operate_time" : "1733887244396"
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.17.8 Creating a BR/GR

Function

This API is used to create a baseline review (BR) or general review (GR).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workflow:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

POST /v1/ipdprojectservice/projects/{project_id}/process-instances

Table 4-1139 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1140 Query Parameters

Parameter	Mandatory	Type	Description
operate_type	No	String	Operation type.
domain_id	No	String	Domain ID of the proposing project.

Request Parameters

Table 4-1141 Request body parameters

Parameter	Mandatory	Type	Description
title	Yes	String	Title.
description	Yes	String	Description.
category	Yes	String	Type.
need_approval	No	Boolean	Whether the review needs to be approved by the decision-maker.

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Parameter	Mandatory	Type	Description
plan_end_date	No	String	Planned completion date (timestamp). It cannot be earlier than the planned start date.
plan_start_date	No	String	Planned start date (timestamp). It cannot be later than the planned completion date.
status	Yes	String	Status.
cc	No	Array of strings	Cc recipient list.
attachWikis	No	Array of strings	Associated wikis.
attachDocuments	No	Array of strings	Associated files.
ccbs	No	Array of **ccbs** objects	Decision-maker.
opinions	No	Array of **opinions** objects	Review expert.
cos	No	Array of **cos** objects	Review object.
local_attachment_names	No	Array of strings	Associated file name.

Table 4-1142 ccbs

Parameter	Mandatory	Type	Description
user_id	No	String	User ID.

Table 4-1143 opinions

Parameter	Mandatory	Type	Description
user_id	No	String	User ID.
curr_owner	No	String	Current owner.

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Table 4-1144 cos

Parameter	Mandatory	Type	Description
number	No	String	Work item ID.
issue_id	No	String	Work item ID.
issue_category	No	String	Work item type.
change_type	No	String	Change type.
before_change	No	String	Content before change
after_change	No	String	Content after change

Response Parameters

Status code: 200

Table 4-1145 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	Response message.
result	**result** object	Returned result.

Table 4-1146 result

Parameter	Type	Description
cc	String	Cc recipient list.
approver	String	Approver ID.
description	String	Review description. The list API does not return the description.
closed_time	String	Review completion time.
reviewer	String	Reviewer ID, separated by commas (,).

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Parameter	Type	Description
type	String	Type.
title	String	Review title.
modified_date	String	Timestamp when a review is last modified.
created_by	**created_by** object	Review creator.
domain_id	String	Tenant ID.
number	String	Review No.
need_approval	Boolean	Whether approval is required.
br2co	String	Baseline review object.
modified_by	**modified_by** object	Last modifier of a review.
approval_time	String	Review time.
plan_end_date	String	Planned completion time.
id	String	Review ID.
state	String	Review status. The options are **In use** and **Discarded**.
created_date	String	Creation time.
category	String	Type.
plan_start_date	String	Planned start time.
review_config	**review_config** object	Review configuration.
status	**status** object	Review status.
stage	String	Phase.
opinions	Array of **opinions** objects	List of change object review expert IDs (used when a change review is created).
opinion_comments	Array of strings	Review comments.
attachments	Array of strings	Attachment.
wikis	Array of strings	Associated wikis.
associatedocuments	Array of strings	Associated documents.
cos	Array of **cos** objects	Review object list.

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Parameter	Type	Description
approval_phase_result	String	Review result.
ccbs	Array of **ccbs** objects	Approval information list.

Table 4-1147 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Table 4-1148 created_by

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.

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Parameter	Type	Description
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.
owner	String	Owner
ccbId	String	Review ID.
has_removed	String	Whether the user has been removed from the project.

Table 4-1149 modified_by

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.

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Parameter	Type	Description
owner	String	Owner
ccbId	String	Review ID.
has_removed	String	Whether the user is removed from the project.

Table 4-1150 review_config

Parameter	Type	Description
approval_type	Integer	Review type.
ratio_value	String	Approval progress.
skip_decisioning	Boolean	Whether to skip decision-making.
approval_roles	String	Decision-making role.
review_roles	String	Approval role.

Table 4-1151 status

Parameter	Type	Description
code	String	Status code.
name	String	Status.

Table 4-1152 opinions

Parameter	Type	Description
id	String	id
type	String	Type.
state	String	Status.
status	String	Status
region	String	Region
category	String	Type
title	String	Title.
rounds	String	Scope.
opinion	String	Observer.

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Parameter	Type	Description
description	String	Description.
modified_by	String	Modifier.
modified_date	String	Modification time.
created_by	**created_by** object	Creator.
created_date	String	Creation time.
tenant_id	String	Tenant ID.
domain_id	String	Project ID.
issue_category	String	Work item type.
issue_id	String	Work item ID.
curr_owner	**curr_owner** object	Current owner.
co_id	String	Change object ID.
user_id	String	User ID.
opinion_issue_id	String	Review work item ID.
opinion_issue_category	String	Review work item type.

Table 4-1153 created_by

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	Alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.

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Parameter	Type	Description
opinion	String	Comments.
description	String	Description.
owner	String	Owner.
ccbId	String	Review ID.
has_removed	String	Whether the user is removed from the project.

Table 4-1154 curr_owner

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	Alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.
owner	String	Owner.
ccbId	String	Review ID.
has_removed	String	Whether the user is removed from the project.

Table 4-1155 cos

Parameter	Type	Description
region	String	Region.

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Parameter	Type	Description
category	String	Work item type of the change object. The value is fixed to **CO**.
title	String	Review title.
status	String	Change object status.
assignee	**assignee** object	Cc recipient of a review.
description	String	Review description.
number	String	ID of the work item associated with the change object.
order	String	Sorting order.
co2cr	String	Associated change review flag.
co2br	String	Associated baseline review flag.
co2gr	String	Associated general review flag.
id	String	Approval object ID.
type	String	Review type.
state	String	Review status. The options are **In use** and **Discarded**.
before_change	String	Work item content before change.
after_change	String	Change object content after modification.
modified_by	String	Last modifier of a review.
modified_date	String	Last modification time of a review.
created_by	String	Review creator.
created_date	String	Review creation time.
tenant_id	String	ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body.
status_map	String	Work item status.
domain_id	String	Tenant ID.
source_system	String	Source system.
source_system_link	String	Source system link.

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Parameter	Type	Description
issue_category	String	Type of the work item associated with the change object.
issue_id	String	Work item ID.
issue_status	**issue_status** object	Work item status.
issue_severity	String	Work item severity.
issue_priority	**issue_priority** object	Work item priority.
domain_title	String	Project name.
src_domain_title	String	Proposing project name.
issue_assignee_name	String	Owner alias.
change_reason	String	Review reason.
change_type	String	Review type.
source_system_id	String	Source system ID.
change_description	String	Review description.
has_deleted	String	Deleted or not.
approval_phase_result	String	Review result.
approval_complete_time	String	Review completion time.
ccb_description	String	Review description.
actual_ccb	String	Review expert.
ccbs	String	Approval information list.
ccb_info	String	Review information.
opinions	String	List of change object review expert IDs (used when a change review is created).
opinion_comments	String	Review comments.
approval_time	String	Approval time.
src_domain_id	String	Tenant ID.
cross_domain	String	Cross-tenant or not.

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Parameter	Type	Description
domain_moved	String	Whether the project is migrated.
reviewer	Array of strings	Review expert.
approver	Array of strings	Decision-maker.
rounds	String	Rounds of reviews.
last_round_result	String	Result of the latest round of decision-making.

Table 4-1156 assignee

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Review information.
description	String	Description.
owner	String	Current handler.
ccbId	String	Review object ID.
has_removed	String	Whether the user has been removed from the project.

Table 4-1157 issue_status

Parameter	Type	Description
id	String	Status ID.

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Parameter	Type	Description
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
space_id	String	Space ID.
name	String	Status name.
code	String	Status code.
definition_type	String	Definition type.
belong_definition_type	Integer	Field definition type.
display_value	String	Display value.
position	Integer	Sorting position.
displayable	Integer	Displayable or not.
editable	Integer	Editable or not.
deletable	Integer	Deletable or not.
mutable	Integer	Changeable or not.
title_py	String	Status name abbreviation.
created_by	String	Status creator.
created_date	String	Status creation time.
modified_date	String	Latest modification time of a status.
modified_by	String	Last modifier of a status.
linkage_node_fields	Boolean	Whether to link the node field.

Table 4-1158 issue_priority

Parameter	Type	Description
id	String	id
display_value	String	Display name.
value	String	Value.
code	String	Code.
value_py	String	Value (initial letters)

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Parameter	Type	Description
sequence	Integer	Sequence.
level	Integer	Level.
domain_id	String	Project ID.
belong_definition_type	String	Definition severity.

Table 4-1159 ccbs

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar ID.
region	String	Region.
opinion	String	Review information.
description	String	Description.
owner	String	Current handler.
ccbId	String	Review object ID.
has_removed	String	The user has been removed from the project.

Status code: 400

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Table 4-1160 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Creating a BR

```
POST https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/process-instances

{
  "title" : "BR",
  "description" : "<p><strong>[Background]</strong></p><p><br></p><p><strong>[Benefits]</strong></
p><p><br></p><p><strong>[Details]</strong></p><br>",
  "category" : "BR",
  "need_approval" : true,
  "status" : "ToBeReviewed",
  "cc" : [ ],
  "attachWikis" : [ ],
  "attachDocuments" : [ ],
  "ccbs" : [ {
    "user_id" : "09d25f5d3f80d2881fd7c008ecf1622b"
  } ],
  "opinions" : [ {
    "user_id" : "09d25f5d3f80d2881fd7c008ecf1622b",
    "curr_owner" : "09d25f5d3f80d2881fd7c008ecf1622b"
  } ],
  "cos" : [ {
    "number" : "IR20250716625228",
    "issue_id" : "1152322333787987968",
    "issue_category" : "IR",
    "change_type" : "Modify",
    "before_change" : "{\"view\":{}}",
    "after_change" : "{\"view\":{},\"execute\":{}}"
  } ],
  "local_attachment_names" : [ ]
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "result" : {
    "id" : "1073568012549795840",
    "number" : "CR20241211782294",
    "state" : "In use",
    "title" : "21-CR-10x",
```

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```
  "category" : "CR",
  "created_by" : {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account"
  },
  "modified_by" : {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account"
  },
  "created_time" : "1733888160000",
  "modified_time" : "1733888160000",
  "plan_end_date" : "1735574400000",
  "plan_start_date" : "1733673600000",
  "need_approval" : "true",
  "status" : {
    "display_value" : "Pending review",
    "code" : "ToBeReviewed"
  },
  "description" : "<p><strong>[Background]</strong></p><p>1</p><p><strong>[Benefits]</strong></
p><p><br></p><p><strong>[Details]</strong></p>",
  "cos" : [ {
    "after_change" : "{\"view\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
Fault Locating]</p>\"},\"execute\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
Fault Locating]</p>\"},\"snapshot\":{\"found_iteration\":null,\"type\":\"bug\",\"test_failures_times
\":\"0\",\"number\":\"BUG20241209780441\",\"convolution_actual_hours\":null,\"path\":\"/
1072968362439385089\",\"workload_man_day\":null,\"id\":\"1072968362439385089\",\"state\":\"Working
\",\"sys_no_repair_reason\":null,\"module\":null,\"priority\":null,\"found_env\":null,\"sys_activation_reason
\":null,\"assignee\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id
\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a
\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"close_type\":null,\"status\":
{\"id\":\"1072203303913304105\",\"belonging\":\"START\",\"space_id\":\"1072203303493873664\",\"name
\":\"Analyzing\",\"status_category\":\"\",\"code\":\"Analyse\",\"definition_type
\":\"5\",\"belong_definition_type\":3,\"belong_scope\":\"\",\"display_value\":\"Analyzing\",\"position
\":2,\"displayable\":1,\"editable\":1,\"deletable\":1,\"mutable\":1,\"title_py\":\"fx\",\"builtin\":false,\"label
\":\"\",\"description\":\"\",\"created_by\":\"a360371833bf4c558f796fd707b44daf\",\"created_userinfo
\":null,\"created_on\":\"\",\"created_date\":1733591588000,\"modified_date\":1733591588000,\"modified_by
\":\"a360371833bf4c558f796fd707b44daf\",\"category_code\":[],\"editing_fields\":[],\"associate
\":null,\"linkage_node_fields\":false},\"tenant_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"plan_pi
\":null,\"repair_solution\":null,\"plan_end_date\":null,\"expected_repair_date\":null,\"plan_iteration
\":null,\"cascade_delete\":\"none\",\"issue_opinion_id\":null,\"modified_by\":{\"watcher\":0,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":\"devcloud_devcloud_01\",\"nick_name\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"position_float
\":\"10000000000.0000000000\",\"belong_inside\":\"1\",\"regression_failure_number\":\"0\",\"src_domain\":
{\"id\":\"1072203303493873664\",\"name\":\"beta-m2-wyl-021\",\"title\":\"beta-m2-wyl-021\",\"project_id
\":\"b248a70bc6434e6bad54c8e73a222dca\",\"parent_id\":\"\",\"category\":\"Project\",\"created_by
\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10002\",\"children\":[]},\"domain_id\":{\"id
\":\"1072203303493873664\",\"name\":\"beta-m2-wyl-021\",\"title\":\"beta-m2-wyl-021\",\"project_id
\":\"b248a70bc6434e6bad54c8e73a222dca\",\"parent_id\":\"\",\"category\":\"Project\",\"created_by
\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10002\",\"children\":[]},\"send_from
\":\"\",\"send_to\":\"\",\"stay_days\":2,\"test_report\":null,\"assigned_cc\":null,\"return_reason
\":null,\"submit_time\":1733745191791,\"workitem2label\":null,\"close_time\":null,\"modified_date
\":1733887226000,\"created_by\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf
\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id
\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name
\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
admin,Project manager\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"activate_times
```


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\":\"0\",\"status_modified_date\":1733745192515,\"parent_id\":null,\"business_domain\":null,\"found_pi
\":null,\"region\":\"example\",\"reason_analysis\":null,\"link\":\"\",\"is_suspended\":null,\"origin_id
\":\"1072968362439385089\",\"change_status\":{\"id\":\"1072203303896526856\",\"display_value\":\"
unchange\",\"value\":\"unchange\",\"code\":\"unchange\",\"value_py\":\"unchange\",\"sequence\":1.0,\"level
\":1,\"domain_id\":\"1072203303493873664\",\"belong_definition_type\":\"5\"},\"title\":\"21-
Bug-01\",\"sum_workload_man_day\":null,\"plan_start_date\":null,\"severity\":{\"id
\":\"1072203303896526851\",\"display_value\":\" Info\",\"value\":\"Info\",\"code\":\"Info\",\"value_py\":\"ts
\",\"sequence\":1.0,\"level\":1,\"domain_id\":\"1072203303493873664\",\"belong_definition_type
\":\"5\"},\"convolution_plan_hours\":null,\"submitted_by\":[{\"watcher\":0,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":4091,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":\"devcloud_devcloud_01\",\"nick_name\":\"Test account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
manager,Project admin\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"}],\"sys_return_reason
\":null,\"issue_review_id\":null,\"created_date\":1733745192388,\"category\":\"Bug\",\"setup
\":true,\"collaborative_status\":[],\"parent_status\":\"no\"}}",
    "before_change" : "{\"view\":{\"description\":\" [Fault Symptom]
 [Environment
Information]
 [Onsite Fault Locating R&D Engineer]
 [Preliminary
Fault Locating] \"}}",
    "category" : "CO",
    "ccbs" : [{
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    }],
    "change_type" : "Modify",
    "co2review" : "1073568012549795840",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1733888157000",
    "description" : " [Fault Symptom] x [Environment Information]
</
p> [Onsite Fault Locating R&D Engineer]
 [Preliminary Fault Locating] ",
    "id" : "1073568002185670656",
    "issue_id" : "1072968362439385089",
    "issue_number" : "BUG20241209780441",
    "issue_category" : "Bug",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_date" : "1733888157000",
    "opinions" : [{ }],
    "approver" : ["a360371833bf4c558f796fd707b44daf"],
    "reviewer" : ["a360371833bf4c558f796fd707b44daf"],
    "status" : "ToBeReviewed"
  }],
  "cc" : [{
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account"
  }]
 }
}

Status code: 400

{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}

SDK Sample Code

The SDK sample code is as follows.

Java

Creating a BR

```
package com.huaweicloud.sdk.test;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateIpdProcessInstanceSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdProcessInstanceRequest request = new CreateIpdProcessInstanceRequest();
        request.withProjectId("{project_id}");
        CreateProcessInstanceReq body = new CreateProcessInstanceReq();
        List<CreateProcessInstanceReqCos> listbodyCos = new ArrayList<>();
        listbodyCos.add(
            new CreateProcessInstanceReqCos()
                .withNumber("IR20250716625228")
                .withIssueId("1152322333787987968")
                .withIssueCategory("IR")
                .withChangeType("Modify")
                .withBeforeChange("{"view":{}}")
                .withAfterChange("{"view":{},"execute":{}}")
        );
        List<CreateProcessInstanceReqOpinions> listbodyOpinions = new ArrayList<>();
        listbodyOpinions.add(
            new CreateProcessInstanceReqOpinions()
                .withUserId("09d25f5d3f80d2881fd7c008ecf1622b")
                .withCurrOwner("09d25f5d3f80d2881fd7c008ecf1622b")
        );
        List<CreateProcessInstanceReqCcbs> listbodyCcbs = new ArrayList<>();
        listbodyCcbs.add(
            new CreateProcessInstanceReqCcbs()
                .withUserId("09d25f5d3f80d2881fd7c008ecf1622b")
        );
        body.withCos(listbodyCos);
        body.withOpinions(listbodyOpinions);
        body.withCcbs(listbodyCcbs);
        body.withStatus("ToBeReviewed");
        body.withNeedApproval(true);
        body.withCategory("BR");
        body.withDescription("<p><strong>[Background]</strong></p><p><br></p><p><strong>[Benefits]</strong></p><p><br></p><p><strong>[Details]</strong></p><br>");
        body.withTitle("BR");
        request.withBody(body);
        try {
            CreateIpdProcessInstanceResponse response = client.createIpdProcessInstance(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
```

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```
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Creating a BR

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdProcessInstanceRequest()
        request.project_id = "{project_id}"
        listCosbody = [
            CreateProcessInstanceReqCos(
                number="IR20250716625228",
                issue_id="1152322333787987968",
                issue_category="IR",
                change_type="Modify",
                before_change="{"view":{}}",
                after_change="{"view":{},"execute":{}}"
            )
        ]
        listOpinionsbody = [
            CreateProcessInstanceReqOpinions(
                user_id="09d25f5d3f80d2881fd7c008ecf1622b",
                curr_owner="09d25f5d3f80d2881fd7c008ecf1622b"
            )
        ]
        listCcbsbody = [
            CreateProcessInstanceReqCcbs(
                user_id="09d25f5d3f80d2881fd7c008ecf1622b"
            )
        ]
        request.body = CreateProcessInstanceReq(
            cos=listCosbody,
            opinions=listOpinionsbody,
            ccbs=listCcbsbody,
```

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```
            status="ToBeReviewed",
            need_approval=True,
            category="BR",
            description="<p><strong>[Background]</strong></p><p><br></p><p><strong>[Benefits]</
strong></p><p><br></p><p><strong>[Details]</strong></p><br>",
            title="BR"
        )
        response = client.create_ipd_process_instance(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Creating a BR

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIpdProcessInstanceRequest{}
    request.ProjectId = "{project_id}"
    numberCos:= "IR20250716625228"
    issueIdCos:= "1152322333787987968"
    issueCategoryCos:= "IR"
    changeTypeCos:= "Modify"
    beforeChangeCos:= "{"view":{}}"
    afterChangeCos:= "{"view":{},"execute":{}}"
```

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```
    var listCosbody = []model.CreateProcessInstanceReqCos{
        {
            Number: &numberCos,
            IssueId: &issueIdCos,
            IssueCategory: &issueCategoryCos,
            ChangeType: &changeTypeCos,
            BeforeChange: &beforeChangeCos,
            AfterChange: &afterChangeCos,
        },
    }
    userIdOpinions:= "09d25f5d3f80d2881fd7c008ecf1622b"
    currOwnerOpinions:= "09d25f5d3f80d2881fd7c008ecf1622b"
    var listOpinionsbody = []model.CreateProcessInstanceReqOpinions{
        {
            UserId: &userIdOpinions,
            CurrOwner: &currOwnerOpinions,
        },
    }
    userIdCcbs:= "09d25f5d3f80d2881fd7c008ecf1622b"
    var listCcbsbody = []model.CreateProcessInstanceReqCcbs{
        {
            UserId: &userIdCcbs,
        },
    }
    needApprovalCreateProcessInstanceReq:= true
    request.Body = &model.CreateProcessInstanceReq{
        Cos: &listCosbody,
        Opinions: &listOpinionsbody,
        Ccbs: &listCcbsbody,
        Status: "ToBeReviewed",
        NeedApproval: &needApprovalCreateProcessInstanceReq,
        Category: "BR",
        Description: "<p><strong>[Background]</strong></p><p><br></p><p><strong>[Benefits]</strong></
p><p><br></p><p><strong>[Details]</strong></p><br>",
        Title: "BR",
    }
    response, err := client.CreateIpdProcessInstance(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.17.9 Querying Review Details (BRs/GRs)

Function

This API is used to query review form details, which is applicable to baseline reviews (BRs) and general reviews (GRs).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workflow:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/process-instances/{review_id}

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Table 4-1161 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
review_id	Yes	String	**Definition** Review ID, which uniquely identifies a review. Obtain the value by calling the API for **querying the review list (BR/GR)**. The value of **id** in the response body is the review ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1162 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Response message. **Range** N/A
result	**ReviewEntity** object	Review details

Table 4-1163 ReviewEntity

Parameter	Type	Description
id	String	**Definition** Review ID. **Range** N/A
number	String	**Definition** Review No. **Range** N/A
state	String	**Definition** Lifecycle of a review. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin
title	String	**Definition** Review title. **Range** N/A

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Parameter	Type	Description
category	String	**Definition** Review type. **Range** **CR** (change review), **BR** (baseline review), and **GR** (general review).
created_by	**UserEntity** object	**Definition** Review creator.
modified_by	**UserEntity** object	**Definition** Last modifier of a review.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a review.
created_time	String	**Definition** Creation timestamp of a review. **Range** N/A
modified_time	String	**Definition** Timestamp when a review was last modified. **Range** N/A
plan_end_date	String	**Definition** Timestamp of the planned completion date. **Range** N/A
plan_start_date	String	**Definition** Timestamp of the planned start date. **Range** N/A
close_time	String	**Definition** Review completion time. **Range** N/A

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Parameter	Type	Description
need_approval	String	**Definition** Whether the review requires approver approval. **Range** • **true**: Required. • **false**: Not required.
status	**StatusEntity** object	**Definition** Review status.
description	String	**Definition** Review description. **Range** N/A
closed_time	String	**Definition** Review completion time. **Range** N/A
approver	String	**Definition** Decision-maker ID. **Range** N/A
reviewer	String	**Definition** ID of a review expert. **Range** N/A
cos	Array of **COEntity** objects	**Definition** Review object list.
ccbs	Array of **CcbEntity** objects	**Definition** Approval information lists.
old_status	**StatusEntity** object	**Definition** Historical review status.
cc	Array of **UserEntity** objects	**Definition** List of CC recipients.

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Parameter	Type	Description
ccb_user	Array of **UserObject** objects	**Definition** CCB user list. **Range** N/A
ccb_opinion	String	**Definition** CCB opinion. **Range** N/A
ccb_id	String	**Definition** CCB ID. **Range** N/A
reviewer_user	Array of **UserObject** objects	**Definition** Reviewer list. **Range** N/A
processor	Array of **UserObject** objects	**Definition** Handler list. **Range** N/A
processorNickNames	String	**Definition** Handler nickname. **Range** N/A
reviewResult	**ReviewResultVO** object	**Definition** Review result statistics.
reviewResultTxt	String	**Definition** Review result text. **Range** N/A
approvedResult	**ReviewResultVO** object	**Definition** Approval result statistics.
approvedResultTxt	String	**Definition** Approval result text. **Range** N/A

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Table 4-1164 COEntity

Parameter	Type	Description
after_change	String	**Definition** Change object content after change. **Range** N/A
review_complete_time	String	**Definition** Review completion time of the change object. **Range** N/A
review_phase_result	String	**Definition** Review result of the change object. **Range** • **Approved** • **Rejected** (for CRs) • **TurnBacked** (for BRs/GRs)
review_time	String	**Definition** Review time of the change object. **Range** N/A
before_change	String	**Definition** Work item content before change. **Range** N/A
category	String	**Definition** Work item type of the change object. The value is fixed to **CO**. **Range** N/A
ccb_info	**CcbEntity** object	**Definition** Actual decision-maker of the change object. **Range** N/A

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Parameter	Type	Description
ccbs	Array of **UserEntity** objects	**Definition** List of decision makers for the change object. The list contains only one element. **Range** N/A
change_type	String	**Definition** Change type. **Range** **Modify** **Move**: migrate **Delete** **ModifyPlan**: move it into or out of the baselined release or sprint
co2review	String	**Definition** ID of the review associated with a change object. **Range** N/A
created_by	String	**Definition** Creator ID of a change object. **Range** N/A
created_date	String	**Definition** Time when a change object is created. **Range** N/A
description	String	**Definition** Description of a change object. **Range** N/A
id	String	**Definition** Change object ID. **Range** N/A

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Parameter	Type	Description
issue_id	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_number	String	**Definition** ID of the work item associated with a change object. **Range** N/A
issue_category	String	**Definition** Type of the work item associated with a change object. **Range** N/A
modified_by	String	**Definition** ID of the last modifier of a change object. **Range** N/A
modified_date	String	**Definition** Last modification time of a change object. **Range** N/A
opinions	Array of **UserEntity** objects	**Definition** List of change object review expert IDs (used when a change review is created). **Range** N/A
opinion_comments	Array of **ReviewOpinionEntity** objects	**Definition** Review comments on a change object. **Range** N/A

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Parameter	Type	Description
review_comments	Array of **ReviewCommentEntity** objects	**Definition** Review comments on a change object (for review update). **Range** N/A
approval_comments	Array of **ReviewCommentEntity** objects	**Definition** Decision-making comments on a change object (for decision-making update). **Range** N/A
reviewer	Array of strings	**Definition** List of change object review expert IDs. **Range** N/A
approver	Array of strings	**Definition** Array of change object decision-maker IDs. **Range** N/A
status	String	**Definition** Change object status. **Range** • **Canceled**: The review form is canceled. • **ToBeCommitted**: The review form is saved. • **ToBeReviewed**: The review form is to be reviewed. • **ToBeApproved**: The review form is to be decided. • **Approved**: The review form is approved. • **TurnBacked**: The review form is turned back. • **Rejected**: The review form is rejected. • **End**: The review form is completed. • **Passed**: The review form is passed.

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Table 4-1165 CcbEntity

Parameter	Type	Description
approval_time	String	**Definition** Approval time. **Range** N/A
category	String	**Definition** Work item type. The value is fixed at **CCB**. **Range** N/A
ccb2review	String	**Definition** ID of the review associated with an approval object. **Range** N/A
co_id	String	**Definition** ID of the associated change object. **Range** N/A
id	String	**Definition** Approval object ID. **Range** N/A
owner	**UserEntity** object	**Definition** Decision-maker. **Range** N/A
approval_comments	String	**Definition** Approval comments. **Range** N/A

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Table 4-1166 ReviewOpinionEntity

Parameter	Type	Description
category	String	**Definition** Review comment object type. The value is fixed at **Opinion**. **Range** N/A
co_id	String	**Definition** ID of the change object associated with the review comment object. **Range** N/A
created_by	**UserEntity** object	**Definition** Review expert who creates the review comment. **Range** N/A
created_date	String	**Definition** Review comment creation time. **Range** N/A
curr_owner	**UserEntity** object	**Definition** Current review expert. **Range** N/A
id	String	**Definition** Review comment object ID. **Range** N/A
modified_date	String	**Definition** Last modification time of a review comment. **Range** N/A
review_comments	String	**Definition** Review comment. **Range** N/A

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Table 4-1167 ReviewCommentEntity

Parameter	Type	Description
id	String	**Definition** Review comment object ID. **Range** N/A
user_id	String	**Definition** Reviewer ID. **Range** N/A
other_user_id	String	**Definition** ID of the review receiver (during review transfer). **Range** N/A
result	String	**Definition** Review result. **Range** N/A
comment	String	**Definition** Review comment. **Range** N/A

Table 4-1168 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Table 4-1169 StatusEntity

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Unique status ID. **Range** N/A
created_by	String	**Definition** Status creator. **Range** N/A
created_time	String	**Definition** Status creation time. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** Status modifier. **Range** N/A
modified_time	String	**Definition** Latest modification time of a status. **Range** N/A
category_code	Array of strings	**Definition** Work items that use the status.

Table 4-1170 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

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Table 4-1171 UserObject

Parameter	Type	Description
watcher	String	**Definition** Favorited or not. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	String	**Definition** Digital ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
role_id	String	**Definition** Role ID. **Range** N/A

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Parameter	Type	Description
role_name	String	**Definition** Role name. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A
region	String	**Definition** Region. **Range** N/A
opinion	String	**Definition** Comments. **Range** N/A
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Owner. **Range** N/A
ccbId	String	**Definition** Decision-maker ID. **Range** N/A
has_removed	String	**Definition** Whether the user is removed from the project. **Range** N/A

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Table 4-1172 ReviewResultVO

Parameter	Type	Description
approvedNum	String	**Definition** Number of items approved. **Range** N/A
rejectedNum	String	**Definition** Number of items rejected. **Range** N/A
pendingNum	String	**Definition** Number of items pending. **Range** N/A
turnBackedNum	String	**Definition** Number of items returned. **Range** N/A

Status code: 400

Table 4-1173 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying review details

```
GET https://{endpoint}/v1/ipdprojectservice/projects/ac069b11a3524163ad6348953e2fe93e/process-instances/1161002910334492672
```

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Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "description" : "<p><strong>[Background]</strong></p><p><br></p><p><strong>[Benefits]</strong></
p><p><br></p><p><strong>[Details]</strong></p><br>",
    "type" : "process_instance",
    "title" : "Local Test To-Dos",
    "multi_parent_id" : "",
    "handing_cos" : "1161002905490071553",
    "review_type" : null,
    "domain_id" : "1160948493073686528",
    "number" : "CR20250809729340",
    "review_times" : "1",
    "need_approval" : true,
    "plan_end_date" : null,
    "id" : "1161002910334492672",
    "state" : "In use",
    "plan_start_date" : null,
    "review_config" : {
      "approval_type" : 0,
      "ratio_value" : null,
      "skip_decisioning" : false,
      "approval_roles" : "241ea3ccd25a441a91d948e62dc1302c,c0619788f1f5421b81c30083a0b3a26a",
      "review_roles" :
"bbc80e4c2f5c4a3bb3f73faac744a883,107b73ca7834402ba15903bf182e6445,abeaf42190af4c338c3948d96fe
3d871,0a353d02a6f1479c903bd8871762fea1,ef5c37da34164cc0bf38920f5b87b6c8,241ea3ccd25a441a91d94
8e62dc1302c,c0619788f1f5421b81c30083a0b3a26a,f40bc5b8e36249798072576276ee6dd5,ae187d881b5741
67bc1eaacae70aaf77,5604e92f78aa4946955ada93cc0df4d5,5c428ed6459b4111bcae2de8ea5f4336"
    },
    "cc" : null,
    "approver" : null,
    "sub_id" : "",
    "cr2co" : "1161002905490071553",
    "closed_time" : "1754734770727",
    "reviewer" : null,
    "modified_date" : "1754734770763",
    "created_by" : {
      "watcher" : null,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : null,
      "user_name" : "devcloud_devcloud_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : null,
      "nick_name" : "Sam 1",
      "role_id" : "241ea3ccd25a441a91d948e62dc1302c,c0619788f1f5421b81c30083a0b3a26a",
      "role_name" : "Project admin,Project manager",
      "image_id" : null,
      "region" : null,
      "opinion" : null,
      "description" : null,
      "owner" : null,
      "ccbId" : null,
      "has_removed" : null
    },
    "modified_by" : {
      "watcher" : null,
      "user_id" : "system",
      "user_num_id" : null,
      "user_name" : "System",
      "domain_id" : null,
      "domain_name" : null,
      "nick_name" : null,
      "role_id" : null,
      "role_name" : null,
```


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```
  "image_id" : null,
  "region" : null,
  "opinion" : null,
  "description" : null,
  "owner" : null,
  "ccbId" : "system",
  "has_removed" : null
},
"created_date" : "1754734264212",
"category" : "CR",
"status" : {
  "code" : "End",
  "name" : "Completed"
},
"stage" : "finish_phase",
"approval_time" : "1754734770000",
"ccb_user" : [ {
  "watcher" : null,
  "user_id" : "09d25f5d3f80d2881fd7c008ecf1622b",
  "user_num_id" : null,
  "user_name" : "child01",
  "domain_id" : null,
  "domain_name" : null,
  "nick_name" : "child01update1",
  "role_id" : null,
  "role_name" : null,
  "image_id" : null,
  "region" : null,
  "opinion" : null,
  "description" : null,
  "owner" : null,
  "ccbId" : null,
  "has_removed" : "removed"
} ],
"ccb_description" : "1",
"ccb_opinion" : "Approved",
"ccb_id" : "1161005033818333184",
"opinion_issue_id" : null,
"opinion_issue_category" : null,
"ccbs" : [ ],
"opinions" : [ ],
"opinion_comments" : [ ],
"attachments" : [ ],
"wikis" : [ ],
"associatedocuments" : [ ],
"cos" : [ {
  "region" : "example",
  "category" : "CO",
  "title" : "111",
  "status" : "Start",
  "assignee" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : null,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : null,
    "nick_name" : "Sam 1",
    "role_id" : "241ea3ccd25a441a91d948e62dc1302c,c0619788f1f5421b81c30083a0b3a26a",
    "role_name" : "Project admin,Project manager",
    "image_id" : null,
    "region" : null,
    "opinion" : null,
    "description" : null,
    "owner" : null,
    "ccbId" : null,
    "has_removed" : null
  },
  "description" : "<p>[Background]</p><p><br></p>[Value]</p> <p><br></p><p>[Details]</p>",
```


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```
    "number" : "IR20250809726533",
    "order" : null,
    "co2cr" : "1161002910334492672",
    "co2br" : "",
    "co2gr" : "",
    "id" : "1161002905490071553",
    "type" : "associate_issue",
    "state" : "In use",
    "before_change" : "{\"view\":{\"title\":\"111\"}}",
    "after_change" : "{\"view\":{\"title\":\"111222\"},\"execute\":{\"title\":\"111222\"},\"snapshot\":
{\"develop_owner\":null,\"type\":\"requirement\",\"plan_test_end_date\":null,\"number
\":\"IR20250809726533\",\"convolution_actual_hours\":null,\"path\":\"/
1160948836415217664\",\"workload_man_day\":null,\"children\":null,\"id
\":\"1160948836415217664\",\"state\":null,\"need_break\":{\"id\":\"1160948493527855172\",\"display_value
\":\"Yes\",\"value\":\"yes\",\"code\":\"yes\",\"value_py\":\"yes\",\"sequence\":1.0,\"level\":1,\"domain_id
\":\"1160948493073686528\",\"belong_definition_type\":\"5\"},\"collaborative_history\":null,\"baseline\":{\"id
\":\"1160948493527855122\",\"display_value\":\"baselined\",\"value\":\"baselined\",\"code\":\"baselined
\",\"value_py\":\"baselined\",\"sequence\":2.0,\"level\":1,\"domain_id
\":\"1160948493073686528\",\"belong_definition_type\":\"5\"},\"priority\":{\"id
\":\"1160948493527855125\",\"display_value\":\"medium\",\"value\":\"medium\",\"code\":\"medium
\",\"value_py\":\"2\",\"sequence\":2.0,\"level\":1,\"domain_id
\":\"1160948493073686528\",\"belong_definition_type\":\"5\"},\"break_status\":{\"id
\":\"1160948493527855130\",\"display_value\":\"Not broken down\",\"value\":\"undecomposed\",\"code
\":\"undecomposed\",\"value_py\":\"undecomposed\",\"sequence\":2.0,\"level\":1,\"domain_id
\":\"1160948493073686528\",\"belong_definition_type\":\"5\"},\"assignee\":{\"watcher\":null,\"user_id
\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id\":null,\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name
\":null,\"nick_name\":\"Sam 1\",\"role_id
\":\"241ea3ccd25a441a91d948e62dc1302c,c0619788f1f5421b81c30083a0b3a26a\",\"role_name\":\"Project
admin,Project manager\",\"image_id\":null,\"region\":null,\"opinion\":null,\"description\":null,\"owner
\":null,\"ccbId\":null,\"has_removed\":null},\"status\":{\"id\":\"1160948493544632339\",\"belonging
\":\"START\",\"space_id\":\"1160948493073686528\",\"name\":\"Initial\",\"code\":\"Start\",\"definition_type
\":\"5\",\"belong_definition_type\":3,\"display_value\":\"Initial\",\"position\":1,\"displayable\":1,\"editable
\":1,\"deletable\":1,\"mutable\":1,\"title_py\":\"cs\",\"created_by\":\"a360371833bf4c558f796fd707b44daf
\",\"created_date\":\"1754721290241\",\"modified_date\":\"1754721290241\",\"modified_by
\":\"a360371833bf4c558f796fd707b44daf\",\"linkage_node_fields\":false},\"tenant_id
\":\"4e919d73499648e3b0292cd3cbef806a\",\"plan_pi\":null,\"plan_dev_end_date\":null,\"plan_end_date
\":null,\"cascade_delete\":\"none\",\"issue_opinion_id\":null,\"modified_by\":{\"user_id
\":\"d309f40ed61845f8acec5a2cadd53855\",\"user_name\":\"g00833904\",\"domain_id
\":\"4e919d73499648e3b0292cd3cbef806a\",\"nick_name\":\"g00833904-1\",\"role_id
\":\"5c428ed6459b4111bcae2de8ea5f4336\",\"role_name\":\"Viewer\",\"role_alias_name\":\"Viewer
\",\"role_code\":\"Viewer\"},\"closed_flag\":null,\"collaborative_status\":[],\"position_float
\":\"10000000000.0000000000\",\"domain_id\":{\"id\":\"1160948493073686528\",\"name\":\"IPD-System
Device_Review Pending Optimization\",\"title\":\"IPD-System Device_Review Pending Optimization
\",\"project_id\":\"ac069b11a3524163ad6348953e2fe93e\",\"parent_id\":\"\",\"category\":\"Project
\",\"created_by\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10001\",\"children\":
[]},\"upstream_change_flag\":null,\"stay_days\":0,\"ir2feature\":\"\",\"related_network_security\":{\"id
\":\"1160948493527855110\",\"display_value\":\"No\",\"value\":\"no\",\"code\":\"no\",\"value_py\":\"no
\",\"sequence\":2.0,\"level\":1,\"domain_id\":\"1160948493073686528\",\"belong_definition_type
\":\"5\"},\"assigned_cc\":null,\"workitem2label\":null,\"close_time\":null,\"modified_date
\":1754733590564,\"created_by\":{\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_name
\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a\",\"nick_name\":\"Sam
1\",\"role_id\":\"241ea3ccd25a441a91d948e62dc1302c,c0619788f1f5421b81c30083a0b3a26a\",\"role_name
\":\"Project admin,Project manager\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code
\":\"Project manager,project_admin\"},\"status_modified_date\":1754721372084,\"important
\":null,\"collaboratives\":null,\"parent_id\":null,\"business_domain\":{\"id
\":\"1160948493527855144\",\"display_value\":\"Software\",\"value\":\"software\",\"code\":\"software
\",\"value_py\":\"rj\",\"sequence\":0.0,\"level\":1,\"domain_id
\":\"1160948493073686528\",\"belong_definition_type\":\"5\"},\"region\":\"example\",\"link
\":\"\",\"is_suspended\":null,\"change_status\":{\"id\":\"1160948493527855115\",\"display_value\":\"changed
\",\"value\":\"changed\",\"code\":\"changed\",\"value_py\":\"changed\",\"sequence\":3.0,\"level
\":1,\"domain_id\":\"1160948493073686528\",\"belong_definition_type\":\"5\"},\"title
\":\"111222\",\"sum_workload_man_day\":null,\"ir2rr\":\"\",\"plan_start_date\":null,\"convolution_plan_hours
\":null,\"no_break_reason\":null,\"submitted_by\":[{\"user_id\":\"a360371833bf4c558f796fd707b44daf
\",\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a
\",\"nick_name\":\"Sam 1\",\"role_id
\":\"241ea3ccd25a441a91d948e62dc1302c,c0619788f1f5421b81c30083a0b3a26a\",\"role_name\":\"Project
admin,Project manager\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code\":\"Project
manager,project_admin\"}],\"test_owner\":null,\"issue_review_id\":null,\"created_date
```


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\":1754721371983,\"category\":\"IR\",\"setup\":true,\"inherit_button\":\"hide\",\"parent_status\":\"no\"}}",
"modified_by" : "a360371833bf4c558f796fd707b44daf",
"modified_date" : "1754915897118",
"created_by" : "a360371833bf4c558f796fd707b44daf",
"created_date" : "1754734263058",
"tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
"status_map" : null,
"domain_id" : "1160948493073686528",
"source_system" : null,
"source_system_link" : null,
"issue_category" : "IR",
"issue_id" : "1160948836415217664",
"issue_status" : {
"id" : "1160948493544632339",
"belonging" : "START",
"space_id" : "1160948493073686528",
"name" : "Initial",
"code" : "Start",
"definition_type" : "5",
"belong_definition_type" : 3,
"display_value" : "Initial",
"position" : 1,
"displayable" : 1,
"editable" : 1,
"deletable" : 1,
"mutable" : 1,
"title_py" : "cs",
"created_by" : "a360371833bf4c558f796fd707b44daf",
"created_date" : "1754721290241",
"modified_date" : "1754721290241",
"modified_by" : "a360371833bf4c558f796fd707b44daf",
"linkage_node_fields" : false
},
"issue_severity" : null,
"issue_priority" : {
"id" : "1160948493527855125",
"display_value" : "Medium",
"value" : "Medium",
"code" : "Medium",
"value_py" : "2",
"sequence" : 2,
"level" : 1,
"domain_id" : "1160948493073686528",
"belong_definition_type" : "5"
},
"domain_title" : "IPD-System Device_Review Pending Optimization",
"src_domain_title" : null,
"issue_assignee_name" : "Sam 1",
"change_reason" : null,
"change_type" : "Modify",
"source_system_id" : null,
"change_description" : null,
"has_deleted" : null,
"approval_phase_result" : "Approved",
"approval_complete_time" : "1754734539092",
"ccb_description" : null,
"actual_ccb" : null,
"ccbs" : null,
"ccb_info" : null,
"opinions" : null,
"opinion_comments" : null,
"approval_time" : null,
"src_domain_id" : null,
"cross_domain" : null,
"domain_moved" : null,
"reviewer" : ["84603a65a4ce4ef2b5eccbc3b7caf1e7", "d309f40ed61845f8acec5a2cadd53855",
"a360371833bf4c558f796fd707b44daf"],
"approver" : ["a360371833bf4c558f796fd707b44daf"],
"rounds" : "1",

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```
    "last_round_result" : "Approved"
  } ],
  "approval_phase_result" : null
 }
}
```

Status code: 400

```
{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.17.10 Deleting a Change Review (BR/GR)

Function

This API is used to delete change reviews (CRs), which are applicable to baseline reviews (BRs) and general reviews (GRs).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workflow:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

DELETE /v1/ipdprojectservice/projects/{project_id}/process-instances/{review_id}

Table 4-1174 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
review_id	Yes	String	**Definition** Review ID, which uniquely identifies a review. Obtain the value by calling the API for **querying the review list (BR/GR)**. The value of **id** in the response body is the review ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1175 Response body parameters

Parameter	Type	Description
status	String	Request status.
message	String	Returned information.

Status code: 400

Table 4-1176 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Deleting a BR/GR

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/b811b0bef58b479d9b5e4ab856b349ab/process-instances/1156653026593779712
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "null"
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "Insufficient permissions."
}
```

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Status Codes

Status Code	Description
200	OK
400	Common error response.

Error Codes

See **Error Codes**.

4.17.11 Modifying a Change Review (BR/GR)

Function

This API is used to modify change reviews (CRs), which are applicable to baseline reviews (BRs) and general reviews (GRs).

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workflow:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/ipdprojectservice/projects/{project_id}/process-instances/{review_id}

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Table 4-1177 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
review_id	Yes	String	**Definition** Review ID, which uniquely identifies a review. Obtain the value by calling the API for **querying the review list (BR/GR)**. The value of **id** in the response body is the review ID. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

Table 4-1178 Query Parameters

Parameter	Mandatory	Type	Description
domain_id	No	String	Domain ID of the proposing project.

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Request Parameters

Table 4-1179 Request body parameters

Parameter	Mandatory	Type	Description
old_status	No	String	Unique status ID, which indicates the current review status. **ToBeReviewed** **ToBeApproved** **Committed** **Canceled** **ReCommitted** **Rejected**
status	Yes	String	Unique status ID, which indicates the status to which the current review will be transferred. **ToBeReviewed** **ToBeApproved** **Committed** **Canceled** **ReCommitted** **Rejected**
title	No	String	**Definition** Review title. **Constraints** 1 to 256 characters. **Range** N/A **Default Value** N/A
description	No	String	Description.
plan_start_date	No	Long	Planned start time.
plan_end_date	No	Long	Planned end time.
ccbs	No	Array of **ccbs** objects	Decision-maker.

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Parameter	Mandatory	Type	Description
opinions	No	Array of **opinions** objects	Review expert.
cc	No	Array of **cc** objects	Cc recipient.
cos	No	Array of **cos** objects	Associated objects.

Table 4-1180 ccbs

Parameter	Mandatory	Type	Description
user_id	No	String	User ID.

Table 4-1181 opinions

Parameter	Mandatory	Type	Description
user_id	No	String	User ID.

Table 4-1182 cc

Parameter	Mandatory	Type	Description
user_id	No	String	User ID.

Table 4-1183 cos

Parameter	Mandatory	Type	Description
number	No	String	Associated object No.
issue_id	No	String	Associated object ID.
issue_category	No	String	Associated object type.
change_type	No	String	Change type.
before_change	No	String	Data before the change.
after_change	No	String	Data after the change.

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Response Parameters

Status code: 200

Table 4-1184 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	Response message.
result	**result** object	Returned result.

Table 4-1185 result

Parameter	Type	Description
cc	String	Cc recipient list.
approver	String	Approver ID.
description	String	Review description. The list API does not return the description.
closed_time	String	Review completion time.
reviewer	String	Reviewer ID, separated by commas (,).
type	String	Type.
title	String	Review title.
modified_date	String	Timestamp when a review is last modified.
created_by	**created_by** object	Review creator.
domain_id	String	Tenant ID.
number	String	Review No.
need_approval	Boolean	Whether approval is required.
br2co	String	Baseline review object.
modified_by	**modified_by** object	Last modifier of a review.
approval_time	String	Review time.

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Parameter	Type	Description
plan_end_date	String	Planned completion time.
id	String	Review ID.
state	String	Review status. The options are **In use** and **Discarded**.
created_date	String	Creation time.
category	String	Type.
plan_start_date	String	Planned start time.
review_config	**review_config** object	Review configuration.
status	**status** object	Review status.
stage	String	Phase.
opinions	Array of **opinions** objects	List of change object review expert IDs (used when a change review is created).
opinion_comments	Array of strings	Review comments.
attachments	Array of strings	Attachment.
wikis	Array of strings	Associated wikis.
associatedocuments	Array of strings	Associated documents.
cos	Array of **cos** objects	Review object list.
approval_phase_result	String	Review result.
ccbs	Array of **ccbs** objects	Approval information list.

Table 4-1186 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A

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Parameter	Type	Description
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Table 4-1187 created_by

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.

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Parameter	Type	Description
owner	String	Owner
ccbId	String	Review ID.
has_removed	String	Whether the user has been removed from the project.

Table 4-1188 modified_by

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.
owner	String	Owner
ccbId	String	Review ID.
has_removed	String	Whether the user is removed from the project.

Table 4-1189 review_config

Parameter	Type	Description
approval_type	Integer	Review type.
ratio_value	String	Approval progress.
skip_decisioning	Boolean	Whether to skip decision-making.

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Parameter	Type	Description
approval_roles	String	Decision-making role.
review_roles	String	Approval role.

Table 4-1190 status

Parameter	Type	Description
code	String	Status code.
name	String	Status.

Table 4-1191 opinions

Parameter	Type	Description
id	String	id
type	String	Type.
state	String	Status.
status	String	Status
region	String	Region
category	String	Type
title	String	Title.
rounds	String	Scope.
opinion	String	Observer.
description	String	Description.
modified_by	String	Modifier.
modified_date	String	Modification time.
created_by	**created_by** object	Creator.
created_date	String	Creation time.
tenant_id	String	Tenant ID.
domain_id	String	Project ID.
issue_category	String	Work item type.
issue_id	String	Work item ID.

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Parameter	Type	Description
curr_owner	curr_owner object	Current owner.
co_id	String	Change object ID.
user_id	String	User ID.
opinion_issue_id	String	Review work item ID.
opinion_issue_category	String	Review work item type.

Table 4-1192 created_by

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	Alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.
owner	String	Owner.
ccbId	String	Review ID.
has_removed	String	Whether the user is removed from the project.

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Table 4-1193 curr_owner

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	Alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Comments.
description	String	Description.
owner	String	Owner.
ccbId	String	Review ID.
has_removed	String	Whether the user is removed from the project.

Table 4-1194 cos

Parameter	Type	Description
region	String	Region.
category	String	Work item type of the change object. The value is fixed to **CO**.
title	String	Review title.
status	String	Change object status.
assignee	**assignee** object	Cc recipient of a review.
description	String	Review description.
number	String	ID of the work item associated with the change object.
order	String	Sorting order.

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Parameter	Type	Description
co2cr	String	Associated change review flag.
co2br	String	Associated baseline review flag.
co2gr	String	Associated general review flag.
id	String	Approval object ID.
type	String	Review type.
state	String	Review status. The options are **In use** and **Discarded**.
before_change	String	Work item content before change.
after_change	String	Change object content after modification.
modified_by	String	Last modifier of a review.
modified_date	String	Last modification time of a review.
created_by	String	Review creator.
created_date	String	Review creation time.
tenant_id	String	ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body.
status_map	String	Work item status.
domain_id	String	Tenant ID.
source_system	String	Source system.
source_system_link	String	Source system link.
issue_category	String	Type of the work item associated with the change object.
issue_id	String	Work item ID.
issue_status	**issue_status** object	Work item status.
issue_severity	String	Work item severity.
issue_priority	**issue_priority** object	Work item priority.
domain_title	String	Project name.
src_domain_title	String	Proposing project name.

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Parameter	Type	Description
issue_assignee_name	String	Owner alias.
change_reason	String	Review reason.
change_type	String	Review type.
source_system_id	String	Source system ID.
change_description	String	Review description.
has_deleted	String	Deleted or not.
approval_phase_result	String	Review result.
approval_complete_time	String	Review completion time.
ccb_description	String	Review description.
actual_ccb	String	Review expert.
ccbs	String	Approval information list.
ccb_info	String	Review information.
opinions	String	List of change object review expert IDs (used when a change review is created).
opinion_comments	String	Review comments.
approval_time	String	Approval time.
src_domain_id	String	Tenant ID.
cross_domain	String	Cross-tenant or not.
domain_moved	String	Whether the project is migrated.
reviewer	Array of strings	Review expert.
approver	Array of strings	Decision-maker.
rounds	String	Rounds of reviews.
last_round_result	String	Result of the latest round of decision-making.

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Table 4-1195 assignee

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar.
region	String	Region.
opinion	String	Review information.
description	String	Description.
owner	String	Current handler.
ccbId	String	Review object ID.
has_removed	String	Whether the user has been removed from the project.

Table 4-1196 issue_status

Parameter	Type	Description
id	String	Status ID.
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**
space_id	String	Space ID.
name	String	Status name.
code	String	Status code.
definition_type	String	Definition type.

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Parameter	Type	Description
belong_definition_type	Integer	Field definition type.
display_value	String	Display value.
position	Integer	Sorting position.
displayable	Integer	Displayable or not.
editable	Integer	Editable or not.
deletable	Integer	Deletable or not.
mutable	Integer	Changeable or not.
title_py	String	Status name abbreviation.
created_by	String	Status creator.
created_date	String	Status creation time.
modified_date	String	Latest modification time of a status.
modified_by	String	Last modifier of a status.
linkage_node_fields	Boolean	Whether to link the node field.

Table 4-1197 issue_priority

Parameter	Type	Description
id	String	id
display_value	String	Display name.
value	String	Value.
code	String	Code.
value_py	String	Value (initial letters)
sequence	Integer	Sequence.
level	Integer	Level.
domain_id	String	Project ID.
belong_definition_type	String	Definition severity.

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Table 4-1198 ccbs

Parameter	Type	Description
watcher	String	Observer.
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	User alias.
role_id	String	Role ID.
role_name	String	Role name.
image_id	String	User avatar ID.
region	String	Region.
opinion	String	Review information.
description	String	Description.
owner	String	Current handler.
ccbId	String	Review object ID.
has_removed	String	The user has been removed from the project.

Status code: 400

Table 4-1199 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

Modifying a BR/GR

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/process-instances/{id}

{
  "old_status" : "Committed",
  "status" : "Committed",
  "title" : "test21222-updat11e"
}
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "result" : {
    "id" : "1073568012549795840",
    "number" : "CR20241211782294",
    "state" : "In use",
    "title" : "21-CR-10x",
    "category" : "CR",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account."
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account."
    },
    "created_time" : "1733888160000",
    "modified_time" : "1733888160000",
    "plan_end_date" : "1735574400000",
    "plan_start_date" : "1733673600000",
    "need_approval" : "true",
    "status" : {
      "display_value" : "To be reviewed",
      "code" : "ToBeReviewed"
    },
    "description" : "<p><strong>[Background]</strong></p><p>1</p><p><strong>[Benefits]</strong></
p><p><br></p><p><strong>[Details]</strong></p>",
    "cos" : [ {
      "after_change" : "{\"view\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
Fault Locating]</p>\"},\"execute\":{\"description\":\"<p>[Fault Symptom]</p><p>x</p><p>[Environment
Information]</p><p><br></p><p>[Onsite Fault Locating R&D Engineer]</p><p><br></p><p>[Preliminary
Fault Locating]</p>\"},\"snapshot\":{\"found_iteration\":null,\"type\":\"bug\",\"test_failures_times
\":\"0\",\"number\":\"BUG20241209780441\",\"convolution_actual_hours\":null,\"path\":\"/
1072968362439385089\",\"workload_man_day\":null,\"id\":\"1072968362439385089\",\"state\":\"In use
\",\"sys_no_repair_reason\":null,\"module\":null,\"priority\":null,\"found_env\":null,\"sys_activation_reason
\":null,\"assignee\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id
\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a
\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test Account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code
\":\"Project manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"close_type
\":null,\"status\":{\"id\":\"1072203303913304105\",\"belonging\":\"START\",\"space_id
\":\"1072203303493873664\",\"name\":\"Analysis\",\"status_category\":\"\",\"code\":\"Analyse
\",\"definition_type\":\"5\",\"belong_definition_type\":3,\"belong_scope\":\"\",\"display_value\":\"Analysis
\",\"position\":2,\"displayable\":1,\"editable\":1,\"deletable\":1,\"mutable\":1,\"title_py\":\"fx\",\"builtin
\":false,\"label\":\"\",\"description\":\"\",\"created_by\":\"a360371833bf4c558f796fd707b44daf
\",\"created_userinfo\":null,\"created_on\":\"\",\"created_date\":1733591588000,\"modified_date
\":1733591588000,\"modified_by\":\"a360371833bf4c558f796fd707b44daf\",\"category_code\":
[],\"editing_fields\":[],\"associate\":null,\"linkage_node_fields\":false},\"tenant_id
```


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\":\"4e919d73499648e3b0292cd3cbef806a\",\"plan_pi\":null,\"repair_solution\":null,\"plan_end_date
\":null,\"expected_repair_date\":null,\"plan_iteration\":null,\"cascade_delete\":\"none\",\"issue_opinion_id
\":null,\"modified_by\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id
\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a
\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test Account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code
\":\"Project manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"position_float
\":\"10000000000.0000000000\",\"belong_inside\":\"1\",\"regression_failure_number\":\"0\",\"src_domain\":
{\"id\":\"1072203303493873664\",\"name\":\"beta-m2-wyl-021\",\"title\":\"beta-m2-wyl-021\",\"project_id
\":\"b248a70bc6434e6bad54c8e73a222dca\",\"parent_id\":\"\",\"category\":\"Project\",\"created_by
\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10002\",\"children\":[]},\"domain_id\":{\"id
\":\"1072203303493873664\",\"name\":\"beta-m2-wyl-021\",\"title\":\"beta-m2-wyl-021\",\"project_id
\":\"b248a70bc6434e6bad54c8e73a222dca\",\"parent_id\":\"\",\"category\":\"Project\",\"created_by
\":\"a360371833bf4c558f796fd707b44daf\",\"model_id\":\"10002\",\"children\":[]},\"send_from
\":\"\",\"send_to\":\"\",\"stay_days\":2,\"test_report\":null,\"assigned_cc\":null,\"return_reason
\":null,\"submit_time\":1733745191791,\"workitem2label\":null,\"close_time\":null,\"modified_date
\":1733887226000,\"created_by\":{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf
\",\"user_num_id\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id
\":\"4e919d73499648e3b0292cd3cbef806a\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name
\":\"Test Account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code
\":\"Project manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed\":\"\"},\"activate_times
\":\"0\",\"status_modified_date\":1733745192515,\"parent_id\":null,\"business_domain\":null,\"found_pi
\":null,\"region\":\"example\",\"reason_analysis\":null,\"link\":\"\",\"is_suspended\":null,\"origin_id
\":\"1072968362439385089\",\"change_status\":{\"id\":\"1072203303896526856\",\"display_value
\":\"unchange\",\"value\":\"unchange\",\"code\":\"unchange\",\"value_py\":\"unchange\",\"sequence
\":1.0,\"level\":1,\"domain_id\":\"1072203303493873664\",\"belong_definition_type\":\"5\"},\"title\":\"21-
Bug-01\",\"sum_workload_man_day\":null,\"plan_start_date\":null,\"severity\":{\"id
\":\"1072203303896526851\",\"display_value\":\"Information\",\"value\":\"Information\",\"code
\":\"Information\",\"value_py\":\"ts\",\"sequence\":1.0,\"level\":1,\"domain_id
\":\"1072203303493873664\",\"belong_definition_type\":\"5\"},\"convolution_plan_hours
\":null,\"submitted_by\":[{\"watcher\":0,\"user_id\":\"a360371833bf4c558f796fd707b44daf\",\"user_num_id
\":4091,\"user_name\":\"devcloud_devcloud_01\",\"domain_id\":\"4e919d73499648e3b0292cd3cbef806a
\",\"domain_name\":\"devcloud_devcloud_01\",\"nick_name\":\"Test Account\",\"role_id
\":\"257bbf34272649dd909bb35dfe27d126,05d9444b66cc4d5090ef3180a3096c91\",\"role_name\":\"Project
Manager,Project Administrator\",\"role_alias_name\":\"Project manager,Project admin\",\"role_code
\":\"Project manager,project_admin\",\"image_id\":\"\",\"region\":\"\",\"has_removed
\":\"\"}],\"sys_return_reason\":null,\"issue_review_id\":null,\"created_date\":1733745192388,\"category
\":\"Bug\",\"setup\":true,\"collaborative_status\":[],\"parent_status\":\"no\"}}",
    "before_change" : "{\"view\":{\"description\":\" [Fault Symptom]
 [Environment
Information]
 [Onsite Fault Locating R&D Engineer]
 [Preliminary
Fault Locating] \"}}",
    "category" : "CO",
    "ccbs" : [{
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account."
    }],
    "change_type" : "Modify",
    "co2review" : "1073568012549795840",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1733888157000",
    "description" : " [Fault Symptom] x [Environment Information]
</
p> [Onsite Fault Locating R&D Engineer]
 [Preliminary Fault Locating] ",
    "id" : "1073568002185670656",
    "issue_id" : "1072968362439385089",
    "issue_number" : "BUG20241209780441",
    "issue_category" : "Bug",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_date" : "1733888157000",
    "opinions" : [{ }],
    "approver" : ["a360371833bf4c558f796fd707b44daf"],
    "reviewer" : ["a360371833bf4c558f796fd707b44daf"],
    "status" : "ToBeReviewed"
  }],
  "cc" : [{
    "id" : "a360371833bf4c558f796fd707b44daf",

```
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account."
   } ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "Insufficient permissions."
}
```

Status Codes

Status Code	Description
200	OK
400	Common error response.

Error Codes

See **Error Codes**.

4.17.12 Querying the Review List (BRs/GRs)

Function

This API is used to query the list of BRs or GRs.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workflow:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

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URI

POST /v1/ipdprojectservice/projects/{project_id}/process-instances/query

Table 4-1200 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1201 Request body parameters

Parameter	Mandatory	Type	Description
filter	Yes	Array of **filter** objects	**Definition** Filter condition array. The logical relationship between multiple objects is AND.
sort	No	Array of **sort** objects	**Definition** Sorting parameter array. Multiple objects are sorted by object sequence.
page	No	**page** object	**Definition** Pagination parameter object.

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Table 4-1202 filter

Parameter	Mandatory	Type	Description
field	No	**field** object	**Definition** Filter field. **Constraints** Filter fields for query. **Range** Obtain the filter field name through the filter on the GUI. The options are as follows: **category**: type **status** **created_date**: creation time **approver**: decision maker **cc**: Cc recipient **Default Value** N/A

Table 4-1203 field

Parameter	Mandatory	Type	Description
values	No	Array of strings	**Definition** Filter value array. **Constraints** This field is used together with the filter field and operator. You are advised to use it based on the filter parameters on the GUI. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
operator	No	String	**Definition** Operator. **Constraints** N/A **Range** • **||** indicates a logical OR relationship between the query target and the values. • **!** indicates a logical NOT relationship. • **=** indicates an EQUALS relationship, generally applied when the **values** array contains a single element. • **<>**, **<**, and **>** represent range, less-than, and greater-than relationships, respectively. These are typically used for datetime or integer comparisons and include boundary values. **Default Value** N/A

Table 4-1204 sort

Parameter	Mandatory	Type	Description
field	No	String	**Definition** Sorting field. **Constraints** Sorting field of the query object. **Range** Sorting identifier fields in the table header. **Default Value** N/A

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Parameter	Mandatory	Type	Description
asc	No	Boolean	**Definition** Ascending or not. **Constraints** N/A **Range** **true** and **false** **Default Value** N/A

Table 4-1205 page

Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition** Page index. **Constraints** N/A **Range** 1 to 10000 **Default Value** 1
page_size	No	Integer	**Definition** Page size. **Constraints** N/A **Range** 5 to 200 **Default Value** 200

Response Parameters

Status code: 200

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Table 4-1206 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Request information. **Range** N/A
result	**result** object	**Definition** Request result. **Range** N/A

Table 4-1207 result

Parameter	Type	Description
total	Integer	**Definition** Total number. **Range** N/A
process_instances	Array of **process_instances** objects	**Definition** Review list. **Range** N/A

Table 4-1208 process_instances

Parameter	Type	Description
cc	String	**Definition** Cc recipient. Multiple values are separated by commas (,). **Range** N/A

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Parameter	Type	Description
approver	String	**Definition** Review decision-maker. **Range** N/A
closed_time	String	**Definition** Review completion time. **Range** N/A
reviewer	String	**Definition** Review expert. **Range** N/A
type	String	**Definition** Review type. **Range** N/A
title	String	**Definition** Title. **Range** N/A
modified_date	String	**Definition** Modification time. **Range** N/A
created_by	**UserVO** object	**Definition** Creator. **Range** N/A
domain_id	String	**Definition** Project space ID. **Range** N/A
number	String	**Definition** Review No. **Range** N/A

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Parameter	Type	Description
need_approval	String	**Definition** Whether the review needs to be approved by the decision-maker. **Range** N/A
modified_by	**UserVO** object	**Definition** Modifier. **Range** N/A
approval_time	String	**Definition** Approval time. **Range** N/A
plan_end_date	String	**Definition** Planned end time. **Range** N/A
id	String	**Definition** Review ID. **Range** N/A
state	String	**Definition** Review data status. **Range** N/A
created_date	String	**Definition** Creation time. **Range** N/A
category	String	**Definition** Review type. **Range** N/A

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Parameter	Type	Description
plan_start_date	String	**Definition** Planned start time. **Range** N/A
status	**status** object	**Definition** Review status. **Range** N/A
ccbs	Array of **UserObject** objects	**Definition** Decision-maker object list. **Range** N/A
opinions	Array of **opinions** objects	**Definition** List of opinion objects. **Range** N/A

Table 4-1209 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A

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Parameter	Type	Description
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Table 4-1210 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A

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Parameter	Type	Description
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Table 4-1211 status

Parameter	Type	Description
code	String	**Definition** Status code. **Range** N/A
name	String	**Definition** Status name. **Range** N/A

Table 4-1212 UserObject

Parameter	Type	Description
watcher	String	**Definition** Favorited or not. **Range** N/A

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Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	String	**Definition** Digital ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** Alias. **Range** N/A
role_id	String	**Definition** Role ID. **Range** N/A
role_name	String	**Definition** Role name. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A

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Parameter	Type	Description
region	String	**Definition** Region. **Range** N/A
opinion	String	**Definition** Comments. **Range** N/A
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Owner. **Range** N/A
ccbId	String	**Definition** Decision-maker ID. **Range** N/A
has_removed	String	**Definition** Whether the user is removed from the project. **Range** N/A

Table 4-1213 opinions

Parameter	Type	Description
id	String	**Definition** Primary key of an opinion. **Range** N/A

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Parameter	Type	Description
type	String	**Definition** Type. **Range** N/A
state	String	**Definition** Data status. **Range** N/A
status	String	**Definition** Opinion status. **Range** N/A
region	String	**Definition** Region. **Range** N/A
category	String	**Definition** Type. **Range** N/A
title	String	**Definition** Title. **Range** N/A
rounds	String	**Definition** Rounds of reviews. **Range** N/A
opinion	String	**Definition** Review comment. **Range** N/A
description	String	**Definition** Description. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** Modifier. **Range** N/A
modified_date	String	**Definition** Modification time. **Range** N/A
created_by	**UserObject** object	**Definition** Creator. **Range** N/A
created_date	String	**Definition** Creation time. **Range** N/A
tenant_id	String	**Definition** Tenant ID. **Range** N/A
domain_id	String	**Definition** Project space ID. **Range** N/A
issue_category	String	**Definition** Object type. **Range** N/A
issue_id	String	**Definition** Object ID. **Range** N/A
curr_owner	**UserObject** object	**Definition** Current owner. **Range** N/A

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Parameter	Type	Description
co_id	String	**Definition** Change object ID. **Range** N/A
user_id	String	**Definition** User ID. **Range** N/A
opinion_issue_id	String	**Definition** Review work item ID. **Range** N/A
opinion_issue_category	String	**Definition** Review work item type. **Range** N/A

Status code: 400

Table 4-1214 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying the BR list

```
POST https://{endpoint}/v1/ipdprojectservice/projects/b811b0bef58b479d9b5e4ab856b349ab/process-instances/query
```

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Body parameters:

```
{
   "filter": [
      {
         "category": {
            "values": [
               "BR"
            ],
            "operator": "||"
         }
      },
      {
         "status": {
            "values": [
               "Committed",
               "ToBeReviewed",
               "ToBeApproved",
               "Rejected",
               "Passed",
               "Canceled",
               "TurnBacked"
            ],
            "operator": "||"
         }
      },
      {
         "created_date": {
            "values": [
               1753632000000,
               1753718399999
            ],
            "operator": "<>"
         }
      },
      {
         "approver": {
            "values": [
               "0dcd2224fcda451ebd983b0e8dd9e6ee"
            ],
            "operator": "||"
         }
      }
   ],
   "page": {
      "page_no": 1,
      "page_size": 20
   }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "null",
  "result" : {
    "total" : 1,
    "process_instances" : [ {
      "cc" :
"a360371833bf4c558f796fd707b44daf,68dbd07f132e4005a263156085df6af3,29da565ad02d4aa081568420a
15fcaa9,0dcd2224fcda451ebd983b0e8dd9e6ee",
      "approver" : "0dcd2224fcda451ebd983b0e8dd9e6ee",
      "closed_time" : "null",
      "reviewer" : "68dbd07f132e4005a263156085df6af3",
      "type" : "process_instance",
      "title" : "test",
      "modified_date" : "1753694214029",
      "created_by" : {
```

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```
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : "null",
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "null",
    "nick_name" : "Sam 1",
    "role_id" : "0c4370789ec246bb9f5480077e1119d5,0438be11ed284528ae79c8afd054ecf1",
    "role_name" : "Project manager and project administrator"
  },
  "domain_id" : "1155517541943128064",
  "number" : "BR20250728665812",
  "need_approval" : "yes",
  "modified_by" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : "null",
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "null",
    "nick_name" : "Sam 1",
    "role_id" : "0c4370789ec246bb9f5480077e1119d5,0438be11ed284528ae79c8afd054ecf1",
    "role_name" : "Project manager and project administrator"
  },
  "approval_time" : "null",
  "plan_end_date" : "null",
  "id" : "1156640623684530177",
  "state" : "In use",
  "created_date" : "1753694214029",
  "category" : "BR",
  "plan_start_date" : "null",
  "status" : {
    "code" : "ToBeReviewed",
    "name" : "Pending review"
  },
  "ccbs" : [ {
    "watcher" : "null",
    "user_id" : "0dcd2224fcda451ebd983b0e8dd9e6ee",
    "user_num_id" : "null",
    "user_name" : "devcloud_devcloud_01/build_admin_trust",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "null",
    "nick_name" : "null",
    "role_id" : "b91711747d2043afa8fbd7657960c74f",
    "role_name" : "Developer",
    "image_id" : "null",
    "region" : "null",
    "opinion" : "null",
    "description" : "null",
    "owner" : "null",
    "ccbId" : "null",
    "has_removed" : "null"
  } ],
  "opinions" : [ {
    "id" : "null",
    "type" : "null",
    "state" : "null",
    "status" : "null",
    "region" : "null",
    "category" : "null",
    "title" : "null",
    "rounds" : "null",
    "opinion" : "null",
    "description" : "null",
    "modified_by" : "null",
    "modified_date" : "null",
    "created_by" : {
      "watcher" : "null",
      "user_id" : "68dbd07f132e4005a263156085df6af3",
      "user_num_id" : "null",
      "user_name" : "devcloud_devcloud_01/deploy_admin_trust",
```


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```
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "domain_name" : "null",
        "nick_name" : "null",
        "role_id" : "b91711747d2043afa8fbd7657960c74f",
        "role_name" : "Developer",
        "image_id" : "null",
        "region" : "null",
        "opinion" : "null",
        "description" : "null",
        "owner" : "null",
        "ccbId" : "null",
        "has_removed" : "null"
      },
      "created_date" : "null",
      "tenant_id" : "null",
      "domain_id" : "null",
      "issue_category" : "null",
      "issue_id" : "null",
      "curr_owner" : {
        "watcher" : "null",
        "user_id" : "68dbd07f132e4005a263156085df6af3",
        "user_num_id" : "null",
        "user_name" : "devcloud_devcloud_01/deploy_admin_trust",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "domain_name" : "null",
        "nick_name" : "null",
        "role_id" : "b91711747d2043afa8fbd7657960c74f",
        "role_name" : "Developer",
        "image_id" : "null",
        "region" : "null",
        "opinion" : "null",
        "description" : "null",
        "owner" : "null",
        "ccbId" : "null",
        "has_removed" : "null"
      },
      "co_id" : "null",
      "user_id" : "null",
      "opinion_issue_id" : "null",
      "opinion_issue_category" : "null"
    } ]
  } ]
 }
}
```


Status code: 400


```
{
 "error_code" : "PM.02174103",
 "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

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Error Codes

See **Error Codes**.

4.17.13 Querying the Approver/Reviewer

Function

This API is used to query the approver/review expert list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/user/role

Table 4-1215 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1216 Query Parameters

Parameter	Mandatory	Type	Description
user_type	No	String	**Definition** User type. **Constraints** If the parameter is not **reviewer**, the default value is **approver**. **Range** • **approver**: Approver. • **reviewer**: Reviewer. **Default Value** approver
target_project_id	No	String	**Definition** 32-character UUID of a project, which uniquely identifies the target project. If provided, it will override the value of **project_id**. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
review_id	No	String	**Definition** Unique ID of a review, which is used to determine whether a cross-project query is needed for the user list. Obtain the value of this parameter from the **id** field in the response body of the **Querying the Review List** API. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1217 Response body parameters

Parameter	Type	Description
status	String	Response status.
message	String	Response error message.
result	**result** object	List of decision-makers/review experts

Table 4-1218 result

Parameter	Type	Description
users	Array of **users** objects	User list.

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Table 4-1219 users

Parameter	Type	Description
user_id	String	User ID.
user_num_id	String	Digital ID of a user.
user_name	String	Username.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
nick_name	String	Alias.
role_id	String	Role ID.
role_name	String	Role name.
role_code	String	Role code.

Status code: 400

Table 4-1220 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/b811b0bef58b479d9b5e4ab856b349ab/user/role?user_type=approver&review_id=&target_project_id=
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "users" : [ {
```

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```
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : null,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : null,
    "nick_name" : "Sam 1",
    "role_id" : "0c4370789ec246bb9f5480077e1119d5",
    "role_name" : "Project manager",
    "role_code" : "Project manager"
   }, {
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : null,
    "user_name" : "devcloud_devcloud_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : null,
    "nick_name" : "Sam 1",
    "role_id" : "0438be11ed284528ae79c8afd054ecf1",
    "role_name" : "Project administrator",
    "role_code" : "project_admin"
   } ]
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	ok
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.18 IPD Tag Management

4.18.1 Querying Tags

Function

This API is used to query the tag list. Tags are displayed on one page. You can search for tags by title.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/tags

Table 4-1221 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1222 Query Parameters

Parameter	Mandatory	Type	Description
label_type	No	String	**Definition** Category of the work item to which the tag belongs. If this parameter is not specified, tags of all types are queried by default. This parameter is not recommended. Use the **category_types** parameter instead. For custom requirement models, only the **category_types** parameter can be used. **Constraints** N/A **Range** • **feature**: Feature. • **raw requirement**: Raw requirement. • **requirement**: R&D requirement. • **task**: Task. • **bug**: Defect. **Default Value** N/A
title	No	String	Tag name.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1223 Response body parameters

Parameter	Type	Description
result	**LabelListResponse** object	**Definition** Tag list. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Error message returned when the request fails. **Range** N/A

Table 4-1224 LabelListResponse

Parameter	Type	Description
data	Array of **LabelEntity** objects	Tag list.
total	Integer	Total number of tags.

Table 4-1225 LabelEntity

Parameter	Type	Description
id	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Range** A string of 18 to 19 digits.
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.

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Parameter	Type	Description
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue

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Parameter	Type	Description
title	String	**Definition** Label title. **Range** N/A

Status code: 400

Table 4-1226 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying the tags whose titles contain 11 in a bug

```
GET https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags?title=11&label_type=bug
```

Example Responses

Status code: 200

```
{
  "status": "success",
  "result": {
    "data": [
      {
        "id": "1030082514003210240",
        "label_type": "bug"
        "category_types": "Bug",
        "color": "#A97AF8",
        "title": "Bug11"
      }
    ],
    "total": 7
  }
}
```

Status code: 400

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```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIpdLabelsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIpdLabelsRequest request = new ListIpdLabelsRequest();
        request.withProjectId("{project_id}");
        try {
            ListIpdLabelsResponse response = client.listIpdLabels(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

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```
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIpdLabelsRequest()
        request.project_id = "{project_id}"
        response = client.list_ipd_labels(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
```

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```
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIpdLabelsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListIpdLabels(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.18.2 Creating a Tag

Function

This API is used to create a tag.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/tags

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Table 4-1227 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Request Parameters

Table 4-1228 Request body parameters

Parameter	Mandatory	Type	Description
label_type	No	String	**Definition** Type of the work item to which the label belongs, corresponding to the **type** field of the work item, which is an enumeration type. This parameter is not recommended. Use the **category_types** parameter instead. For custom requirement models, only the **category_types** parameter can be used. **Constraints** N/A **Range** • **raw requirement**: Raw requirement. • **feature**: System feature. • **requirement**: R&D requirement. • **task**: Task. • **bug**: Defect. **Default Value** N/A

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Parameter	Mandatory	Type	Description
color	Yes	String	**Definition** Label color. This parameter is optional when it is used as an update parameter. **Constraints** N/A **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue **Default Value** N/A

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Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Label title. **Constraints** 1 to 30 characters. **Range** N/A **Default Value** N/A
category_types	Yes	String	**Definition** Work item type code. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1229 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	Response.
result	**LabelCreateResult** object	Label details.

Table 4-1230 LabelCreateResult

Parameter	Type	Description
id	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Range** N/A
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.
color	String	**Definition** Label RGB color. **Range** N/A
title	String	**Definition** Label title. **Range** N/A

Status code: 400

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Table 4-1231 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Creating R&D requirement tags

```
POST https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags

{
  "title" : "Tag-IR-05",
  "color" : "#A6DD82",
  "label_type" : "requirement",
  "category_types" : "IR,SR"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "id" : "1250583934720716801",
    "color" : "#A6DD82",
    "title" : "Tag-RR-01",
    "category_types" : [ "IR" ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Creating R&D requirement tags

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```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateIpdLabelSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdLabelRequest request = new CreateIpdLabelRequest();
        request.withProjectId("{project_id}");
        LabelParam body = new LabelParam();
        body.withTitle("Tag-IR-05");
        body.withColor("#A6DD82");
        body.withLabelType(LabelParam.LabelParam.fromValue("requirement"));
        request.withBody(body);
        try {
            CreateIpdLabelResponse response = client.createIpdLabel(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Creating R&D requirement tags

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *
```

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```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdLabelRequest()
        request.project_id = "{project_id}"
        request.body = LabelParam(
            title="Tag-IR-05",
            color="#A6DD82",
            label_type="requirement"
        )
        response = client.create_ipd_label(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Creating R&D requirement tags

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIpdLabelRequest{}
    request.ProjectId = "{project_id}"
    labelTypeLabelParam:= model.GetLabelParamLabelTypeEnum().REQUIREMENT
    request.Body = &model.LabelParam{
        Title: "Tag-IR-05",
        Color: "#A6DD82",
        LabelType: &labelTypeLabelParam,
    }
    response, err := client.CreateIpdLabel(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.18.3 Updating a Tag

Function

This API is used to update a tag. The title and color can be updated.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:tag:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}

Table 4-1232 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
label_id	Yes	String	**Definition** Label ID, which uniquely identifies a label. It is the value of **id** in the response body returned by calling the API for **querying the label list**. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-1233 Request body parameters

Parameter	Mandatory	Type	Description
label_type	No	String	**Definition** Type of the work item to which the label belongs, corresponding to the **type** field of the work item, which is an enumeration type. This parameter is not recommended. Use the **category_types** parameter instead. For custom requirement models, only the **category_types** parameter can be used. **Constraints** N/A **Range** • **raw requirement**: Raw requirement. • **feature**: System feature. • **requirement**: R&D requirement. • **task**: Task. • **bug**: Defect. **Default Value** N/A

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Parameter	Mandatory	Type	Description
color	Yes	String	**Definition** Label color. This parameter is optional when it is used as an update parameter. **Constraints** N/A **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue **Default Value** N/A

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Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Label title. **Constraints** 1 to 30 characters. **Range** N/A **Default Value** N/A
category_types	Yes	String	**Definition** Work item type code. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1234 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	Response.
result	**LabelUpdateResult** object	Label update result.

Table 4-1235 LabelUpdateResult

Parameter	Type	Description
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.
color	String	**Definition** Label RGB color. **Range** N/A
title	String	**Definition** Label title. **Range** N/A

Status code: 400

Table 4-1236 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Updating the tag title

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags/1030868827803529217

{
  "title" : "Tag-RR-01",
  "color" : "#A6DD82",
  "category_types" : "IR"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "color" : "#A6DD82",
    "title" : "Tag-RR-01",
    "category_types" : [ "IR" ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Updating the tag title

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
```

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```
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateIpdLabelSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateIpdLabelRequest request = new UpdateIpdLabelRequest();
        request.withLabelId("{label_id}");
        request.withProjectId("{project_id}");
        LabelParam body = new LabelParam();
        body.withTitle("Tag-RR-01");
        body.withColor("#A6DD82");
        request.withBody(body);
        try {
            UpdateIpdLabelResponse response = client.updateIpdLabel(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Updating the tag title

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]
```

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```
    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateIpdLabelRequest()
        request.label_id = "{label_id}"
        request.project_id = "{project_id}"
        request.body = LabelParam(
            title="Tag-RR-01",
            color="#A6DD82"
        )
        response = client.update_ipd_label(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Updating the tag title

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.UpdateIpdLabelRequest{}
    request.LabelId = "{label_id}"
    request.ProjectId = "{project_id}"
    request.Body = &model.LabelParam{
        Title: "Tag-RR-01",
        Color: "#A6DD82",
    }
    response, err := client.UpdateIpdLabel(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.18.4 Deleting a Tag

Function

This API is used to delete a tag.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:tag:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}

Table 4-1237 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
label_id	Yes	String	**Definition** Label ID, which uniquely identifies a label. It is the value of **id** in the response body returned by calling the API for **querying the label list**. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-1238 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success** • **error**
message	String	**Definition** Returned message. **Range** N/A
result	**DeleteIpdLabelResultVO** object	**Definition** Returned result of deleting a tag.

Table 4-1239 DeleteIpdLabelResultVO

Parameter	Type	Description
id	String	**Definition** ID of the deleted tag. **Range** A string of 18 to 19 digits.

Status code: 400

Table 4-1240 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Deleting a Specified Tag

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags/1030868827803529217
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "id" : "1030868827803529217"
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteIpdLabelSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteIpdLabelRequest request = new DeleteIpdLabelRequest();
        request.withProjectId("{project_id}");
        request.withLabelId("{label_id}");
        try {
            DeleteIpdLabelResponse response = client.deleteIpdLabel(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteIpdLabelRequest()
        request.project_id = "{project_id}"
        request.label_id = "{label_id}"
        response = client.delete_ipd_label(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteIpdLabelRequest{}
    request.ProjectId = "{project_id}"
    request.LabelId = "{label_id}"
    response, err := client.DeleteIpdLabel(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.19 IPD Attachment Management

4.19.1 Uploading Files and Associating Work Items

Function

This API is used to upload an attachment to a work item in an IPD project. You can use the project ID and work item ID to associate a work item with a file.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:upload	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/attachments/upload

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Table 4-1241 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

Table 4-1242 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	**Definition** Attachment. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1243 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Error message. **Range** N/A
result	Array of **AttachmentVoExt** objects	**Definition** Attachment upload information. The array element is the AttachmentVoExt object. **Range** 0 to 100 elements. Each element is an AttachmentVoExt object.

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Table 4-1244 AttachmentVoExt

Parameter	Type	Description
progress	Integer	**Definition** Upload process. **Range** 0 to 100
id	String	**Definition** Attachment ID. **Range** A string of 18 to 19 digits.
workitem_id	String	**Definition** Work item ID. **Range** A string of 18 to 19 digits.
store_filename	String	**Definition** File name. **Range** 0 to 256 characters.
associate_type	String	**Definition** Association type. **Range** N/A
disk_directory	String	**Definition** Relative path for storing the attachment on the server. **Range** 0 to 1,024 characters.
type	String	**Definition** Type. **Range** • **attachment**: The metadata type is attachment.
category	String	**Definition** Metadata type. **Range** • **Attachment**: The metadata type is attachment.

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Parameter	Type	Description
issue_category	String	**Definition** Work item type. **Range** 0 to 32 characters.
status	String	**Definition** Attachment status. **Range** 0 to 32 characters.
description	String	**Definition** Attachment description. **Range** N/A
modified_by	**UserCommonVO** object	Modifier information.
created_by	**UserCommonVO** object	Creator information.
domain_id	String	**Definition** Project space ID. **Range** A string of 18 to 19 digits.
attachment_type	String	**Definition** File type. **Range** 0 to 32 characters.
created_date	String	**Definition** Creation timestamp. **Range** 13 to 19 characters.
storage_service	String	**Definition** Name of the background service that processes the attachment. **Range** 0 to 32 characters.
storage_id	String	**Definition** Storage ID used in the database. **Range** 0 to 32 characters.

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Parameter	Type	Description
delete_flag	Boolean	**Definition** Whether the work item is deleted. **Range** • **false**: not deleted. • **true**: deleted.
filesize	Long	**Definition** File size, in bytes. **Range** 0–104857600 (0–100 MB)
title	String	**Definition** Actual name on the server. **Range** 32 to 128 characters.

Table 4-1245 UserCommonVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
image_id	String	**Definition** User avatar. **Range** N/A
region	String	**Definition** Region to which a user belongs. **Range** N/A
watcher	Integer	**Definition** Observer. **Range** N/A
opinion	String	**Definition** Review information. **Range** N/A

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Parameter	Type	Description
description	String	**Definition** Description. **Range** N/A
owner	String	**Definition** Current handler. **Range** N/A
ccbId	String	**Definition** Review object ID. **Range** N/A
status	Integer	**Definition** Status. **Range** N/A
has_removed	String	**Definition** Whether the user has been removed from the project. **Range** N/A

Status code: 400

Table 4-1246 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

Assume that the project ID is **gdbdf969b32694524a949b5ef6b3e124a** and the work item ID is **956239067176935400**. The following is an example of uploading an image attachment named **demo.PNG** to the work item:

```
POST https://{endpoint}/v1/ipdprojectservice/projects/gdbdf969b32694524a949b5ef6b3e124a/issues/
956239067176935400/attachments/upload

------WebKitFormBoundary1kuNerRnRVVybt65
Content-Disposition: form-data; name="attachment"; filename="demo.PNG"
Content-Type: image/png
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "progress" : 100,
    "id" : "1212813884362502144",
    "workitem_id" : "1212811957668290561",
    "associate_type" : null,
    "disk_directory" : "/projects/687a0637cf814b65b77b3e781af19ab2/attachments/
6b570776a30844e7b6361f00c2a1a5bf.xlsx",
    "filesize" : "36449",
    "store_filename" : "TTT.xlsx",
    "title" : "6b570776a30844e7b6361f00c2a1a5bf.xlsx",
    "type" : "attachment",
    "category" : "Attachment",
    "issue_category" : null,
    "status" : null,
    "description" : null,
    "modified_by" : {
      "watcher" : null,
      "user_id" : "fcb28511450247ffbf78071035f9543c",
      "user_num_id" : 13369,
      "user_name" : "CodeArtsReq_GA2_MAX_Items",
      "domain_id" : "cdf72eb7297642da8c4b0dffe4f4f14b",
      "domain_name" : "CodeArtsReq_Test",
      "nick_name" : "CodeArtsReq_GA2_MAX_Items",
      "role_id" : null,
      "role_name" : null,
      "image_id" : null,
      "region" : null,
      "opinion" : null,
      "description" : null,
      "owner" : null,
      "ccbId" : null,
      "status" : 1,
      "has_removed" : null
    },
    "created_by" : {
      "watcher" : null,
      "user_id" : "fcb28511450247ffbf78071035f9543c",
      "user_num_id" : 13369,
      "user_name" : "CodeArtsReq_GA2_MAX_Items",
      "domain_id" : "cdf72eb7297642da8c4b0dffe4f4f14b",
      "domain_name" : "CodeArtsReq_Test",
      "nick_name" : "CodeArtsReq_GA2_MAX_Items",
      "role_id" : null,
      "role_name" : null,
      "image_id" : null,
      "region" : null,
      "opinion" : null,
      "description" : null,
```


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```
    "owner" : null,
    "ccbId" : null,
    "status" : 1,
    "has_removed" : null
  },
  "domain_id" : "1212810843328520193",
  "attachment_type" : "xlsx",
  "created_date" : "1767086963022",
  "storage_service" : "IPDProjectService",
  "storage_id" : "6b570776a30844e7b6361f00c2a1a5bf",
  "delete_flag" : false
 } ]
}
```


Status code: 400


```
{
  "error_code" : "PM.02175145",
  "error_msg" : "The work item has been deleted."
}
```


Status Codes

Status Code	Description
200	Response to a successful request for uploading an attachment.
400	Response to the attachment upload failure, such as no operation permission and the work item has been deleted.

Error Codes

See **Error Codes**.

4.19.2 Querying the Work Item Attachment List

Function

This API is used to query the work item attachment list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/attachments

Table 4-1247 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1248 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
source_project_id	Yes	String	**Definition** ID of the project to which the work item belongs. The value can be obtained by calling the **Querying the IPD Project List** API. When the work item type is **RR** or **Bug**, if the work item attachment is queried in the proposing project, **project_id** is the proposing project ID, and **source_project_id** is the responsible project ID of the work item. In other scenarios, this parameter is optional. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1249 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Response message. **Range** N/A
result	Array of **AttachmentEntity** objects	**Definition** Attachment list. The array element is the AttachmentEntity object. **Range** 0 to 100 elements. Each element is an AttachmentEntity object.

Table 4-1250 AttachmentEntity

Parameter	Type	Description
id	String	**Definition** Attachment ID. **Range** A string of 18 to 19 digits.
issue_id	String	**Definition** Work item ID of an attachment. **Range** A string of 18 to 19 digits.
file_size	Long	**Definition** Attachment size, in bytes. The maximum size of an attachment is 50 MB. **Range** 0–52428800 (0–50 MB)

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Parameter	Type	Description
file_name	String	**Definition** Original name of the attachment. **Range** 2 to 256 characters.
attachment_type	String	**Definition** Attachment type, that is, file name extension. **Range** • Image: **bmp**, **png**, **jpg**, **gif**, **icon**, **ico**, and **svg** • PDF • Audio and video: **mp3**, **mp4**, **webm**, **wav**, and **ogg** • Text: **txt**, **sh**, **js**, **ts**, **java**, **php**, **css**, **html**, **xml**, **sql**, **rb**, **py**, and **json** • HTML: **docx**, **pptx**, and **xlsx** • Markdown: **md**
modified_by	**UserEntity** object	Modifier.
created_by	**UserEntity** object	Creator.
created_date	String	**Definition** Timestamp of the attachment upload time. **Range** 13 to 19 characters. N/A

Table 4-1251 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Status code: 400

Table 4-1252 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/68158c24d6d14e48bab08befefae150f/attachments?issue_id=984407816014831616
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "984409429450334208",
    "issue_id" : "984407816014831616",
    "file_size" : "79234",
    "file_name" : "IPD System Device-Bug-Import Template.xlsx",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
```

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```
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "attachment_type" : "xlsx",
    "created_date" : "1712631097000"
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIpdAttachmentByWorkItemIdSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIpdAttachmentByWorkItemIdRequest request = new ShowIpdAttachmentByWorkItemIdRequest();
        request.withProjectId("{project_id}");
        try {
            ShowIpdAttachmentByWorkItemIdResponse response = client.showIpdAttachmentByWorkItemId(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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```
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIpdAttachmentByWorkItemIdRequest()
        request.project_id = "{project_id}"
        response = client.show_ipd_attachment_by_work_item_id(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIpdAttachmentByWorkItemIdRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowIpdAttachmentByWorkItemId(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Attachment response.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.19.3 Downloading Work Item Attachments by ID

Function

This API is used to download work item attachments by ID.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:attachment:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/attachments/download/{id}

Table 4-1253 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
id	Yes	String	**Definition** Attachment ID, which is obtained by calling the **Querying Work Item Attachments** API. The value of **id** in the response body is the attachment ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1254 Response body parameters

Parameter	Type	Description
-	File	Attachment file content.

Status code: 400

Table 4-1255 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/68158c24d6d14e48bab08befefae150f/attachments/download/984773880527626241
```

Example Responses

Status code: 200

None

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DownloadIpdIssueAttachmentSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
```

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```
            .withCredential(auth)
            .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
            .build();
        DownloadIpdIssueAttachmentRequest request = new DownloadIpdIssueAttachmentRequest();
        request.withProjectId("{project_id}");
        request.withId("{id}");
        try {
            DownloadIpdIssueAttachmentResponse response = client.downloadIpdIssueAttachment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DownloadIpdIssueAttachmentRequest()
        request.project_id = "{project_id}"
        request.id = "{id}"
        response = client.download_ipd_issue_attachment(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DownloadIpdIssueAttachmentRequest{}
    request.ProjectId = "{project_id}"
    request.Id = "{id}"
    response, err := client.DownloadIpdIssueAttachment(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Attachment file content.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

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Error Codes

See **Error Codes**.

4.20 IPD Project Management

4.20.1 Querying the IPD Project List

Function

This API is used to query the IPD project list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/ipd

Table 4-1256 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	**Definition** Project name keyword. **Constraints** Max. 256 characters. **Range** N/A **Default Value** N/A
model	No	String	**Definition** IPD project model ID. **Constraints** N/A **Range** • **10001**: system device • **10002**: standalone software **Default Value** N/A

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-1257 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Error message. **Range** N/A
result	Array of **ProjectInfoVO** objects	**Definition** Project information list.

Table 4-1258 ProjectInfoVO

Parameter	Type	Description
id	String	**Definition** Project ID. **Range** N/A
name	String	**Definition** Project name. **Range** N/A

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Parameter	Type	Description
project_type	String	**Definition** Project type. **Range** • **ipd**: IPD project • **scrum**: Scrum project • **xboard**: Kanban project
domain_id	String	**Definition** Project space ID. **Range** N/A
model_id	String	**Definition** IPD project model ID. **Range** • **10001**: system device • **10002**: standalone software
accept_rr	Integer	**Definition** Whether the project accepts external raw requirements (RRs). **Range** • **0**: External RRs are not accepted. • **1**: External RRs are accepted.
category	String	**Definition** Project type, which is used to distinguish between projects and project groups. **Range** • **Project** • **Group**
created_by_name	String	**Definition** Name of the project creator. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/ipd?search=&model=
```

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Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "e44fbbd512b6470886b0f95663d4789a",
    "name" : "IPD-standalone software-sample project",
    "project_type" : "ipd",
    "domain_id" : "982241044173205505",
    "model_id" : "10002"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIpdProjectListSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIpdProjectListRequest request = new ShowIpdProjectListRequest();
        try {
            ShowIpdProjectListResponse response = client.showIpdProjectList(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
```

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```
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIpdProjectListRequest()
        response = client.show_ipd_project_list(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIpdProjectListRequest{}
    response, err := client.ShowIpdProjectList(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response

Error Codes

See **Error Codes**.

4.20.2 Querying Project Members

Function

This API is used to query project members.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:member:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/users

Table 4-1259 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1260 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	Failure message.
result	Array of **UserVO** objects	User information list.

Table 4-1261 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A

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Parameter	Type	Description
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Status code: 400

Table 4-1262 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

Querying project members of the project whose ID is 7a165263bedc4f589b017d909d04a067

```
GET https://{endpoint}/v1/ipdprojectservice/projects/7a165263bedc4f589b017d909d04a067/users
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "user_id" : "a71eed54261e4c9888f34dfbb777d423",
    "user_num_id" : null,
    "user_name" : "testUser1",
    "domain_id" : "aae03ca0d6814951980945b6eeca56cd",
    "domain_name" : null,
    "nick_name" : "",
    "role_id" : "3013fa41bf734685af16afe49d21240a",
    "role_name" : "Developer",
    "role_code" : "Developer"
  }, {
    "user_id" : "c2d89e38a64a466f8f945f595df4402d",
    "user_num_id" : null,
    "user_name" : "ForTest",
    "domain_id" : "aae03ca0d6814951980945b6eeca56cd",
    "domain_name" : null,
    "nick_name" : "ForTestForTest",
    "role_id" : "6806b0e509054db593f4f98eb4d8cf64,a4691fdc09484b8ab1e4e2b86de4fe76",
    "role_name" : "Project admin,Project manager",
    "role_code" : "Project manager,project_admin"
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectUsersSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

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```
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectUsersRequest request = new ListProjectUsersRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectUsersResponse response = client.listProjectUsers(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectUsersRequest()
        request.project_id = "{project_id}"
        response = client.list_project_users(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

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```
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListProjectUsersRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectUsers(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.21 IPD Field Management

4.21.1 Querying Fields

Function

This API is used to query the field list by page. Keywords, including title, field type, and creator, can be used for query.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/fields

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Table 4-1263 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1264 Query Parameters

Parameter	Mandatory	Type	Description
keyword	No	String	**Definition** Keyword search by title, field type, and creator. **Constraints** N/A **Range** N/A **Default Value** N/A
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value must be a multiple of **limit**. **Range** ≥ 0 **Default Value** 0

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Page size. **Constraints** N/A **Range** ≥ 1 **Default Value** 20

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1265 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Request failure information. **Range** N/A
result	**FieldListResult** object	**Definition** Field list.

Table 4-1266 FieldListResult

Parameter	Type	Description
data	Array of **FieldEntity** objects	**Definition** Field list.

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Parameter	Type	Description
total	Integer	**Definition** Total number of fields in a project. **Range** N/A

Table 4-1267 FieldEntity

Parameter	Type	Description
display_name	String	**Definition** Field name. **Range** N/A
code	String	**Definition** Field code. **Range** N/A
id	String	**Definition** Field ID. **Range** N/A
description	String	**Definition** Field description. **Range** N/A
created_by	String	**Definition** Field creator name. **Range** N/A
created_date	String	**Definition** Time when a field is created, in timestamp format, for example, **1715305846000**. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** Name of the user who last updated the field. **Range** N/A
definition_type	String	**Definition** Field level. **Range** • **1**: System-preset field. • **2**: System-preset field. • **3**: System-preset field. • **4**: Tenant-customized field. • **5**: Project-customized field.
field_type_name	String	**Definition** Field type name. **Range** N/A
required	Boolean	**Definition** Whether the field is mandatory in the work item. If the configuration is inconsistent with the workflow configuration, the workflow configuration prevails. **Range** • **true**: Mandatory. • **false**: Optional.
controlled	Boolean	**Definition** Whether the field is controlled in the work item. To modify a controlled field of a baselined work item, a change review process is required. If the configuration is inconsistent with the workflow configuration, the workflow configuration prevails. **Range** • **true**: Controlled. • **false**: Not controlled.

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Parameter	Type	Description
immutable	Boolean	**Definition** Whether the field is not modifiable in the work item. If the configuration is inconsistent with the workflow configuration, the workflow configuration prevails. **Range** • **true**: Not modifiable. • **false**: Modifiable.
no	Integer	**Definition** Field sequence number. **Range** N/A
all_options	Array of **OptionEntity** objects	**Definition** Field option.
support_hiding	Boolean	**Definition** Whether the field can be hidden. **Range** • **true**: It can be hidden. • **false**: It cannot be hidden.
default_value_editable	Boolean	**Definition** Whether the default value of the field is editable. **Range** • **true**: Editable. • **false**: Not editable.
field_id	String	**Definition** Field ID. **Range** N/A
using_status	Boolean	**Definition** Whether the field is in use. **Range** • **true**: In use. • **false**: Not in use.

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Parameter	Type	Description
required_editable	Boolean	**Definition** Whether the field is mandatory and editable. **Range** • **true**: Editable. • **false**: Not editable.
controlled_editable	Boolean	**Definition** Whether the field is controlled and editable. **Range** • **true**: Editable. • **false**: Not editable.
option_source	String	**Definition** Field option source. **Range** N/A
show_on_split	Boolean	**Definition** Whether the field is displayed during splitting. **Range** • **true**: Displayed. • **false**: Not displayed.
show_on_filter	Boolean	**Definition** Whether the field is displayed during filtering. **Range** • **true**: Displayed. • **false**: Not displayed.
show_on_edit	Boolean	**Definition** Whether the field is displayed during editing. **Range** • **true**: Displayed. • **false**: Not displayed.

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Parameter	Type	Description
show_on_table	Boolean	**Definition** Whether the field is displayed in the table. **Range** • **true**: Displayed. • **false**: Not displayed.
sort_on_table	Boolean	**Definition** Whether the field is sorted in the table. **Range** • **true**: Sorted. • **false**: Not sorted.
config_on_card	Boolean	**Definition** Whether the field is configured in the card. **Range** • **true**: Configured. • **false**: Not configured.
card_field_seq	Integer	**Definition** Card field sorting sequence number. **Range** N/A
has_update_privilege	Boolean	**Definition** Whether the user has permission to update the field. **Range** • **true**: The user has the permission. • **false**: The user does not have the permission.

Table 4-1268 OptionEntity

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A

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Parameter	Type	Description
code	String	**Definition** Code value of an option. **Range** N/A
display_value	String	**Definition** Option name. **Range** N/A
value	String	**Definition** Unique option ID. **Range** N/A
level	Integer	**Definition** Number of option levels. **Range** The value is an integer ranging from 1 to 4.
sequence	Integer	**Definition** Sequence number of an option. Smaller values are displayed first. **Range** 0 to 2147483647
parent_id	String	**Definition** Parent option ID. Identifier of the parent option in the level option. The top option is empty or null. **Range** 2 to 32 characters.

Example Requests

Querying fields by keyword

```
GET https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/fields?offset=0&limit=1
```

Example Responses

Status code: 200

```
{
  "status" : "success",
```

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```
 "result" : {
  "data" : [ {
   "display_name" : "Subtitle",
   "code" : "c7186197833374113792",
   "id" : "994277015639076864",
   "description" : "222222222222",
   "created_by" : "Test alias",
   "created_date" : "1715305846000",
   "modified_by" : "Test alias",
   "definition_type" : "4",
   "field_type_name" : "Multi-line text",
   "required" : false,
   "controlled" : false,
   "immutable" : false,
   "no" : 9999
  } ],
  "total" : 1
 }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIpdProjectFieldsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIpdProjectFieldsRequest request = new ListIpdProjectFieldsRequest();
        request.withProjectId("{project_id}");
        try {
            ListIpdProjectFieldsResponse response = client.listIpdProjectFields(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
```

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```
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIpdProjectFieldsRequest()
        request.project_id = "{project_id}"
        response = client.list_ipd_project_fields(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
```

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```
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIpdProjectFieldsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListIpdProjectFields(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.21.2 Querying the Work Item Instance Field List

Function

Query the field configuration information available during work item instance creation, including system fields and custom fields.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/categories/{category_id}/fields

Table 4-1269 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category_id	Yes	String	**Definition** Work item type ID, which uniquely identifies a work item type. **Constraints** Available values vary by project model: • IPD-system device: **10021** (RR), **10065** (SF), **10020** (IR), **10022** (SR), **10029** (AR), **10027** (task), and **10033** (bug) • IPD-standalone software: **10021** (RR), **10065** (SF), **10020** (IR), **10023** (US), **10027** (task), and **10033** (bug) Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The value of the **id** field in **categories** in the response body is the work item type ID. **Range** • **10020**: IR (R&D requirement) • **10021**: RR (raw requirement) • **10022**: SR (system requirement) • **10023**: US (user story) • **10027**: Task • **10029**: AR (allocated requirement) • **10033**: Bug (defect) • **10065**: SF (system feature) Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The value of the **id** field in **categories** in the response body is the work item type ID. **Default Value**

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Parameter	Mandatory	Type	Description
			N/A

Table 4-1270 Query Parameters

Parameter	Mandatory	Type	Description
category_layer_id	No	String	**Definition** Level field ID. Field used to filter level types. This parameter is passed when fields need to be filtered by level structure. **Constraints** N/A **Range** 5 to 32 characters. **Default Value** N/A
target_project_id	No	String	**Definition** 32-character ID of the target project, which must be unique. Obtain the value by calling the **Querying the IPD Project List** API. The value of **id** in the response message body is the project ID. This parameter is passed when you need to query the field configuration of other projects. **Constraints** N/A **Range** 32 characters. **Default Value** N/A

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Request Parameters

Table 4-1271 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1272 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response code. Processing result of the request for querying the work item instance field list. **Range** • **success**: The work item instance field list is queried successfully. • **failed**: Failed to query the work item instance field list.
message	String	**Definition** Response message. If the request fails, detailed error information is included, which can be used for troubleshooting. **Range** N/A

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Parameter	Type	Description
result	Array of **FieldVO** objects	**Definition** Field list result. Field configuration information that can be selected during work item instance creation, including the field ID, code, name, and type. The information includes system fields and custom fields. **Range** N/A

Table 4-1273 FieldVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a field. **Range** 5 to 32 characters.
code	String	**Definition** Field code. In a project, the code is generally used as the field identifier instead of the field ID. **Range** N/A
display_name	String	**Definition** Field display name. **Range** N/A
created_by	String	**Definition** ID of the field creator. **Range** N/A
created_date	String	**Definition** Creation time of a field. Timestamp format, in milliseconds. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** ID of the last person who modified the field. **Range** N/A
modified_date	String	**Definition** Time when a field was last modified. Timestamp format, in milliseconds. **Range** N/A
field_type	String	**Definition** Field type identifier. **Range** N/A
field_type_id	String	**Definition** Field type ID. It is used to distinguish different field types. **Range** N/A
field_type_name	String	**Definition** Field type name. For example, single-choice list, multi-choice list, and multi-line text. **Range** N/A
definition_type	String	**Definition** Field definition type. Used to distinguish system fields from custom fields. **Range** - **1**: system field • **2**: system field • **3**: system field • **4**: tenant-defined field • **5**: project-defined field

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Parameter	Type	Description
show_on_card	Boolean	**Definition** Whether to display in the sprint dashboard card mode of the cloud service type. **Range** • **true**: displayed • **false**: not displayed
optional	Boolean	**Definition** Whether the field is mandatory. **Range** • **true**: mandatory • **false**: optional
controlled	Boolean	**Definition** Whether the field is controlled. If a work item has been baselined, changing the value of a controlled field will trigger a change review. **Range** • **true**: controlled • **false**: not controlled
immutable	Boolean	**Definition** Whether the field is immutable. The update API cannot update immutable fields. **Range** • **true**: immutable • **false**: mutable
no	Integer	**Definition** Field sequence number. Smaller values are displayed first. **Range** An integer ranging from 0 to 9999.
default_value	String	**Definition** Default value of a field. Automatically filled when a work item is created. **Range** N/A

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Parameter	Type	Description
option	**OptionEntity** object	**Definition** Field option. Options of a single-choice list field, including the option ID, code, and display name. **Range** N/A
all_options	Array of **OptionEntity** objects	**Definition** All options of a field. All options of a multi-choice list field. The array elements include the option ID, code, and display name. **Range** N/A
has_same_display_name	Boolean	**Definition** Whether fields with the same name exist. It is used to detect field name conflicts. **Range** • **true**: Fields with the same name exist. • **false**: No fields with the same name.

Table 4-1274 OptionEntity

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A
code	String	**Definition** Code value of an option. **Range** N/A
display_value	String	**Definition** Option name. **Range** N/A

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Parameter	Type	Description
value	String	**Definition** Unique option ID. **Range** N/A
level	Integer	**Definition** Number of option levels. **Range** The value is an integer ranging from 1 to 4.
sequence	Integer	**Definition** Sequence number of an option. Smaller values are displayed first. **Range** 0 to 2147483647
parent_id	String	**Definition** Parent option ID. Identifier of the parent option in the level option. The top option is empty or null. **Range** 2 to 32 characters.

Status code: 400

Table 4-1275 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

Querying the work item instance field list

```
GET https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/categories/10021/fields
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "result" : [ {
    "id" : "10042",
    "code" : "priority",
    "display_name" : "Priority.",
    "created_by" : "System",
    "created_date" : "1705476103000",
    "modified_by" : "System",
    "modified_date" : "1705476103000",
    "field_type" : "pick",
    "field_type_id" : "10001",
    "field_type_name" : "Single-choice list",
    "definition_type" : "1",
    "show_on_card" : false,
    "optional" : true,
    "controlled" : false,
    "immutable" : false,
    "default_value" : "",
    "no" : 1,
    "option" : [ {
      "id" : "1135144056192544813",
      "display_value" : "High",
      "value" : "High",
      "code" : "High",
      "sequence" : 0,
      "level" : 1
    }, {
      "id" : "1135144056192544814",
      "display_value" : "Medium",
      "value" : "Medium",
      "code" : "Medium",
      "sequence" : 1,
      "level" : 1
    }, {
      "id" : "1135144056192544815",
      "display_value" : "Low",
      "value" : "Low",
      "code" : "Low",
      "sequence" : 2,
      "level" : 1
    } ]
  } ]
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "Invalid pagination parameter."
}
```


SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIpdFieldsV2Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIpdFieldsV2Request request = new ShowIpdFieldsV2Request();
        request.withProjectId("{project_id}");
        request.withCategoryId("{category_id}");
        try {
            ShowIpdFieldsV2Response response = client.showIpdFieldsV2(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIpdFieldsV2Request()
        request.project_id = "{project_id}"
        request.category_id = "{category_id}"
        response = client.show_ipd_fields_v2(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIpdFieldsV2Request{}
    request.ProjectId = "{project_id}"
    request.CategoryId = "{category_id}"
```

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```
    response, err := client.ShowIpdFieldsV2(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Error cause.

Error Codes

See **Error Codes**.

4.21.3 Querying the Field List by Work Item Type

Function

This API is used to query the field list by work item type.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/categories/{category_id}/field/templates

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Table 4-1276 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category_id	Yes	String	**Definition** Work item type ID, which uniquely identifies a work item type. **Constraints** Available values vary by project model: • IPD-system device: **10021** (RR), **10065** (SF), **10020** (IR), **10022** (SR), **10029** (AR), **10027** (task), and **10033** (bug) • IPD-standalone software: **10021** (RR), **10065** (SF), **10020** (IR), **10023** (US), **10027** (task), and **10033** (bug) Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The value of the **id** field in **categories** in the response body is the work item type ID. **Range** • **10020**: IR (R&D requirement) • **10021**: RR (raw requirement) • **10022**: SR (system requirement) • **10023**: US (user story) • **10027**: Task • **10029**: AR (allocated requirement) • **10033**: Bug (defect) • **10065**: SF (system feature) Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The value of the **id** field in **categories** in the response body is the work item type ID. **Default Value**

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Parameter	Mandatory	Type	Description
			N/A

Table 4-1277 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	**Definition** Page number. **Constraints** N/A **Range** 1–100 **Default Value** 1
size	No	Integer	**Definition** Number of records on each page. **Constraints** N/A **Range** 10 to 1000 **Default Value** 20

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Request Parameters

Table 4-1278 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1279 Response body parameters

Parameter	Type	Description
page	**PageVO** object	**Definition**: Pagination information.
result	Array of **FieldVO** objects	**Definition**: Returned data.

Table 4-1280 PageVO

Parameter	Type	Description
page	String	**Definition** Current page. **Range** N/A
size	String	**Definition** Number of records on each page. **Range** N/A

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Parameter	Type	Description
count	String	**Definition** Total number. **Range** N/A

Table 4-1281 FieldVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a field. **Range** 5 to 32 characters.
code	String	**Definition** Field code. In a project, the code is generally used as the field identifier instead of the field ID. **Range** N/A
display_name	String	**Definition** Field display name. **Range** N/A
created_by	String	**Definition** ID of the field creator. **Range** N/A
created_date	String	**Definition** Creation time of a field. Timestamp format, in milliseconds. **Range** N/A
modified_by	String	**Definition** ID of the last person who modified the field. **Range** N/A

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Parameter	Type	Description
modified_date	String	**Definition** Time when a field was last modified. Timestamp format, in milliseconds. **Range** N/A
field_type	String	**Definition** Field type identifier. **Range** N/A
field_type_id	String	**Definition** Field type ID. It is used to distinguish different field types. **Range** N/A
field_type_name	String	**Definition** Field type name. For example, single-choice list, multi-choice list, and multi-line text. **Range** N/A
definition_type	String	**Definition** Field definition type. Used to distinguish system fields from custom fields. **Range** - **1**: system field • **2**: system field • **3**: system field • **4**: tenant-defined field • **5**: project-defined field
show_on_card	Boolean	**Definition** Whether to display in the sprint dashboard card mode of the cloud service type. **Range** • **true**: displayed • **false**: not displayed

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Parameter	Type	Description
optional	Boolean	**Definition** Whether the field is mandatory. **Range** • **true**: mandatory • **false**: optional
controlled	Boolean	**Definition** Whether the field is controlled. If a work item has been baselined, changing the value of a controlled field will trigger a change review. **Range** • **true**: controlled • **false**: not controlled
immutable	Boolean	**Definition** Whether the field is immutable. The update API cannot update immutable fields. **Range** • **true**: immutable • **false**: mutable
no	Integer	**Definition** Field sequence number. Smaller values are displayed first. **Range** An integer ranging from 0 to 9999.
default_value	String	**Definition** Default value of a field. Automatically filled when a work item is created. **Range** N/A
option	**OptionEntity** object	**Definition** Field option. Options of a single-choice list field, including the option ID, code, and display name. **Range** N/A

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Parameter	Type	Description
all_options	Array of **OptionEntity** objects	**Definition** All options of a field. All options of a multi-choice list field. The array elements include the option ID, code, and display name. **Range** N/A
has_same_display_name	Boolean	**Definition** Whether fields with the same name exist. It is used to detect field name conflicts. **Range** • **true**: Fields with the same name exist. • **false**: No fields with the same name.

Table 4-1282 OptionEntity

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A
code	String	**Definition** Code value of an option. **Range** N/A
display_value	String	**Definition** Option name. **Range** N/A
value	String	**Definition** Unique option ID. **Range** N/A

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Parameter	Type	Description
level	Integer	**Definition** Number of option levels. **Range** The value is an integer ranging from 1 to 4.
sequence	Integer	**Definition** Sequence number of an option. Smaller values are displayed first. **Range** 0 to 2147483647
parent_id	String	**Definition** Parent option ID. Identifier of the parent option in the level option. The top option is empty or null. **Range** 2 to 32 characters.

Status code: 400

Table 4-1283 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/05c7d8bcf3db4829bc841e4ba93aaea5/categories/10021/field/templates?page=1&size=10
```

Example Responses

Status code: 200

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```
{
  "page" : {
    "page" : 1,
    "size" : 10,
    "count" : 15
  },
  "result" : [ {
    "id" : "10042",
    "display_name" : "Priority",
    "created_by" : "System",
    "field_type" : "pick",
    "show_on_card" : false,
    "optional" : true,
    "all_options" : [ {
      "id" : "1135144056192544813",
      "code" : "High",
      "display_value" : "High",
      "value" : "High",
      "level" : 1,
      "sequence" : 1
    } ],
    "default_value" : ""
  } ]
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssueFieldsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
```

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```
                .build();
        ListIssueFieldsRequest request = new ListIssueFieldsRequest();
        request.withProjectId("{project_id}");
        request.withCategoryId("{category_id}");
        try {
            ListIssueFieldsResponse response = client.listIssueFields(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueFieldsRequest()
        request.project_id = "{project_id}"
        request.category_id = "{category_id}"
        response = client.list_issue_fields(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
```

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```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueFieldsRequest{}
    request.ProjectId = "{project_id}"
    request.CategoryId = "{category_id}"
    response, err := client.ListIssueFields(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.22 IPD Workflow

4.22.1 Obtaining Details of a Workflow and Its Transition Lines

Function

This API is used to obtain details of a workflow and its transition lines.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/workflow-template

Table 4-1284 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1285 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default Value** N/A

Request Parameters

Table 4-1286 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1287 Response body parameters

Parameter	Type	Description
result	**WorkflowTemplateVO** object	**Definition** Query result. **Range** N/A
status	String	**Definition** Status code. **Range** N/A
message	String	**Definition** Response message. **Range** N/A

Table 4-1288 WorkflowTemplateVO

Parameter	Type	Description
processNodes	Array of **WorkflowTemplateNodesVO** objects	**Definition** Status information in a status flow. **Range** N/A
processFlows	Array of **WorkflowTemplateFlowsVO** objects	**Definition** Transition line information in a status flow. **Range** N/A

Table 4-1289 WorkflowTemplateNodesVO

Parameter	Type	Description
name	String	**Definition** Status name. **Range** N/A

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Table 4-1290 WorkflowTemplateFlowsVO

Parameter	Type	Description
before_rule_validator	Array of **WorkflowTemplateConfigsVO** objects	**Definition** Pre-transition verification. **Range** N/A
before_rule_configs	Array of **WorkflowTemplateConfigsVO** objects	**Definition** In-transition page configuration. **Range** N/A
from_code	String	**Definition** Entry status of a transition line. **Range** N/A
to_code	String	**Definition** Exit status of a transition line. **Range** N/A

Table 4-1291 WorkflowTemplateConfigsVO

Parameter	Type	Description
configValue	Array of Map<String,String> objects	**Definition** Operation item configuration. **Range** N/A

Status code: 400

Table 4-1292 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/workflow-template?issue_category=RR
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "process_nodes" : [ {
      "code" : "Analyse",
      "name" : "Analysis"
    } ],
    "process_flows" : [ {
      "code" : "Analyse2ToBeConfirmed",
      "name" : "Turn back",
      "from_code" : "Analyse",
      "to_code" : "ToBeConfirmed",
      "before_rule_configs" : [ ],
      "before_rule_validator" : [ ]
    } ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;
```

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```
public class ShowWorkflowTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowWorkflowTemplateRequest request = new ShowWorkflowTemplateRequest();
        request.withProjectId("{project_id}");
        try {
            ShowWorkflowTemplateResponse response = client.showWorkflowTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowWorkflowTemplateRequest()
        request.project_id = "{project_id}"
        response = client.show_workflow_template(request)
```

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```
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowWorkflowTemplateRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowWorkflowTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.22.2 Querying Workflow Field Configuration

Function

This API is used to query workflow field configuration.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/workflow-template/issue/fields

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Table 4-1293 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1294 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default Value** N/A

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Request Parameters

Table 4-1295 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1296 Response body parameters

Parameter	Type	Description
result	Object	**Definition** Query result. **Range** N/A
status	String	**Definition** Status code. **Range** N/A
message	String	**Definition** Response message. **Range** N/A

Status code: 400

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Table 4-1297 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/workflow-template/issue/fields?issue_category=RR
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "config_fields" : [ {
      "display_name" : "Turn-back Conclusion",
      "show" : false,
      "show_editable" : false,
      "optional" : true,
      "controlled" : false,
      "issue_roles" : null
    } ]
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
```

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```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIssueConfigFieldsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIssueConfigFieldsRequest request = new ShowIssueConfigFieldsRequest();
        request.withProjectId("{project_id}");
        try {
            ShowIssueConfigFieldsResponse response = client.showIssueConfigFields(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()
```

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```
    try:
        request = ShowIssueConfigFieldsRequest()
        request.project_id = "{project_id}"
        response = client.show_issue_config_fields(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowIssueConfigFieldsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowIssueConfigFields(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.23 IPD Work Item Process

4.23.1 Transitioning the Work Item Status

Function

This API is used to transition the status of a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-item/flow/transfer

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Table 4-1298 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1299 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

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Table 4-1300 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
issue_category	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default Value** N/A

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Parameter	Mandatory	Type	Description
flow_code	Yes	String	**Definition** Work item transition code. It can be obtained by calling the API for **querying work item process information**. The **next_flow** array in the response body is the workflow transition line. You can find the matching transition line based on the current status **from_code** and target status **to_code**. The value of the **code** field of the transition line is the work item transition code. **Constraints** N/A **Range** N/A **Default Value** N/A
issue_ids	No	Array of strings	**Definition** Unique ID array of work items. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
process_context	No	Map<String,Object>	**Definition** Transition context. **Constraints** N/A **Range** N/A **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-1301 Response body parameters

Parameter	Type	Description
status	String	**Definition** Status code. **Range** N/A
message	String	**Definition** Response message. **Range** N/A
result	**WorkItemFlowInfoVO** object	**Definition** Response body of workflow details. **Range** N/A

Table 4-1302 WorkItemFlowInfoVO

Parameter	Type	Description
process_instance	**WorkItemFlowProcessInstanceVO** object	**Definition** Work item workflow instance information. **Range** N/A
next_flow	Array of **FlowsInfoVO** objects	**Definition** Valid transition lines. **Range** N/A

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Table 4-1303 WorkItemFlowProcessInstanceVO

Parameter	Type	Description
process_instance	**WorkItemFlowProcessInstanceVO** object	**Definition** Work item workflow instance information. **Range** N/A
next_flow	Array of **FlowsInfoVO** objects	**Definition** Valid transition lines. **Range** N/A
id	String	**Definition** ID of a work item workflow instance. **Range** N/A
flow_state	Integer	**Definition** Whether a workflow instance is suspended. **Range** **1**: running **2**: suspended

Table 4-1304 FlowsInfoVO

Parameter	Type	Description
code	String	**Definition** Transition line code. **Range** N/A
name	String	**Definition** Transition line name. **Range** N/A
description	String	**Definition** Transition line description. **Range** N/A

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Parameter	Type	Description
from_code	String	**Definition** Code of the current workflow node. **Range** N/A
to_code	String	**Definition** Code of the target workflow node. **Range** N/A

Status code: 400

Table 4-1305 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
POST https://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/work-item/flow/transfer

{
  "id" : "1135239465657217024",
  "issue_category" : "Bug",
  "flow_code" : "__virtual_Analyse__2__Fixed"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null
}
```

Status code: 400

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```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class TransferWorkItemFlowSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        TransferWorkItemFlowRequest request = new TransferWorkItemFlowRequest();
        request.withProjectId("{project_id}");
        WorkItemFlowRequestBody body = new WorkItemFlowRequestBody();
        body.withFlowCode("__virtual_Analyse__2__Fixed");
        body.withIssueCategory("Bug");
        body.withId("11352394656572170 24");
        request.withBody(body);
        try {
            TransferWorkItemFlowResponse response = client.transferWorkItemFlow(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = TransferWorkItemFlowRequest()
        request.project_id = "{project_id}"
        request.body = WorkItemFlowRequestBody(
            flow_code="__virtual_Analyse__2__Fixed",
            issue_category="Bug",
            id="1135239465657217024"
        )
        response = client.transfer_work_item_flow(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
```

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```
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.TransferWorkItemFlowRequest{}
    request.ProjectId = "{project_id}"
    flowCodeWorkItemFlowRequestBody:= "__virtual_Analyse__2__Fixed"
    issueCategoryWorkItemFlowRequestBody:= "Bug"
    idWorkItemFlowRequestBody:= "1135239465657217024"
    request.Body = &model.WorkItemFlowRequestBody{
        FlowCode: &flowCodeWorkItemFlowRequestBody,
        IssueCategory: &issueCategoryWorkItemFlowRequestBody,
        Id: &idWorkItemFlowRequestBody,
    }
    response, err := client.TransferWorkItemFlow(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.23.2 Transitioning Work Item Statuses in Batches

Function

This API is used to transition work item statuses in batches.

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Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v1/ipdprojectservice/projects/{project_id}/work-item/processes/transfer-batch

Table 4-1306 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1307 Query Parameters

Parameter	Mandatory	Type	Description
is_recover	No	Boolean	**Definition** Whether to overwrite the corresponding field. **Constraints** N/A **Range** **true**: The corresponding field values in the current dialog box will overwrite the values for that field in all selected work items. **false**: The fields of the selected work items (except for **Current Owner**) that already have a value will remain unchanged and will not be overwritten by the values from the current dialog box. **Default Value** **false**

Request Parameters

Table 4-1308 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

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Table 4-1309 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
issue_category	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default Value** N/A

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Parameter	Mandatory	Type	Description
flow_code	Yes	String	**Definition** Work item transition code. It can be obtained by calling the API for **querying work item process information**. The **next_flow** array in the response body is the workflow transition line. You can find the matching transition line based on the current status **from_code** and target status **to_code**. The value of the **code** field of the transition line is the work item transition code. **Constraints** N/A **Range** N/A **Default Value** N/A
issue_ids	No	Array of strings	**Definition** Unique ID array of work items. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** N/A **Default Value** N/A
process_context	No	Map<String,Object>	**Definition** Transition context. **Constraints** N/A **Range** N/A **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-1310 Response body parameters

Parameter	Type	Description
status	String	**Definition** Status code. **Range** N/A
message	String	**Definition** Response message. **Range** N/A
result	**BatchResultVOIssueWithReasonVO** object	**Definition**: Response body of performing operations on basic information. **Value range**: N/A

Table 4-1311 BatchResultVOIssueWithReasonVO

Parameter	Type	Description
success_num	Integer	**Definition**: Number of successful batch operations. **Value range**: N/A
fail_num	Integer	**Definition**: Number of failed batch operations. **Value range**: N/A
failed	Array of **IssueWithReasonVO** objects	**Definition**: Data that fails to be operated in batches and failure causes. **Value range**: N/A

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Table 4-1312 IssueWithReasonVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Range** N/A
category	String	**Definition** Work item type. **Range** Multiple values are supported. Use commas (,) to separate them. • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
title	String	**Definition** Work item title. **Range** N/A
number	String	**Definition** Unique number of a work item. **Range** N/A
reason	String	**Definition** Operation failure cause. **Range** N/A

Example Requests

Transferring bugs in batches and overwriting the corresponding fields.

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/e5c9c13a20a7495a8237c8e81471c8c7/work-item/processes/transfer-batch?is_recover=true

{
  "issue_ids" : [ "1167829636360347649" ],
  "issue_category" : "Bug",
```

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```
  "flow_code" : "Analyse2Fixed",
  "process_context" : {
    "attach_work_item_attribute_validator" : {
      "assignee" : "09d25f5d3f80d2881fd7c008ecf1622b",
      "reason_analysis" : "<p><span style=\"font-size: 14px; color: rgb(25, 25, 25);\">Possible Causes</
span></p>"
    },
    "attach_flow_attribute_validator" : { }
  }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "success_num" : 0,
    "fail_num" : 1,
    "failed" : [ {
      "id" : "1096034499808894976",
      "category" : "Bug",
      "title" : "Work item title",
      "number" : "BUG20250211986398",
      "reason" : "The current status has been transferred asynchronously and cannot be transferred to the
target status."
    } ]
  }
}
```

Status Codes

Status Code	Description
200	Response to a successful request for transitioning work item processes in batches.

Error Codes

See **Error Codes**.

4.23.3 Querying Work Item Process Information

Function

This API is used to query work item process information.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v1/ipdprojectservice/projects/{project_id}/work-item/{issue_id}/flow/detail

Table 4-1313 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-1314 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	**Definition** Work item type. **Constraints** N/A **Range** Multiple work item types are supported, separated by commas (,), for example, **category=IR,SR,AR**. • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **code** in the response body is the work item type code. **Default Value** N/A

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Request Parameters

Table 4-1315 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1316 Response body parameters

Parameter	Type	Description
status	String	**Definition** Status code. **Range** N/A
message	String	**Definition** Response message. **Range** N/A
result	**WorkItemFlowInfoVO** object	**Definition** Response body of workflow details. **Range** N/A

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Table 4-1317 WorkItemFlowInfoVO

Parameter	Type	Description
process_instance	**WorkItemFlowProcessInstanceVO** object	**Definition** Work item workflow instance information. **Range** N/A
next_flow	Array of **FlowsInfoVO** objects	**Definition** Valid transition lines. **Range** N/A

Table 4-1318 WorkItemFlowProcessInstanceVO

Parameter	Type	Description
process_instance	**WorkItemFlowProcessInstanceVO** object	**Definition** Work item workflow instance information. **Range** N/A
next_flow	Array of **FlowsInfoVO** objects	**Definition** Valid transition lines. **Range** N/A
id	String	**Definition** ID of a work item workflow instance. **Range** N/A
flow_state	Integer	**Definition** Whether a workflow instance is suspended. **Range** **1**: running **2**: suspended

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Table 4-1319 FlowsInfoVO

Parameter	Type	Description
code	String	**Definition** Transition line code. **Range** N/A
name	String	**Definition** Transition line name. **Range** N/A
description	String	**Definition** Transition line description. **Range** N/A
from_code	String	**Definition** Code of the current workflow node. **Range** N/A
to_code	String	**Definition** Code of the target workflow node. **Range** N/A

Example Requests

Query workflow information of work item IR with ID **1169236596358213632**.

```
GET https://{endpoint}/v1/ipdprojectservice/projects/9df557a4017d4b1b9cd53b96e44a4a50/work-item/1169236596358213632/flow/detail?issue_category=IR
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "process_instance" : {
      "id" : "1169236596680073217",
      "flow_state" : 1
    },
    "next_flow" : [ {
      "code" : "__virtual_Start__2__Analyse",
      "name" : "",
      "description" : null,
      "extra_config" : null,
```

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```
    "from_code" : "Start",
    "to_code" : "Analyse"
  }, {
    "code" : "__virtual_Start__2__Develop",
    "name" : "",
    "description" : null,
    "extra_config" : null,
    "from_code" : "Start",
    "to_code" : "Develop"
  } ],
  "fail_result" : null
 }
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying the work item process information.

Error Codes

See **Error Codes**.

4.24 IPD Plan Snapshot Management

4.24.1 Querying the Work Item Plan Management Snapshot List

Function

This API is used to query the work item snapshot list based on the work item ID.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:iteration:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/plan/snapshots/issues/{issue_id}

Table 4-1320 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-1321 Response body parameters

Parameter	Type	Description
result	Array of **SnapshotsVO** objects	**Definition** Snapshot list. **Range** N/A
status	String	**Definition** Request status. **Range** 0 to 32 characters.
message	String	**Definition** Request failure information. **Range** 0 to 1,024 characters.

Table 4-1322 SnapshotsVO

Parameter	Type	Description
title	String	**Definition** Snapshot title. **Range** 0 to 512 characters.
issue_id	String	**Definition** Work item ID. **Range** 0 to 512 characters.
snapshot2workitem	Map<String,**IssueVO**>	**Definition** Snapshot record work item. **Range** N/A

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Parameter	Type	Description
created_by	String	**Definition** Creator ID. **Range** 0 to 512 characters.
modified_by	String	**Definition** ID of the last modifier. **Range** 0 to 512 characters.
category	String	**Definition** Work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code.
description	String	**Definition** Description. **Range** 0 to 512 characters.

Table 4-1323 IssueVO

Parameter	Type	Description
sys_analysis_conclusion	String	**Definition** Analysis conclusion, which is filled during RR acceptance. **Range** N/A

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Parameter	Type	Description
sys_remark	String	**Definition** Remarks. This field is filled during RR submission for acceptance. **Range** N/A
promised	**OptionVO** object	**Definition** Promised or not. This field is filled during RR acceptance. **Range** N/A
type	String	**Definition** Work item type. **Range** • **requirement** (R&D requirement) • **raw requirement** • **bug** • **task** **feature**
belong_inside	String	**Definition** Whether a work item is submitted across projects. **Range** • **1**: submitted across projects • **0**: submitted within a project
src_domain	**DomainVO** object	**Definition** ID of the project space where the work item is created. **Range** N/A
domain_id	**DomainVO** object	**Definition** ID of the project space to which the work item belongs. **Range** N/A

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Parameter	Type	Description
send_from	String	**Definition** ID of the raw requirement's upstream requirement. **Range** N/A
number	String	**Definition** Work item ID, which consists of the work item type, year, month, day, and six random digits. For example, an IR created on September 30, 2025 may be numbered **RR20250930982833**. **Range** N/A
send_to	String	**Definition** ID of the raw requirement's downstream requirement. **Range** N/A
path	String	**Definition** Path between the parent and child work items. **Range** N/A
workload_man_day	String	**Definition** Planned workloads of a work item. **Range** N/A
sys_check_conclusion	String	**Definition** Acceptance conclusion. This field is filled during RR acceptance. **Range** N/A
id	String	**Definition** Unique ID of a work item. **Range** N/A

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Parameter	Type	Description
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin • **Deleted**: permanently deleted work items that cannot be restored
stay_days	Integer	**Definition** Number of days that a work item stays in the current status. **Range** N/A
assigned_cc	Array of **UserVO** objects	**Definition** Cc recipient. **Range** N/A
submit_time	String	**Definition** Submission time of a work item. It is the time when the work item enters the workflow, rather than the creation time. **Range** N/A
workitem2label	Array of **WorkItemLabelVO** objects	**Definition** Work item label. **Range** N/A
sys_return_conclusion	String	**Definition** Reason for return. This field is filled when an RR/bug is returned. **Range** N/A
close_time	String	**Definition** Completion time of a work item. **Range** N/A

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Parameter	Type	Description
priority	**OptionVO** object	**Definition** Priority. **Range** • Low • Medium • High
modified_date	String	**Definition** Last modification time of a work item. **Range** N/A
created_by	**UserVO** object	**Definition** Work item creator. **Range** N/A
break_status	**OptionVO** object	**Definition** Breakdown status. **Range** N/A
status_modified_date	String	**Definition** Time when the work item was last transferred, which can be used to calculate the stay days. The value is a UNIX timestamp in milliseconds. **Range** N/A
expect_delivery_time	String	**Definition** Expected completion time. The value is a UNIX timestamp in milliseconds. **Range** N/A
parent_id	String	**Definition** Parent work item ID of a work item. **Range** N/A

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Parameter	Type	Description
assignee	**UserVO** object	**Definition** Owner. **Range** N/A
region	String	**Definition** Domain of the tenant to which the work item belongs. **Range** N/A
status	**AlmStatus** object	**Definition** Work item status. **Range** N/A
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. **Range** N/A
plan_pi	**PlanVO** object	**Definition** Release to which a work item belongs. **Range** N/A
link	String	**Definition** Relationship field of the associated work item. Use commas (,) to separate multiple values. **Range** N/A
description	String	**Definition** Work item description. A maximum of 500,000 characters are supported. **Range** N/A
is_suspended	**OptionVO** object	**Definition** Suspended or not. **Range** N/A

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Parameter	Type	Description
change_status	**OptionVO** object	**Definition** Change review status of a work item. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
sum_workload_man_day	String	**Definition** Actual workloads of a work item. **Range** N/A
sys_close_reason	String	**Definition** Reason for closing a work item. **Range** N/A
sys_resubmit_reason	String	**Definition** Reason for resubmission, which is used when resubmitting a returned RR/bug. **Range** N/A
plan_end_date	String	**Definition** Planned completion time of a work item. **Range** N/A
rr2ir	String	**Definition** ID of the child IR of an RR. Use commas (,) to separate multiple values. **Range** N/A
category_layer_id	String	**Definition** Work item type level ID. **Range** N/A

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Parameter	Type	Description
submitted_by	Array of **UserVO** objects	**Definition** Work item submitter. **Range** N/A
rr2us	String	**Definition** ID of the child US of an RR. Use commas (,) to separate multiple values. **Range** N/A
sys_no_develop_reason	String	**Definition** Reason why no development is requirement for the work item. **Range** N/A
plan_iteration	**PlanVO** object	**Definition** Sprint to which the work item belongs. **Range** N/A
sys_return_reason	String	**Definition** Reason for return. It is usually used when returning an RR/bug. **Range** N/A
cascade_delete	String	**Definition** Flag indicating whether to perform cascading deletion. **Range** N/A
recipient	Array of **UserVO** objects	**Definition** Receiver. It is usually used for RRs. **Range** N/A
modified_by	Array of **UserVO** objects	**Definition** Last modifier of a work item. **Range** N/A

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Parameter	Type	Description
created_date	String	**Definition** Creation time of a work item. **Range** N/A
category	String	**Definition** Work item type. **Range** • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
collaborative_status	String	**Definition** Collaboration status of an R&D requirement. **Range** N/A
project	**DomainVO** object	**Definition** Project to which the work item belongs. **Range** N/A
child_issues	Map<String,**IssueVO**>	**Definition** Child work item list. **Range** N/A
activate_times	Integer	**Definition** Number of activation times. The value is automatically assigned when the bug is activated. **Range** N/A
baseline	**OptionVO** object	**Definition** Work item baseline status. **Range** N/A

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Parameter	Type	Description
business_domain	OptionVO object	**Definition** Domain of a work item. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
children	String	**Definition** ID of a child work item. Use commas (,) to separate multiple values. **Range** N/A
collaborative_history	String	**Definition** Change history of a collaborative requirement's status. The value is a JSON string. **Range** N/A

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Parameter	Type	Description
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A
convolution_actual_hours	String	**Definition** Actual roll-up workloads, summed from the actual workloads of all the child and collaborative work items. **Range** N/A
convolution_plan_hours	String	**Definition** Planned roll-up workloads, summed from the planned workloads of all the child and collaborative work items. **Range** N/A
develop_owner	String	**Definition** Development owner. This field is usually used for nodes in the developing status. **Range** N/A
done_ratio	**OptionVO** object	**Definition** Progress. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. **Range** N/A
feature2ir	String	**Definition** ID of the child IR of an SF. Use commas (,) to separate multiple values. **Range** N/A

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Parameter	Type	Description
feature_set	**OptionVO** object	**Definition** Feature set to which the SF belongs. **Range** N/A
found_env	**OptionVO** object	**Definition** Environment. **Range** N/A
found_iteration	**PlanVO** object	**Definition** Sprint. **Range** N/A
found_pi	**PlanVO** object	**Definition** Release. **Range** N/A
function_scene	String	**Definition** Function scenario. **Range** N/A
ir2feature	String	**Definition** ID of the SF associated with an IR. An IR can be associated with only one SF. **Range** N/A
ir2rr	String	**Definition** ID of the parent RR associated with an IR. Use commas (,) to separate multiple values. **Range** N/A
issue_opinion_id	String	**Definition** ID of the decision comment associated with a work item. **Range** N/A

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Parameter	Type	Description
issue_review_id	String	**Definition** ID of the review comment associated with a work item. **Range** N/A
module	**OptionVO** object	**Definition** Module. **Range** N/A
need_break	**OptionVO** object	**Definition** Whether work item breakdown is required. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.
need_develop	**OptionVO** object	**Definition** Whether development is required. **Range** N/A
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** N/A
no_develop_reason	String	**Definition** Reason for no development required. **Range** N/A
order	Integer	**Definition** Priority order. **Range** 1–100
plan_dev_end_date	String	**Definition** Planned development end time. This field is usually used for nodes in the developing status. The value is a UNIX timestamp in milliseconds. **Range** N/A

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Parameter	Type	Description
plan_processing_end_date	String	**Definition** Planned end time of processing. This field is usually used for in-progress nodes. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_researchanddevelop_end_date	String	**Definition** Planned R&D end time. This field is usually used for nodes in the R&D status. The value is a UNIX timestamp in milliseconds. **Range** N/A
plan_test_end_date	String	**Definition** Planned test end time. This field is usually used for nodes in the testing status. The value is a UNIX timestamp in milliseconds. **Range** N/A
position_float	String	**Definition** Initial position of a work item in the list. **Range** N/A
processing_owner	String	**Definition** Owner for in-progress nodes. This field is usually used for in-progress nodes. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** N/A

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Parameter	Type	Description
regression_failure_number	Integer	**Definition** Number of times that regression failed. This field is automatically assigned when the bug test fails. **Range** N/A
related_network_security	**OptionVO** object	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
repair_solution	String	**Definition** Fix solution. This field is usually used for bugs. **Range** N/A
researchanddevelop_owner	String	**Definition** R&D owner. This field is usually used for nodes in the R&D status. **Range** N/A
severity	**OptionVO** object	**Definition** Severity. **Range** N/A
sys_activation_reason	String	**Definition** Severity. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is used when the bug does not need to be fixed. **Range** N/A

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Parameter	Type	Description
test_failures_times	Integer	**Definition** Number of times that the test failed. **Range** N/A
test_owner	String	**Definition** Test owner. This field is usually used for nodes in the testing status. **Range** N/A
test_report	String	**Definition** Test report. **Range** N/A
val_feature	**OptionVO** object	**Definition** Value feature. **Range** N/A
workitem2ganttchart	String	**Definition** ID of the Gantt chart associated with a work item. **Range** N/A
workitem2mindmap	String	**Definition** ID of the mind map associated with a work item. **Range** N/A

Table 4-1324 WorkItemLabelVO

Parameter	Type	Description
id	String	**Definition** Label ID. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
category	String	**Definition** Object type. **Range** **Label**
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**

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Parameter	Type	Description
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue
title	String	**Definition** Label title. **Range** 1 to 30 characters.
type	String	**Definition** Data type of the current object. **Range** **label**

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Parameter	Type	Description
state	String	**Definition** Lifecycle of a label. **Range** **In use**: The label is normal and can be used. **Discarded**: The label has been deleted and cannot be used. **Deleted**: The project to which the label belongs has been deleted and the label cannot be used.
modified_by	String	**Definition** Last modifier. **Range** N/A

Table 4-1325 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Table 4-1326 AlmStatus

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A

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Parameter	Type	Description
belonging	String	**Definition** Work item status. **Range** **START**: **To Do** state, such as **Initial** or **Analyzing**. **IN_PROGRESS**: **Doing** state, such as **Fixing**, **Testing**, or **In R&D**. **END**: **Done** state, such as **Closed** or **Completed**.
space_id	String	**Definition** ID of the project space to which the status belongs. **Range** N/A
name	String	**Definition** Status name. **Range** N/A
code	String	**Definition** Status code. **Range** N/A
definition_type	String	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. **Range** N/A

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Parameter	Type	Description
belong_definition_type	Integer	**Definition** Status definition level. The values **1**, **2**, and **3** indicate the system level, the value **4** indicates the tenant-defined level, and the value **5** indicates the project-defined level. It is different from **definition_type**. If the definition level is system-level or tenant-defined, a copy of metadata is copied to the project space. **Range** N/A
display_value	String	**Definition** Status name, which is the same as the value of **name**. **Range** N/A
position	Integer	**Definition** Position sequence. **Range** N/A
displayable	Integer	**Definition** Display or not. **Range** N/A
editable	Integer	**Definition** Editable or not. **Range** N/A
deletable	Integer	**Definition** Deletable or not. **Range** N/A
mutable	Integer	**Definition** Whether the status value is fixed. **Range** N/A

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Parameter	Type	Description
title_py	String	**Definition** Initial letters of a title. **Range** N/A
created_by	String	**Definition** User ID of the creator. **Range** N/A
created_date	Integer	**Definition** Creation time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_date	Integer	**Definition** Last modification time. The value is a UNIX timestamp in milliseconds. **Range** N/A
modified_by	String	**Definition** ID of the last modifier. **Range** N/A
linkage_node_fields	Boolean	**Definition** Whether to add the node owner/end time in the workflow configuration. **Range** **true**: The node owner/end time can be added to the status flow node. **false**: The node owner/end time cannot be added to the status flow node.

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Table 4-1327 DomainVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a project space. **Range** N/A
name	String	**Definition** Project space name. **Range** N/A
title	String	**Definition** Project space name. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project space. **Range** N/A
parent_id	String	**Definition** Parent project space ID of the project space, which is used only in programs. **Range** N/A
category	String	**Definition** Project space type. **Range** • **Project** • **Group**
created_by	String	**Definition** ID of the project space creator. **Range** N/A
model_id	String	**Definition** Model ID corresponding to the project space. **Range** • **10001**: system device • **10002**: standalone software

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Table 4-1328 PlanVO

Parameter	Type	Description
id	String	**Definition**: ID of a release, sprint, or milestone. **Value range**: N/A
title	String	**Definition**: Title. **Options**: N/A
category	String	**Definition**: Type. The value is of the enumerated type. **Value range**: **PI**: release **Iteration**: sprint **PlanMilestone**: milestone
description	String	**Definition**: Description **Options**: N/A
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.

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Parameter	Type	Description
status	String	**Definition**: Release/Sprint status. The value is of the enumerated type. **Value range**: **planned**: not started **going**: ongoing **ended**
children	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	String	**Definition** Planned start time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
plan_end_date	String	**Definition** Planned completion time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
created_date	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A

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Parameter	Type	Description
parent_id	String	**Definition** Parent work item ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** N/A
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Table 4-1329 OptionVO

Parameter	Type	Description
id	String	**Definition** Option ID. **Range** N/A

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Parameter	Type	Description
display_value	String	**Definition** Option name. **Range** N/A
value	String	**Definition** Unique ID of an option. The ID and value of a custom option are the same. **Range** N/A
code	String	**Definition** Option code. **Range** N/A
value_py	String	**Definition** Initial letter of the Chinese pinyin of the option name. **Range** N/A
sequence	Integer	**Definition** Option's position in the list. **Range** N/A
level	Integer	**Definition** Hierarchical depth (**1**, **2**, **3**, or **4**) of an option. For single-choice and multi-choice lists, the value is **1**. **Range** **1**: first level. Options in both single-choice and multi-choice lists belong to the first level. **2**: second level. **3**: third level. **4**: fourth level.
domain_id	String	**Definition** ID of the project space to which the option belongs. **Range** N/A

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Parameter	Type	Description
belong_definition_type	String	**Definition** Definition level of the option. **1**, **2**, and **3** indicate the system level, **4** indicates the tenant-defined level, and **5** indicates the project-defined level. **Range** **1**: system-preset option. **2**: system-preset option. **3**: system-preset option. **4**: tenant-defined option. **5**: project-defined option.

Status code: 400

Table 4-1330 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/81c01f46bacb4ccb9d167eeb13b39492/plan/snapshots/issues/1023282173190385665
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : [ {
    "path" : "/1281629341017878528",
    "region" : "roma-dg-7",
    "id" : "1281629341017878528",
    "title" : "IR v26.07.08.1",
    "tenant_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
```

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```
  "issue_id" : "1278755202640818176",
  "snapshot2workitem" : {
    "IR" : {
      "tenant_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
      "position_float" : "9999999996.0678440000",
      "link" : "",
      "description" : "<p>[Background]</p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p><img
data-src=\"/api/ipdproject/v1/projects/9919c49270f24584bfd99cf468704688/imgs/
63624517320d4df6953bd3a0e28fef13.png\" src=\"/api/ipdproject/v1/projects/
9919c49270f24584bfd99cf468704688/imgs/63624517320d4df6953bd3a0e28fef13.png\" data-image-id=
\"img0\" devui-editorx-image=\"true\" style=\"vertical-align: baseline;\">",
      "type" : "requirement",
      "title" : "IR-E2E tracing",
      "descendants" : "1278755202640818176",
      "domain_id" : {
        "id" : "1276960103044919297",
        "state" : "In use",
        "title" : "IPD-System device 0625001",
        "project_id" : "9919c49270f24584bfd99cf468704688",
        "category" : "Project",
        "created_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
        "modified_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
        "tenant_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
        "model_id" : "10001",
        "project_template_id" : "10001",
        "category_template_id" : "10001",
        "feature_template_id" : "10001",
        "created_date" : "2026-06-25T17:43:33Z"
      },
      "sum_workload_man_day" : "12.0",
      "path" : "/1278755202640818176",
      "number" : "IR20260630026183",
      "ir2rr" : "",
      "root_id" : "1278755202640818176",
      "id" : "1278755202640818176",
      "state" : "In use",
      "ir2feature" : "",
      "need_break" : {
        "id" : "1276960107109199995",
        "field_id" : "10164",
        "display_value" : "Yes",
        "value" : "yes",
        "code" : "yes",
        "value_py" : "yes",
        "sequence" : 1,
        "level" : 1,
        "domain_id" : "1276960103044919297",
        "belong_definition_type" : "5"
      },
      "related_network_security" : {
        "id" : "1276960107109199878",
        "field_id" : "10258",
        "display_value" : "No",
        "value" : "no",
        "code" : "no",
        "value_py" : "no",
        "sequence" : 2,
        "level" : 1,
        "domain_id" : "1276960103044919297",
        "belong_definition_type" : "5"
      },
      "category_layer_id" : "10001",
      "submitted_by" : [ {
        "user_id" : "029f95b680474fa396fcaba6a73954af",
        "user_name" : "creq_chm2",
        "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
        "nick_name" : "",
        "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
        "role_name" : "Project manager",
```


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```
    "role_alias_name" : "Project manager",
    "role_code" : "Project manager"
  } ],
  "workitem2label" : null,
  "baseline" : {
    "id" : "1276960107109199903",
    "field_id" : "10106",
    "display_value" : "Baselined",
    "value" : "baselined",
    "code" : "baselined",
    "value_py" : "baselined",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "1276960103044919297",
    "belong_definition_type" : "5"
  },
  "priority" : {
    "id" : "1276960107109199909",
    "field_id" : "10042",
    "display_value" : "Medium",
    "value" : "Medium",
    "code" : "Medium",
    "value_py" : "2",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "1276960103044919297",
    "belong_definition_type" : "5"
  },
  "modified_date" : "1783073007920",
  "created_by" : {
    "user_id" : "029f95b680474fa396fcaba6a73954af",
    "user_name" : "creq_chm2",
    "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
    "nick_name" : "",
    "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
    "role_name" : "Project manager",
    "role_alias_name" : "Project manager",
    "role_code" : "Project manager"
  },
  "break_status" : {
    "id" : "1276960107109199918",
    "field_id" : "10253",
    "display_value" : "Undecomposed",
    "value" : "undecomposed",
    "code" : "undecomposed",
    "value_py" : "undecomposed",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "1276960103044919297",
    "belong_definition_type" : "5"
  },
  "status_modified_date" : "1782808598494",
  "cascade_delete" : "none",
  "modified_by" : {
    "user_id" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
    "user_name" : "creq_chm1",
    "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
    "nick_name" : "",
    "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f,e8b7a70b3d0d4c639823889498e00afe",
    "role_name" : "Project admin,Project manager",
    "role_alias_name" : "Project manager,Project admin",
    "role_code" : "Project manager,project_admin"
  },
  "business_domain" : {
    "id" : "1276960107109199972",
    "field_id" : "10024",
    "display_value" : "Software",
    "value" : "software",
    "code" : "software",
```


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```
      "value_py" : "rj",
      "sequence" : 1,
      "level" : 1,
      "domain_id" : "1276960103044919297",
      "belong_definition_type" : "5"
    },
    "assignee" : {
      "user_id" : "029f95b680474fa396fcaba6a73954af",
      "user_name" : "creq_chm2",
      "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
      "nick_name" : "",
      "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
      "role_name" : "Project manager",
      "role_alias_name" : "Project manager",
      "role_code" : "Project manager"
    },
    "created_date" : "1782808598427",
    "region" : "roma-dg-7",
    "category" : "IR",
    "status" : {
      "id" : "1276960107478298626",
      "belonging" : "START",
      "space_id" : "1276960103044919297",
      "name" : "Initial",
      "code" : "Start",
      "definition_type" : "5",
      "belong_definition_type" : 3,
      "display_value" : "Initial",
      "position" : 1,
      "displayable" : 1,
      "editable" : 1,
      "deletable" : 1,
      "mutable" : 1,
      "title_py" : "cs",
      "created_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "created_date" : "1782380614394",
      "modified_date" : "1782380614394",
      "modified_by" : "d3775f2d201f423f9eeaa0b06f8f1b8f",
      "linkage_node_fields" : false
    }
  },
  "id" : "1278755202640818176"
},
"created_by" : {
  "user_id" : "029f95b680474fa396fcaba6a73954af",
  "user_name" : "creq_chm2",
  "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
  "nick_name" : "",
  "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
  "role_name" : "Project manager",
  "role_code" : "Project manager"
},
"created_date" : "1783493846420",
"modified_by" : {
  "user_id" : "029f95b680474fa396fcaba6a73954af",
  "user_name" : "creq_chm2",
  "domain_id" : "7e110bd5ff4e49fbacb683a2da7f79da",
  "nick_name" : "",
  "role_id" : "1cf8f0078f6847ee8ccc23b24fe4267f",
  "role_name" : "Project manager",
  "role_code" : "Project manager"
},
"modified_date" : "1783493846420",
"domain_id" : "1276960103044919297",
"category" : "issue_snap_item",
"type" : "snapshot_item",
"snap_base_info_id" : null,
"issue_category" : "IR",
"parent_id" : null,
```


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```
    "root_id" : "1281629341017878528",
    "parent_full_path" : null,
    "parent_path" : null,
    "full_path" : "/1281629341017878528",
    "version_number" : 1,
    "deletable" : true,
    "category_name" : "Work item snapshot."
  } ],
  "page" : {
    "total" : "1",
    "page_size" : "20",
    "page_no" : "1"
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssueSprintSnapshotsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueSprintSnapshotsRequest request = new ListIssueSprintSnapshotsRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        try {
            ListIssueSprintSnapshotsResponse response = client.listIssueSprintSnapshots(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
```

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```
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueSprintSnapshotsRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        response = client.list_issue_sprint_snapshots(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

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```
    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueSprintSnapshotsRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    response, err := client.ListIssueSprintSnapshots(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.25 IPD Workload Management

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4.25.1 Querying the Work Hour List Based on Criteria (Pagination)

Function

This API is used to query the workload list by condition.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-hour/query

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Table 4-1331 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1332 Request body parameters

Parameter	Mandatory	Type	Description
params	Yes	**WorkHourParamVO** object	**Definition** Condition input parameter.
page_info	Yes	**RequestPageInfoVO** object	**Definition** Pagination parameter

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Table 4-1333 WorkHourParamVO

Parameter	Mandatory	Type	Description
plan_pi	No	Array of strings	**Definition** Array of release plan IDs, which can be obtained using the API for **querying the release/sprint plan details**. The value of the **id** field in the response message body is the release plan ID. **Constraints** N/A **Range** N/A **Default Value** N/A
plan_iteration	No	Array of strings	**Definition** Array of sprint plan IDs, which can be obtained using the API for **querying the release/sprint plan details**. The value of the **id** field in the response message body is the sprint plan ID. **Constraints** N/A **Range** N/A **Default Value** N/A
workitem_id	No	Array of strings	**Definition** Array of work item IDs, which can be obtained using the API for **querying work item details**. The value of the **id** field in the response message body is the work item ID. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
created_by	No	Array of strings	**Definition** Creator ID array. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-1334 RequestPageInfoVO

Parameter	Mandatory	Type	Description
offset	Yes	String	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** Start from 0. **Range** Min. 0. **Default Value** 0
limit	Yes	String	**Definition** Number of records displayed on each page. The maximum value is **200**. **Constraints** N/A **Range** 1 to 200. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1335 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Response body message. **Range** N/A
result	Array of **WorkHourInfoVO** objects	**Definition** Return data.
page	**PageVO** object	**Definition** Pagination information.

Table 4-1336 WorkHourInfoVO

Parameter	Type	Description
workitem	**workitem** object	**Definition** Work item information.
work_date	String	**Definition** Work date, which is a Unix timestamp (unit: millisecond). **Range** N/A
created_by	**UserEntity** object	**Definition** Creator information.
work_hour_category	String	**Definition** Unique ID of the work type. If the value is set to **value**, the value displayed on the page is **display_value**. **Range** N/A

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Parameter	Type	Description
work_hours	String	**Definition** Workload. **Range** N/A

Table 4-1337 workitem

Parameter	Type	Description
plan_pi	String	**Definition** Release plan ID. **Range** N/A
sum_workload_man_day	String	**Definition** Actual workloads. **Range** N/A
workload_man_day	String	**Definition** Planned workloads. **Range** N/A
convolution_plan_hours	String	**Definition** Planned roll-up workloads. **Range** N/A
convolution_actual_hours	String	**Definition** Actual roll-up workloads. **Range** N/A
id	String	**Definition** Work item ID. **Range** N/A
plan_iteration	String	**Definition** Sprint ID. **Range** N/A

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Table 4-1338 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Table 4-1339 PageVO

Parameter	Type	Description
page	String	**Definition** Current page. **Range** N/A
size	String	**Definition** Number of records on each page. **Range** N/A
count	String	**Definition** Total number. **Range** N/A

Status code: 400

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Table 4-1340 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying work hours in a project by work item ID

```
POST https://{endpoint}/v1/ipdprojectservice/projects/05c7d8bcf3db4829bc841e4ba93aaea5/work-hour/query

{
  "params" : {
    "plan_pi" : [ ],
    "plan_iteration" : [ ],
    "workitem_id" : [ "976857692367659008" ],
    "created_by" : [ ]
  },
  "page_info" : {
    "offset" : 0,
    "limit" : 200
  }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "workitem" : {
      "plan_pi" : null,
      "sum_workload_man_day" : "112.00",
      "convolution_actual_hours" : null,
      "id" : "976857692367659008",
      "plan_iteration" : null
    },
    "work_date" : "1706803200000",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "work_hour_category" : "R&D design",
    "work_hours" : 6
  } ],
  "page" : {
```

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```
  "page" : 1,
  "size" : 200,
  "count" : 1
 }
}
```

Status Codes

Status Code	Description
200	Returning work hour and pagination information
400	Error response body.

Error Codes

See **Error Codes**.

4.25.2 Creating Work Hours

Function

This API is used to create work hours.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-items/{workitem_id}/work-hour

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Table 4-1341 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
workitem_id	Yes	String	Work item ID.

Request Parameters

Table 4-1342 Request body parameters

Parameter	Mandatory	Type	Description
work_hour_category	No	String	**Definition** Work type. The value of the **display_value** field is displayed on the page, and the value of the **value** field is used as the input parameter of the API. **Constraints** N/A **Range** 0 to 512 characters. Obtain the value by calling the **Querying Work Types** API. **Default Value** N/A

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Parameter	Mandatory	Type	Description
work_date_begin	Yes	String	**Definition** Work start date. **Constraints** The start date cannot be later than the end date (work_date_end). **Range** Format: yyyy-MM-dd. **Default Value** N/A
work_date_end	Yes	String	**Definition** Work end date. **Constraints** The end date cannot be earlier than the start date (work_date_begin). **Range** Format: yyyy-MM-dd. **Default Value** N/A
work_hours	Yes	String	**Definition** Total workloads. **Constraints** The value must be a non-negative numeric string. When **work_hour_type** is set to **1**, the value indicates the total number of person-days from the start date to the end date. When **work_hour_type** is set to **2**, the value indicates the number of person-days per day. **Range** 0–100000 **Default Value** N/A

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Parameter	Mandatory	Type	Description
work_hour_type	Yes	String	**Definition** Workload calculation type, which defines the **work_hours** field. **Constraints** N/A **Range** • **1**: total (The **work_hours** field indicates the total number of workloads from the start date to the end date.) • **2**: daily (The **work_hours** field indicates the number of workloads per day from the start date to the end date.) **Default Value** N/A
include_weekend	Yes	Boolean	**Definition** Whether to include weekends in workload calculation. **Constraints** N/A **Range** • **true**: include weekends • **false**: exclude weekends **Default Value** false
description	No	String	**Definition** Workload description. **Constraints** N/A **Range** 0 to 10,000 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1343 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The workload is successfully created. • **error**: Failed to create the workload.
message	String	**Definition** Response message. When the request fails, the failure cause is returned. **Range** 0 to 1,000 characters.
result	**WorkHourTotalVO** object	**Definition** List of workload information and total workloads. **Range** N/A

Table 4-1344 WorkHourTotalVO

Parameter	Type	Description
data	Array of **WorkHourVO** objects	Work hour information list.
work_hours_total	String	Total actual work hours.

Table 4-1345 WorkHourVO

Parameter	Type	Description
id	String	**Definition** Workload record ID. **Range** A string of 18 to 19 digits.
title	String	**Definition** Workload name. **Range** N/A

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Parameter	Type	Description
operation_id	String	**Definition** Operation ID, which identifies a specific operation record. **Range** N/A
description	String	**Definition** Description of the work content. **Range** Max. 10,000 characters.
workitem_id	String	**Definition** ID of the work item associated with the workload. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Range** A string of 18 to 19 digits.
work_date	String	**Definition** Timestamp of the work time, in milliseconds. **Range** N/A
created_by	**UserEntity** object	**Definition** Creator of the workload record.
modified_by	**UserEntity** object	**Definition** Information about the last person who modifies the workload record.
work_hour_category	String	**Definition** Work type. The value displayed on the page is **display_value**, and the unique ID is **value**. **Range** N/A
work_hours	Double	**Definition** Time spent (person-days). **Range** N/A

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Table 4-1346 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Status code: 400

Table 4-1347 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

100 person-days created from February 1 to 6, 2024; type: R&D design; weekends included

```
POST https://{endpoint}/v1/ipdprojectservice/projects/05c7d8bcf3db4829bc841e4ba93aaea5/work-items/976857692367659008/work-hour?_=1708329665577

{
```

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```
  "work_hour_category" : "R&D design",
  "work_date_begin" : "2024/02/01",
  "work_date_end" : "2024/02/02",
  "work_hours" : "12",
  "work_hour_type" : 1,
  "include_weekend" : true,
  "description" : "Work content"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "data" : [ {
      "work_date" : "1745337600000",
      "modified_by" : "testuser",
      "work_hour_category" : {
        "id" : "1",
        "display_value" : "Backend development",
        "value" : "Backend development",
        "value_py" : "hdkf",
        "sequence" : 2,
        "level" : 1,
        "domain_id" : "1",
        "created_by" : "testuser",
        "created_date" : 1744750470000,
        "modified_by" : "testuser",
        "modified_date" : 1744750470000,
        "belong_definition_type" : "5"
      },
      "description" : null,
      "operation_id" : "1",
      "id" : "1",
      "work_hours" : 0.5,
      "title" : null,
      "created_by" : "testuser"
    } ],
    "work_hours_total" : 1
  }
}
```

Status Codes

Status Code	Description
200	Response body for creating work hours.
400	Failure response body.

Error Codes

See **Error Codes**.

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4.25.3 Querying the Work Hour Type

Function

This API is used to query the work hour type.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:configuration:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/work-hour/options

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Table 4-1348 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1349 Query Parameters

Parameter	Mandatory	Type	Description
display_value	No	String	**Definition** Display name. Fuzzy search is supported. **Constraints** 0 to 30 characters. **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1350 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	**Definition** Message. **Range** N/A
result	Array of **WorkHourCategoryVO** objects	**Definition** Work type.

Table 4-1351 WorkHourCategoryVO

Parameter	Type	Description
id	String	**Definition** Workload type ID. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
value	String	**Definition** Unique ID of a workload type, which is used to transfer parameters through the API. **Range** • R&D design • Backend development • Frontend development (web) • Frontend development (mini program) • Frontend development (app) • Test and verification • Defect fixing • UI design • Meetings • Public affairs • Training • Research • Others • Replacement leave • Custom workload type
code	String	**Definition** Unique code of the work type. **Range** The value is the same as that of the **value** field.
sequence	Integer	**Definition** Display sequence number of a workload type. **Range** N/A

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Parameter	Type	Description
display_value	String	**Definition** Display name of the workload type, which is used for page display. **Range** • R&D design • Backend development • Frontend development (web) • Frontend development (mini program) • Frontend development (app) • Test and verification • Defect fixing • UI design • Meetings • Public affairs • Training • Research • Others • Replacement leave • Custom workload type
value_py	String	**Definition** Abbreviation of the workload type display name. **Range** N/A

Status code: 400

Table 4-1352 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Searching for work hour types whose name contain **development**

```
GET https://{endpoint}/v1/ipdprojectservice/projects/693d17d43d6340d782da7356efc584a7/work-hour/options?display_value=Development
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "977516004109099010",
    "value" : "Backend development",
    "code" : "Backend development",
    "sequence" : 0,
    "display_value" : "Backend development",
    "value_py" : "hdkf"
  }, {
    "id" : "977516004109099016",
    "value" : "Frontend development (web)",
    "code" : "Frontend development (web)",
    "sequence" : 0,
    "display_value" : "Frontend development (web)",
    "value_py" : "qdkfw"
  }, {
    "id" : "977516004109099008",
    "value" : "Frontend development (applet)",
    "code" : "Frontend development (applet)",
    "sequence" : 0,
    "display_value" : "Frontend development (applet)",
    "value_py" : "qdkfc"
  }, {
    "id" : "977516004109099011",
    "value" : "Frontend development (app)",
    "code" : "Frontend development (app)",
    "sequence" : 0,
    "display_value" : "Frontend development (app)",
    "value_py" : "qdkfa"
  } ]
}
```

Status Codes

Status Code	Description
200	Work hour type response body.

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Status Code	Description
400	Failure response body.

Error Codes

See **Error Codes**.

4.25.4 Modifying Workloads

Function

This API is used to modify workloads.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/projects/{project_id}/work-items/{issue_id}/work-hour/{workhour_id}

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Table 4-1353 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
workhour_id	Yes	String	Workload ID.

Request Parameters

Table 4-1354 Request body parameters

Parameter	Mandatory	Type	Description
work_hour_category	No	String	**value** is the unique identifier of the parameter and the value displayed on the page is **display_value**.

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Parameter	Mandatory	Type	Description
work_hours	No	String	Workloads.
description	No	String	Work content.

Response Parameters

Status code: 200

Table 4-1355 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The workload is successfully created. • **error**: Failed to create the workload.
message	String	**Definition** Response message. When the request fails, the failure cause is returned. **Range** 0 to 1,000 characters.
result	**WorkHourTotalVO** object	**Definition** List of workload information and total workloads. **Range** N/A

Table 4-1356 WorkHourTotalVO

Parameter	Type	Description
data	Array of **WorkHourVO** objects	Work hour information list.
work_hours_total	String	Total actual work hours.

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Table 4-1357 WorkHourVO

Parameter	Type	Description
id	String	**Definition** Workload record ID. **Range** A string of 18 to 19 digits.
title	String	**Definition** Workload name. **Range** N/A
operation_id	String	**Definition** Operation ID, which identifies a specific operation record. **Range** N/A
description	String	**Definition** Description of the work content. **Range** Max. 10,000 characters.
workitem_id	String	**Definition** ID of the work item associated with the workload. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Range** A string of 18 to 19 digits.
work_date	String	**Definition** Timestamp of the work time, in milliseconds. **Range** N/A
created_by	**UserEntity** object	**Definition** Creator of the workload record.
modified_by	**UserEntity** object	**Definition** Information about the last person who modifies the workload record.

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Parameter	Type	Description
work_hour_category	String	**Definition** Work type. The value displayed on the page is **display_value**, and the unique ID is **value**. **Range** N/A
work_hours	Double	**Definition** Time spent (person-days). **Range** N/A

Table 4-1358 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Status code: 400

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Table 4-1359 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Modifying workloads

```
PUT https://{endpoint}/v1/projects/dbf92424384e46dd9829492abe533829/work-items/
1038401818296492033/work-hour/1038556057203286016

{
  "work_hours" : "321",
  "work_hour_category" : "Backend development",
  "description" : "Work content."
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "data" : [ {
      "id" : "1038556057203286016",
      "description" : "1133",
      "workitem_id" : "1038401818296492033",
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "t"
      },
      "modified_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "t"
      },
      "work_hour_category" : "Backend development",
      "work_hours" : 321
    } ],
    "work_hours_total" : 387.7
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
```

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```
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Returned workload information and total workloads
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.25.5 Deleting Workloads by the Workload ID

Function

This API is used to delete workloads by the workload ID.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workhour:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v1/projects/{project_id}/work-items/{issue_id}/work-hour/{workhour_id}

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Table 4-1360 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
workhour_id	Yes	String	Workload ID.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1361 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The workload is successfully created. • **error**: Failed to create the workload.
message	String	**Definition** Response message. When the request fails, the failure cause is returned. **Range** 0 to 1,000 characters.
result	**WorkHourTotalVO** object	**Definition** List of workload information and total workloads. **Range** N/A

Table 4-1362 WorkHourTotalVO

Parameter	Type	Description
data	Array of **WorkHourVO** objects	Work hour information list.
work_hours_total	String	Total actual work hours.

Table 4-1363 WorkHourVO

Parameter	Type	Description
id	String	**Definition** Workload record ID. **Range** A string of 18 to 19 digits.
title	String	**Definition** Workload name. **Range** N/A

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Parameter	Type	Description
operation_id	String	**Definition** Operation ID, which identifies a specific operation record. **Range** N/A
description	String	**Definition** Description of the work content. **Range** Max. 10,000 characters.
workitem_id	String	**Definition** ID of the work item associated with the workload. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Range** A string of 18 to 19 digits.
work_date	String	**Definition** Timestamp of the work time, in milliseconds. **Range** N/A
created_by	**UserEntity** object	**Definition** Creator of the workload record.
modified_by	**UserEntity** object	**Definition** Information about the last person who modifies the workload record.
work_hour_category	String	**Definition** Work type. The value displayed on the page is **display_value**, and the unique ID is **value**. **Range** N/A
work_hours	Double	**Definition** Time spent (person-days). **Range** N/A

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Table 4-1364 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Status code: 400

Table 4-1365 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Deleting workloads by the workload ID

```
DELETE https://{endpoint}/v1/projects/dbf92424384e46dd9829492abe533829/work-items/1038401818296492033/work-hour/1038556057215868930
```

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Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "data" : [ {
      "id" : "1038556057215868930",
      "modified_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "t"
      }
    } ],
    "work_hours_total" : 0
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Returned workload information and total workloads
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.26 IPD Feature/Feature Set Management

4.26.1 Creating Feature Sets (Reserved for Batch Operation)

Function

This API is used to create a feature set. Currently, only one feature set can be created at a time. The function of batch operations is reserved.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/feature-sets

Table 4-1366 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1367 Request body parameters

Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Feature set title. **Constraints** N/A **Range** 2 to 256 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
parent_id	Yes	String	**Definition** Parent feature set ID. Obtain the value of this parameter using the **Querying Feature Sets** API. The value of **id** in the response body is the feature set ID. **Constraints** A string of 18 to 19 digits. The **parent_id** of the root feature set is an empty string or "0". **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1368 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	Error message.
result	**FeatureSetOperateParam** object	Request parameter object for creating and modifying a feature set.

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Table 4-1369 FeatureSetOperateParam

Parameter	Type	Description
id	String	**Definition** Feature set ID. The value is automatically generated by the system during creation and is mandatory for update. **Range** N/A
title	String	**Definition** Feature set title. **Range** 2 to 256 characters.
position_float	Float	**Definition** Relative position of the feature set in the directory tree. The value is a floating point number starting from 0. Scientific notation is not supported. This parameter is used to control the sorting of feature sets. **Range** [0,999999999999)
parent_id	String	**Definition** Parent feature set ID. Obtain the value of this parameter using the **Querying Feature Sets** API. The value of **id** in the response body is the feature set ID. **Range** N/A

Status code: 400

Table 4-1370 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A

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Parameter	Type	Description
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
POST https://{endpoint}/v1/ipdprojectservice/projects/7102a33f44db4dacab136e1f6890ef86/feature-sets

{
  "title" : "This Is a Feature Set Under 222",
  "parent_id" : "981924601614213120"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "title" : "111c",
    "position_float" : 3,
    "parent_id" : "981957734821834752"
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Response to a successful operation.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.26.2 Editing a Feature Set

Function

This API is used to modify the title, parent feature set, and relative position information of a feature set.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

PUT /v1/ipdprojectservice/projects/{project_id}/feature-sets/{feature_set_id}

Table 4-1371 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
feature_set_id	Yes	String	**Definition** Feature set ID, which is unique. Obtain the value of this parameter using the **Querying Feature Sets** API. The value of **id** in the response body is the feature set ID. **Constraints** A string of 18 or 19 digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-1372 Request body parameters

Parameter	Mandatory	Type	Description
title	No	String	**Definition** Feature set title. **Constraints** N/A **Range** 2 to 256 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
position_float	No	Float	**Definition** Relative position of the feature set in the directory tree. The value is a floating point number starting from 0. Scientific notation is not supported. This parameter is used to control the sorting of feature sets. **Constraints** Scientific notation is not supported. **Range** [0,999999999999) **Default Value** N/A
parent_id	Yes	String	**Definition** Parent feature set ID. Obtain the value of this parameter using the **Querying Feature Sets** API. The value of **id** in the response body is the feature set ID. **Constraints** This parameter is mandatory. The original parent feature set ID needs to be specified only when modifying the location and title. The target feature set ID shall be specified when modifying the feature set directory. A string of 18 to 19 digits. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1373 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is returned successfully. • **error**: The response fails.
message	String	Error message.
result	**FeatureSetOperateParam** object	Request parameter object for creating and modifying a feature set.

Table 4-1374 FeatureSetOperateParam

Parameter	Type	Description
id	String	**Definition** Feature set ID. The value is automatically generated by the system during creation and is mandatory for update. **Range** N/A
title	String	**Definition** Feature set title. **Range** 2 to 256 characters.
position_float	Float	**Definition** Relative position of the feature set in the directory tree. The value is a floating point number starting from 0. Scientific notation is not supported. This parameter is used to control the sorting of feature sets. **Range** [0,999999999999)

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Parameter	Type	Description
parent_id	String	**Definition** Parent feature set ID. Obtain the value of this parameter using the **Querying Feature Sets** API. The value of **id** in the response body is the feature set ID. **Range** N/A

Status code: 400

Table 4-1375 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/feature-sets/{feature_set_id}

{
  "title" : "This Is a Two-Layer Feature Set 3",
  "position_float" : 1,
  "parent_id" : "981924129047359488"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "title" : "This Is a Two-Layer Feature Set 3",
    "parent_id" : "981924129047359488"
  }
}
```

Status code: 400

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```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Success response
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.26.3 Deleting a Feature Set

Function

This API is used to delete a specified feature set.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:featureSet:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/feature-sets/{feature_set_id}

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Table 4-1376 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
feature_set_id	Yes	String	Feature set ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1377 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	**Definition** Error message returned when the request fails. **Range** N/A

Status code: 400

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Table 4-1378 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/7102a33f44db4dacab136e1f6890ef86/feature-sets/981999442182709248
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Success response
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.26.4 Querying the Snapshot Version of a Feature Set

Function

This API is used to query the snapshot version list of all feature sets in a project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:featureSet:getBaseline	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/snapshots/version

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Table 4-1379 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Request Parameters

Table 4-1380 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1381 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The feature set snapshot version is successfully queried. • **error**: Failed to query the feature set snapshot version.
message	String	**Definition** Returned message. **Range** N/A
result	Array of **SnapshotsTitleVO** objects	**Definition** Feature set snapshot version list data.

Table 4-1382 SnapshotsTitleVO

Parameter	Type	Description
id	String	**Definition** Feature set snapshot version ID. Obtain the value of this parameter using the **Querying Feature Set Snapshot Version** API. The value of **id** in the response body is the snapshot version ID. **Range** A string of 18 to 19 digits.
title	String	**Definition** Snapshot version title of a feature set, which is used to identify and distinguish different snapshot versions. **Range** 0 to 512 characters.
created_by	**UserEntity** object	**Definition** Creator information of a snapshot version, including the user ID, username, and nickname.

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Parameter	Type	Description
modified_by	**UserEntity** object	**Definition** Latest modifier information of a snapshot version, including the user ID, username, and nickname.
created_date	String	**Definition** Timestamp when a snapshot version is created. **Range** A string of 13 to 14 digits.
modified_date	String	**Definition** Latest modification timestamp of a snapshot version. **Range** A string of 13 to 14 digits.

Table 4-1383 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Status code: 400

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Table 4-1384 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying all feature set snapshot versions in a project

```
GET https://{endpoint}/v1/ipdprojectservice/projects/b7262b36cfa84b09a27f7896e1fdefc6/snapshots/version
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "981644868612829184",
    "title" : "1-2-1 Snapshot",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1711971974000",
    "modified_date" : "1711971974000"
  }, {
    "id" : "981645326705139713",
    "title" : "1-2-2 Snapshot",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1711972083000",
    "modified_date" : "1711972083000"
  }, {
    "id" : "982005155140513792",
```


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```
    "title" : "Equivalent to the Current Version",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1712057873000",
    "modified_date" : "1712057873000"
  } ]
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	The feature set snapshot version is successfully queried.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.26.5 Querying a Feature Set by Snapshot Version

Function

This API is used to query a feature set by snapshot version.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:featureSet:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/feature-set/query

Table 4-1385 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1386 Query Parameters

Parameter	Mandatory	Type	Description
snapshot_version_id	No	String	Feature set snapshot version ID. If this parameter is not specified, the feature set of the current version is queried. If this parameter is specified, the feature set of the corresponding version is queried.

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-1387 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.
message	String	Message.
result	Array of **FeatureSetOpenApiVO** objects	Returned result.

Table 4-1388 FeatureSetOpenApiVO

Parameter	Type	Description
id	String	Feature set ID.
number	String	No.
parent_id	String	Parent feature set ID.
title	String	Title.
position_float	String	Location information.
created_by	**UserEntity** object	Creator information.
modified_by	**UserEntity** object	Modifier information.
created_date	String	**Definition** Timestamp when a feature set is created. **Range** N/A

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Parameter	Type	Description
modified_date	String	**Definition** Timestamp when a feature set is modified. **Range** N/A
child_fs	Array of **FeatureSetOpenApiVO** objects	Sub-feature set.

Table 4-1389 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Example Requests

- Querying the feature set data of Snapshot Version 981644868612829184 in Project b7262b36cfa84b09a27f7896e1fdefc6

  ```
  GET https://{endpoint}/v1/ipdprojectservice/projects/b7262b36cfa84b09a27f7896e1fdefc6/feature-set/query?snapshot_version_id=981644868612829184
  ```

- Querying the feature set data of the current version of Project b7262b36cfa84b09a27f7896e1fdefc6

  ```
  GET https://{endpoint}/v1/ipdprojectservice/projects/b7262b36cfa84b09a27f7896e1fdefc6/feature-set/query
  ```

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Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "981644262727655424",
    "number" : "FS20240401737948",
    "parent_id" : null,
    "title" : "mod1-min-0325-1 Feature Tree",
    "position_float" : 2,
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1711971830000",
    "modified_date" : "1711971830000",
    "child_fs" : [ {
      "id" : "978983008897904641",
      "number" : "FS20240325720621",
      "parent_id" : "981644262727655424",
      "title" : "mod1-min-0325-1 Feature Tree",
      "position_float" : 1,
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "modified_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Test account"
      },
      "created_date" : "1711337337000",
      "modified_date" : "1711971830000",
      "child_fs" : [ {
        "id" : "981644718250041344",
        "number" : "FS20240401737949",
        "parent_id" : "978983008897904641",
        "title" : "1-1",
        "position_float" : 1,
        "created_by" : {
          "id" : "a360371833bf4c558f796fd707b44daf",
          "name" : "devcloud_devcloud_01",
          "nick_name" : "Test account"
        },
        "modified_by" : {
          "id" : "a360371833bf4c558f796fd707b44daf",
          "name" : "devcloud_devcloud_01",
          "nick_name" : "Test account"
        },
        "created_date" : "1711971938000",
        "modified_date" : "1711971938000",
        "child_fs" : [ {
          "id" : "981847412113842176",
          "number" : "FS20240402738983",
          "parent_id" : "981644718250041344",
          "title" : "11",
          "position_float" : 1,
          "created_by" : {
            "id" : "a360371833bf4c558f796fd707b44daf",
```


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```
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1712020264000",
    "modified_date" : "1712020264000",
    "child_fs" : null
  } ]
}, {
  "id" : "981644750294523904",
  "number" : "FS20240401737950",
  "parent_id" : "978983008897904641",
  "title" : "1-2",
  "position_float" : 2,
  "created_by" : {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account"
  },
  "modified_by" : {
    "id" : "a360371833bf4c558f796fd707b44daf",
    "name" : "devcloud_devcloud_01",
    "nick_name" : "Test account"
  },
  "created_date" : "1711971946000",
  "modified_date" : "1711971946000",
  "child_fs" : [ {
    "id" : "981644805718056960",
    "number" : "FS20240401737951",
    "parent_id" : "981644750294523904",
    "title" : "1-2-1",
    "position_float" : 1,
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1711971959000",
    "modified_date" : "1711971959000",
    "child_fs" : null
  }, {
    "id" : "981644911709302785",
    "number" : "FS20240401738018",
    "parent_id" : "981644750294523904",
    "title" : "1-2-2",
    "position_float" : 2,
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_date" : "1711971985000",
    "modified_date" : "1711972027000",
    "child_fs" : null
  } ]
```


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```
    } ]
  } ]
 } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowBaselineSnapshotsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowBaselineSnapshotsRequest request = new ShowBaselineSnapshotsRequest();
        request.withProjectId("{project_id}");
        try {
            ShowBaselineSnapshotsResponse response = client.showBaselineSnapshots(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

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```
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowBaselineSnapshotsRequest()
        request.project_id = "{project_id}"
        response = client.show_baseline_snapshots(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
```

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```
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowBaselineSnapshotsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowBaselineSnapshots(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Querying the response body of a feature set based on the snapshot version

Error Codes

See **Error Codes**.

4.26.6 Querying Features by Snapshot And Feature Set

Function

This API is used to query features based on the snapshot version ID and feature set ID. All sub-feature sets are queried based on the input feature set ID.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:featureSet:getBaseline	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/snapshots-feature/query

Table 4-1390 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

Table 4-1391 Query Parameters

Parameter	Mandatory	Type	Description
snapshot_version_id	Yes	String	Feature set snapshot version ID.
feature_set_id	Yes	String	Feature set ID. The system searches for feature sets based on the current ID. If the root node ID is provided, all feature set data is queried.

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value must be a multiple of **limit**. **Range** ≥ 0 **Default Value** 0
limit	No	Integer	**Definition** Number of data records returned on each page. **Constraints** N/A **Range** 1 to 200. **Default Value** 20

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1392 Response body parameters

Parameter	Type	Description
result	**IssueEntityPageResult** object	**Definition** Work item tree diagram API.
status	String	**Definition** Response status. **Range** • **success**: The response is successful. • **error**: The response fails.

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Parameter	Type	Description
message	String	**Definition** Query failure cause. **Range** N/A

Table 4-1393 IssueEntityPageResult

Parameter	Type	Description
issues	Array of **IssueInfoVO** objects	**Definition** Work item list.
total	Integer	**Definition** Total number of work items. **Range** N/A

Table 4-1394 IssueInfoVO

Parameter	Type	Description
id	String	**Definition** ID of the work item to be updated. **Range** N/A
title	String	**Definition** Work item title. **Range** N/A
description	String	**Definition** Work item description field. **Range** N/A

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Parameter	Type	Description
type	String	**Definition** Work item category definition. **Range** • **requirement**: R&D requirement. • **bug**: Defect. • **task**: Task. • **feature**: Feature. • **raw_requirement**: Raw requirement.
number	String	**Definition** Work item ID. **Range** N/A
category	String	**Definition** Work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Cloud service projects: **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**.
parent_id	String	**Definition** Parent work item ID. **Range** N/A
project_id	String	**Definition** 32-character UUID of a project, which must be unique. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Work item status code. **Range** • **Start**: Initial. • **Analyse**: To be analyzed. • **Develop**: Developing. • **Test**: Testing. • **Finish**: Completed.
state	String	**Definition** Work item lifecycle. **Range** • **In use**: work items that can be operated properly • **Discarded**: soft-deleted work items that can be restored from the recycle bin
assignee	**UserEntity** object	**Definition** Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition** Cc recipient of a work item. Multiple Cc recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition** Work item creator.
created_time	String	**Definition** Work item creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
modified_by	**UserEntity** object	**Definition** Latest updater of a work item.
modified_time	String	**Definition** Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Range** N/A

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Parameter	Type	Description
plan_end_date	String	**Definition** Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Range** N/A
close_time	String	**Definition** Work item closure time, which is a Unix timestamp (unit: millisecond). **Range** N/A
workload	String	**Definition** Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999999999.9. **Range** 0-999999999.9
workload_sum	String	**Definition** Actual workloads of a work item. **Range** 0-999999999.9
tenant_id	String	**Definition** ID of the tenant to which the work item belongs. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Range** N/A
link	String	**Definition** IDs of associated items of a work item. **Range** N/A
suspended	Boolean	**Definition** Whether a work item is suspended. **Range** **true** and **false**

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Parameter	Type	Description
status_modified_time	String	**Definition** Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Range** N/A
labels	Array of **LabelEntity** objects	**Definition** Work item label.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition** Work item custom field mapping. System fields added by users are also listed here. The structure is as follows: "code": Field code. "value": Field value.
children	Array of **IssueInfoVO** objects	**Definition** Child work item set of a work item.
path	String	**Definition** Path of a child work item. **Range** N/A
ir2feature	String	**Definition** Association field of IRs and SFs.
need_break	String	**Definition** Whether a work item needs to be broken down. **Range** • **yes**: Breakdown is required. • **no**: Breakdown is not required.

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Parameter	Type	Description
break_status	String	**Definition** Decomposition status. **decomposed**: Decomposed. **undecomposed**: Undecomposed. --: N/A. **Range** • **decomposed**: Decomposed. • **undecomposed**: Undecomposed. • --: N/A.
baseline	String	**Definition** Work item baseline status. **Range** • **null**: not baselined • **baselined** • **baseline-reviewing**: baseline review in progress
priority	String	**Definition** Work item priority. Some work items have this field. **Range** • Low • Medium • High
related_network_security	String	**Definition** Whether network security is involved. **Range** • yes: Network security is involved. • no: Network security is not involved.
collaboratives	String	**Definition** R&D requirement collaboration task ID. Obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Range** N/A

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Parameter	Type	Description
business_domain	String	**Definition** Domain field. **Range** • software • soft-hardware • hardware • Performance • Functions • O&M • Operations • User experience • Privacy protection • Compliance • Resilience (reliability/availability) • Resilience (hazard detection and recovery) • Transparent • Harmless • Security • API • Cost • Maintainability • Other DFX • Availability • others
plan_pi	String	**Definition** Work item release plan ID. **Range** N/A
plan_iteration	String	**Definition** ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. **Range** N/A

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Parameter	Type	Description
change_status	String	**Definition** Work item change status. **change-reviewing**: Change reviewing. **changed**: Changed. **unchange** or **null**: Not changed. **Range** • **change-reviewing**: Change reviewing. • **changed**: Changed. • **unchanged**: Not changed. • **null**: Not changed.
no_break_reason	String	**Definition** Reason for no breakdown required. **Range** 0 to 512 characters.
submitted_by	Array of **UserEntity** objects	**Definition** Work item proposer.
ir2rr	String	**Definition** ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Range** N/A
feature_set	String	**Definition** Feature set ID. **Range** N/A
expected_repair_date	String	**Definition** Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Range** N/A

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Parameter	Type	Description
found_pi	String	**Definition** ID of the release plan where a bug is found. This field is available only for bugs. **Range** N/A
found_iteration	String	**Definition** ID of the sprint plan where a bug is found. This field is available only for bugs. **Range** N/A
reason_analysis	String	**Definition** Reason analysis. **Range** 0 to 50,000 characters.
repair_solution	String	**Definition** Fix solution. This field is available only for bugs. **Range** N/A
test_report	String	**Definition** Test report. This field is available only for bugs. **Range** N/A
sys_no_repair_reason	String	**Definition** Reason why rectification is not required. This field is available only for bugs. **Range** N/A
sys_activation_reason	String	**Definition** Activation reason. This field is available only for bugs. **Range** N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition** Reason for return. This field is available only for bugs. **Range** N/A
test_failures_times	Integer	**Definition** Number of times that regression failed. This field is available only for bugs. **Range** N/A
close_type	String	**Definition** Closure type. Among preset fields, only bugs have this field. The optional values are: **problem_solved**: Closed as problem solved. **problem_to_requirement**: Closed as problem converted to requirement. **duplicate_problem**: Closed as a duplicate problem. **not_a_problem**: Closed as not a problem. These correspond to problem solved closure, problem converted to requirement closure, duplicate problem closure, and non-problem closure, respectively. **Range** • **problem_solved**: Closed as problem solved. • **problem_to_requirement**: Closed as problem converted to requirement. • **duplicate_problem**: Closed as a duplicate problem. • **not_a_problem**: Closed as not a problem.

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Table 4-1395 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

Table 4-1396 LabelEntity

Parameter	Type	Description
id	String	**Definition** Label ID, which is the value of **id** in the response body returned by calling the API for **querying the label list**. **Range** A string of 18 to 19 digits.
category_types	Array of strings	**Definition** Code of the work item type to which a label belongs.

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Parameter	Type	Description
label_type	String	**Definition** Type of the work item to which the label belongs, corresponding to the type field of the work item. The options are as follows. **Range** • **raw requirement** • **feature** (system feature) • **requirement** (R&D requirement) • **task** • **bug**
color	String	**Definition** Label RGB color. **Range** The available color codes and their descriptions are as follows: • #86CAFF: light sky blue • #6DDEBB: aquamarine • #A6DD82: light green • #FAC20A: golden yellow • #FA9841: sandy orange • #F66F6A: light coral • #F3689A: pink • #A97AF8: medium purple • #71757F: slate gray • #5E7CE0: soft blue • #207AB3: steel blue • #169E6C: sea green • #6CA83B: olive green • #B58200: dark golden yellow • #B54E04: burnt orange • #B02121: dark red • #AD215B: dark pink • #572DB3: deep violet • #4F4F4F: dark gray • #3C51A6: indigo blue

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Parameter	Type	Description
title	String	**Definition** Label title. **Range** N/A

Table 4-1397 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition** Code of a custom field of a work item. Obtain the value from the **Querying Field Templates** API. The value is **code** in the response body. **Range** N/A
value	String	**Definition** Custom field value of a work item. **Range** N/A

Table 4-1398 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A

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Parameter	Type	Description
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

Status code: 400

Table 4-1399 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Querying features based on the snapshot version ID and feature set ID

```
GET https://{endpoint}/v1/ipdprojectservice/projects/b7262b36cfa84b09a27f7896e1fdefc6/snapshots-feature/query?
snapshot_version_id=98200515514051379 2&feature_set_id=981644262727655424&offset=0&limit=1
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "issues" : [ {
      "category" : "SF",
      "id" : "981645249521557504",
```

```
    "title" : "SF",
    "description" : "<p>[Feature background]</p><p><br></p><p>[Feature value]</p><p><br></
p><p>[Feature details]</p>",
    "type" : "feature",
    "number" : "SF20240401737955",
    "project_id" : "b7262b36cfa84b09a27f7896e1fdefc6",
    "status" : "Start",
    "state" : "Working",
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "created_time" : "1711972065000",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_01",
      "nick_name" : "Test account"
    },
    "modified_time" : "1712019887000",
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "link" : "",
    "status_modified_time" : "1711972065000",
    "custom_fields" : [ ],
    "path" : "/981645249521557504",
    "priority" : "Medium",
    "feature_set" : "981644805718056960"
   } ],
   "total" : 5
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	Common response body of work item data.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.27 E2E Tracing of IPD Projects

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4.27.1 Querying Work Item Associations

Function

This API is used to query the E2E tracing graph of a specified work item and display the upstream and downstream relationships of the work item, including parent/child work items, associated documents, code branches, code commits, and test cases.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/e2e/graphs

Table 4-1400 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Table 4-1401 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
category	Yes	String	**Definition** Work item type, which specifies the type of the work item to be queried. **Constraints** N/A **Range** • **RR**: raw requirement • **SF**: system feature • **IR**: R&D requirement • **SR**: system requirement • **AR**: allocated requirement • **Task** • **Bug** • **Epic** • **FE**: feature • **US**: user story **Default Value** N/A

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Parameter	Mandatory	Type	Description
is_src	No	Boolean	**Definition** Whether to query work items across projects. When the work item type is **RR** or **Bug**, set this parameter to **true** for querying work items in a project. **Constraints** N/A **Range** • **true**: cross-project query • **false**: query only in the current project **Default Value** false

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1402 Response body parameters

Parameter	Type	Description
id	String	**Definition** Work item ID. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Range** A string of 18 to 19 digits.

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Parameter	Type	Description
project_id	String	**Definition** Project ID, which uniquely identifies a project. Obtain the value by calling the **Querying the IPD Project List** API. The value of **id** in the response message body is the project ID. **Range** UUID string of 32 characters.
belonging	String	**Definition** Name of the requirement space. **Range** N/A
category	String	**Definition** Work item type. **Range** • **RR**: raw requirement • **SF**: system feature • **IR**: R&D requirement • **SR**: system requirement • **AR**: allocated requirement • **Task** • **Bug** • **Epic** • **FE**: feature • **US**: user story
number	String	**Definition** Work item ID, which is automatically generated by the system. **Range** N/A
status	String	**Definition** Work item status. **Range** N/A
title	String	**Definition** Work item title. **Range** Max. 256 characters.

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Parameter	Type	Description
trace_list	Array of **OpenAPIE2ETraceEntityMap** objects	**Definition** Trace item list, including the upstream and downstream relationships of work items. **Range** Max. 200 trace items.

Table 4-1403 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition** Security level field ID. **Range** N/A
display_value	String	**Definition** Security level field name. **Range** N/A
value	String	**Definition** Value of a custom security level field. **Range** N/A
code	String	**Definition** Security level code. **Range** N/A
sequence	Double	**Definition** Security level sorting value. A larger value indicates a higher security level. **Range** N/A

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Table 4-1404 OpenAPIE2ETraceEntityMap

Parameter	Type	Description
associate_type	String	**Definition** Work item association type. **Range** • **parent_issues**: associating parent work items • **child_issues**: associating child work items • **associate_workitems**: associating work items • **associate_documents**: associating documents • **associate_branches**: associating code branches • **associate_commits**: associating code commit records • **associate_mergerequest**: associating code merge requests • **associate_testcases**: associating test cases • **associate_testplans**: associating test plans • **wikis**: associating Wikis
direction	String	**Definition** Association direction. **Range** • **left**: upstream • **right**: downstream
sequence	String	**Definition** Display sequence number of the association type. **Range** N/A
entities	Array of **OpenAPIE2ETraceBaseEntity** objects	**Definition** List of trace item entities under the current association type. **Range** Max. 200 entities.

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Parameter	Type	Description
children	Array of **OpenAPIE2ETraceEntityMap** objects	**Definition** Sub-level trace item mapping list, which is used to display multi-level associations. **Range** Max. 200 sub-level mappings.
count	Integer	**Definition** Total number of trace items of the current association type. **Range** 0 to 100

Table 4-1405 OpenAPIE2ETraceBaseEntity

Parameter	Type	Description
id	String	**Definition** Trace item ID. For work items, the value is a string of 18 to 19 digits. For code commits, the value is a string. **Range** N/A
title	String	**Definition** Trace item title. **Range** Max. 256 characters.
belonging	String	**Definition** Name of the requirement space to which a trace item belongs. **Range** N/A
project_id	String	**Definition** ID of the project to which the trace item belongs. **Range** UUID string of 32 characters.

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Parameter	Type	Description
type	String	**Definition** Work item type of the trace item. **Range** • For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**.
storage_type	String	**Definition** Storage type, which is used for document trace items. **Range** • **local**: local storage • **obs**: OBS file library
category	String	**Definition** Trace item type, which is the same as the work item type. **Range** N/A
number	String	**Definition** Trace item ID (such as work item ID and code branch name). **Range** N/A
status	String	**Definition** Trace item status (only work items have status). **Range** N/A
commit_id	String	**Definition** Complete commit ID of a code commit (valid only for code commits). **Range** Git SHA-1 hash value.

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Parameter	Type	Description
commit_short_id	String	**Definition** Short commit ID (first seven characters) of a code commit. **Range** First seven characters of the Git SHA-1 hash value.
commit_msg	String	**Definition** Message of a code commit. **Range** Max. 512 characters.
commit_url	String	**Definition** URL of a code commit. **Range** N/A
uri	String	**Definition** URI of the trace item (used for external resources such as documents and Wikis). **Range** N/A

Status code: 400

Table 4-1406 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/58b214adfc834e0bb71c09e212759423/e2e/graphs?issue_id=11214596909615431 69&category=SF
```

Example Responses

Status code: 200


```
{
  "status" : "Initial",
  "id" : "1121459690961543169",
  "belonging" : "YCQ_IPD_M1_0419",
  "project_id" : "58b214adfc834e0bb71c09e212759423",
  "category" : "SF",
  "number" : "SF20250422376840",
  "title" : "SF Migration Test",
  "trace_list" : [ {
    "associate_type" : "associate_documents",
    "direction" : "right",
    "sequence" : 7,
    "entities" : [ ],
    "children" : [ ],
    "count" : 0
  }, {
    "associate_type" : "child_issues",
    "direction" : "right",
    "sequence" : 4,
    "entities" : [ ],
    "children" : [ ],
    "count" : 0
  }, {
    "associate_type" : "wikis",
    "direction" : "right",
    "sequence" : 8,
    "entities" : [ ],
    "children" : [ ],
    "count" : 0
  }, {
    "associate_type" : "associate_workitems",
    "direction" : "right",
    "sequence" : 6,
    "entities" : [ ],
    "children" : [ {
      "associate_type" : "Task",
      "direction" : "right",
      "sequence" : 8,
      "entities" : [ ],
      "children" : [ ],
      "count" : 0
    }, {
      "associate_type" : "RR",
      "direction" : "right",
      "sequence" : 1,
      "entities" : [ ],
      "children" : [ ],
      "count" : 0
    } ],
    "count" : 0
  }, {
    "associate_type" : "associate_testcases",
    "direction" : "right",
    "sequence" : 9,
    "entities" : [ ],
    "children" : [ ],
    "count" : 0
  } ]
}
```


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Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.28 IPD Status Management

4.28.1 Querying the Work Item Status

Function

This API is used to query the status information of a work item.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/category/{category_id}/statuses

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Table 4-1407 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
category_id	Yes	String	**Definition** Work item type ID, which uniquely identifies a work item type. **Constraints** Available values vary by project model: • IPD-system device: **10021** (RR), **10065** (SF), **10020** (IR), **10022** (SR), **10029** (AR), **10027** (task), and **10033** (bug) • IPD-standalone software: **10021** (RR), **10065** (SF), **10020** (IR), **10023** (US), **10027** (task), and **10033** (bug) Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The value of the **id** field in **categories** in the response body is the work item type ID. **Range** • **10020**: IR (R&D requirement) • **10021**: RR (raw requirement) • **10022**: SR (system requirement) • **10023**: US (user story) • **10027**: Task • **10029**: AR (allocated requirement) • **10033**: Bug (defect) • **10065**: SF (system feature) Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The value of the **id** field in **categories** in the response body is the work item type ID. **Default Value**

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Parameter	Mandatory	Type	Description
			N/A

Request Parameters

Table 4-1408 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** 10 to 32,768 characters **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1409 Response body parameters

Parameter	Type	Description
total	Integer	**Definition** Total number of queried records. **Range** N/A
result	Array of **StatusVO** objects	**Definition** Query result. **Range** N/A

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Parameter	Type	Description
status	String	**Definition** Status code. **Range** N/A
message	String	**Definition** Response message. **Range** N/A

Table 4-1410 StatusVO

Parameter	Type	Description
name	String	**Definition** Status name. **Range** N/A
belonging	String	**Definition** Work item status. **Range** **START**, **IN_PROGRESS**, and **END**

Status code: 400

Table 4-1411 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

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Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/category/10001/statuses
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "code" : "Start",
    "name" : "Initial",
    "belonging" : "START"
  } ],
  "total" : 1
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIssueStatuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueStatuesRequest request = new ListIssueStatuesRequest();
        request.withProjectId("{project_id}");
        request.withCategoryId("{category_id}");
```

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```
        try {
            ListIssueStatuesResponse response = client.listIssueStatues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueStatuesRequest()
        request.project_id = "{project_id}"
        request.category_id = "{category_id}"
        response = client.list_issue_statues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIssueStatuesRequest{}
    request.ProjectId = "{project_id}"
    request.CategoryId = "{category_id}"
    response, err := client.ListIssueStatues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to the request for querying the status information of a work item.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.29 Domains of a Scrum Project

4.29.1 Querying the Domain List (V2)

Function

This API is used to query the domain list (V2).

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/domain/domain

Table 4-1412 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
flag	Yes	Integer	**Definition**: Whether the domain is configured for a project. **Constraints**: N/A **Value range**: **0** (Not configured) **1** (Configured) **Default value**: N/A
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**

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Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

Request Parameters

Table 4-1413 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-1414 Response body parameters

Parameter	Type	Description
-	String	Response to a successful request for setting a domain.
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status.

Table 4-1415 result

Parameter	Type	Description
domains	Array of **domains** objects	**Definition**: Domains. **Value range**: N/A
total_count	Integer	**Definition**: Number of domains. **Value range**: N/A

Table 4-1416 domains

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Value range**: N/A
name	String	**Definition**: Domain name. **Value range**: N/A

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Parameter	Type	Description
flag	Integer	**Definition**: Whether the domain is configured for the project. **Value range**: **0** (not configured for the project) **1** (configured for the project)
project_id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
domain_id	Integer	**Definition**: Digital ID of a domain. **Value range**: N/A
project_uuid	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list (ListProjectsV4.xml). **Value range**: N/A
default_d	Integer	**Definition**: Default value of whether the domain is configured for the project. **Value range**: **1**

Example Requests

```
{endpoint}/v2/domain/domain?
project_id=5192de5eb435430c8cd41c6ae6028848&page_no=1&page_size=10&flag=1&_=1753181122622
```

Example Responses

Status code: 200

```
{
  "result": {
    "domains": [
      {
        "id": 14,
        "name": "Performance",
```

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```
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 14,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 15,
    "name": "Function",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 15,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 16,
    "name": "Reliability",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 16,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 17,
    "name": "Network safety",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 17,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 18,
    "name": "Maintainability",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 18,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 19,
    "name": "Other DFX",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 19,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 20,
    "name": "Availability",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 20,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 56599,
    "name": "111",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 56599,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 0,
  }
```


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```
    ],
    "total_count": 8
  },
  "status": "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying the domain list.

Error Codes

See **Error Codes**.

4.30 Work Item Workloads

4.30.1 Querying Detailed Workloads of a User

Function

This API is used to query detailed workloads of a user.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/work-hours/get-member-work-hours

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Request Parameters

Table 4-1417 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-1418 Request body parameters

Parameter	Mandatory	Type	Description
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_uuid	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
staff_id	No	String	**Definition**: User ID (both the user digital ID and user UUID are supported). You can query user ID information using the **Obtaining the Current User Information** API. The returned **user_id** is the user UUID, and **user_num_id** is the user ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-1419 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.

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Parameter	Type	Description
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-1420 result

Parameter	Type	Description
dataList	Array of **dataList** objects	**Definition**: List of workloads of project members.
total	Integer	**Definition**: Total number of workloads in the returned list. **Value range**: N/A

Table 4-1421 dataList

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a work item. **Value range**: N/A
subject	String	**Definition**: Work item title. **Value range**: N/A
summary	String	**Definition**: Workload content. **Value range**: N/A

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Parameter	Type	Description
created_on	String	**Definition**: Creation time in timestamp format, for example, **1747065600000**. **Value range**: N/A
work_date	String	**Definition**: Workload date, in the timestamp format, for example, **1747065600000**. **Value range**: N/A
work_hours	String	**Definition**: Workloads (unit: person-hour).
assigned_to	**assigned_to** object	**Definition**: Workload creator.
tracker	**Tracker** object	**Definition**: Work item type.

Table 4-1422 assigned_to

Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
image_id	String	**Definition**: User avatar. **Value range**: N/A

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Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-1423 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Example Requests

```
POST https://{endpoint}/v3/work-hours/get-member-work-hours

{
  "page_no" : 1,
  "page_size" : 10,
  "project_uuid" : "a8ac165097ff4e42bcfb234dd27d30a6",
  "staff_id" : "1111"
}
```

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Example Responses

Status code: 200


```
{
  "result" : {
    "total" : 1,
    "dataList" : [ {
      "work_date" : "1747065600000",
      "created_on" : "1747065600000",
      "subject" : "TEST",
      "work_hours" : 22,
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "id" : 9079052,
      "assigned_to" : {
        "first_name" : "xxxxxx",
        "image_id" : "xxxxxx",
        "assigned_nick_name" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : "1111"
      }
    } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying the project member workload list.

Error Codes

See **Error Codes**.

4.31 Scrum Project Sprints

4.31.1 Creating a Sprint (V2)

Function

This API is used to create a sprint.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v2/version/create-version

Request Parameters

Table 4-1424 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-1425 Request body parameters

Parameter	Mandatory	Type	Description
start_date	No	Integer	**Definition**: Start date of the created sprint (in timestamp format, for example, **1754150400000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
due_date	No	Integer	**Definition**: End date of the created sprint (in timestamp format, for example, **1754150400000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_id	No	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** N/A **Range** N/A **Default Value** N/A
name	No	String	**Definition**: Name of the sprint to be created. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-1426 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Result of creating a sprint.
status	String	**Definition**: Response status of the current sprint. **Value range**: N/A

Table 4-1427 result

Parameter	Type	Description
version	**version** object	**Definition**: Version information of the created sprint.

Table 4-1428 version

Parameter	Type	Description
id	Integer	**Definition** Unique ID of the created sprint. **Range** N/A
project_num_id	Integer	**Definition** Unique ID of the project associated with the current sprint. **Range** N/A
project_id	String	**Definition** Unique ID of the project to which the current sprint belongs. **Range** N/A
name	String	**Definition**: Name of the created sprint. **Value range**: N/A

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Parameter	Type	Description
due_date	String	**Definition**: End date of the created sprint. **Value range**: N/A
effective_date	String	**Definition**: Effective date of the created sprint. **Value range**: N/A
status	String	**Definition**: Status of the current sprint. **Value range**: **0**: not started
sharing	String	**Definition**: Sharing status of the current sprint. **Value range**: **none**: not shared
start_date	String	**Definition**: Start date of the current sprint. **Value range**: N/A
done_ratio	Integer	**Definition**: Progress of the current sprint. **Value range**: N/A

Example Requests

```
PUT https://{endpoint}/v2/version/create-version?_=1753067241950

{
  "start_date" : 1752854400000,
  "due_date" : 1754064000000,
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "name" : "test"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "version" : {
      "id" : 26664721,
```

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```
    "project_num_id" : 35138974,
    "project_id" : "5192de5eb435430c8cd41c6ae6028848",
    "name" : "Creating a sprint",
    "due_date" : "2025-08-02",
    "effective_date" : "2025-08-02",
    "status" : "0",
    "sharing" : "none",
    "start_date" : "2025-07-19",
    "done_ratio" : 0
   }
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.31.2 Deleting a Sprint (V2)

Function

This API is used to delete a sprint.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/version/delete

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Request Parameters

Table 4-1429 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-1430 Request body parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
version_id	No	String	**Definition** Unique ID of the deleted sprint. The value is obtained by calling the **Querying the Sprint** API. The ID in the version field in the response body is the ID of the current sprint. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1431 Response body parameters

Parameter	Type	Description
result	String	**Definition**: Result of the request for deleting a sprint. **Value range**: N/A
status	String	**Definition**: Status of the request for deleting a sprint. **Value range**: **success**: The sprint is successfully deleted. **error**: The sprint deletion failed.

Example Requests

```
POST https://{endpoint}/v2/version/delete

{
  "project_id" : "ac73924a87d0455ca9b16b0ed15fe367",
  "version_id" : "26658661"
}
```

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Example Responses

Status code: 200

```
{
  "result" : "",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.31.3 Querying the Work Items That Cannot Be Transitioned to a Specified Status When a Sprint Is Closed

Function

This API is used to query the work items that cannot be transitioned to a specific status when a sprint is closed.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v2/version/query-immovable-issues

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Table 4-1432 Query Parameters

Parameter	Mandatory	Type	Description
version_id	No	String	**Definition** Version ID of the end sprint. The value is obtained by calling the **Querying the Sprint** API. The ID in the version field in the response body is the ID of the current sprint. **Constraints** N/A **Range** N/A **Default Value** N/A
project_id	No	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1433 Response body parameters

Parameter	Type	Description
number	Integer	**Definition**: ID of the deleted sprint. **Value range**: N/A
id	String	**Definition** Unique ID of the deleted sprint. **Range** N/A
status_id	Integer	**Definition** Status ID of the deleted sprint. **Range** **0**: not started **1**: ongoing **2**: closed
status_name	String	**Definition**: Status name of the deleted sprint. **Value range**: **0**: not started **1**: ongoing **2**: closed

Example Requests

```
GET https://{endpoint}/v2/version/query-immovable-issues?
project_id=ac73924a87d0455ca9b16b0ed15fe367&version_id=26658650
```

Example Responses

Status code: 200

```
{
  "number" : 0,
  "id" : "c42312e7f4b74810970a8201b0f96751",
  "status_id" : 5,
  "status_name" : "Closed"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

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Error Codes

See **Error Codes**.

4.31.4 Updating a Sprint (V2)

Function

This API is used to update a sprint.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v2/version/update

Request Parameters

Table 4-1434 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

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Table 4-1435 Request body parameters

Parameter	Mandatory	Type	Description
due_date	No	Integer	**Definition**: End date of the current sprint (in the timestamp format, for example, **1757952000000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
id	No	Integer	**Definition** Digital ID of the current sprint. **Constraints** N/A **Range** N/A **Default Value** N/A
name	No	String	**Definition**: Sprint name after modification. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
start_date	No	Integer	**Definition**: Start date of the current sprint (in the timestamp format, for example, **1757952000000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
update_workitem_date	No	Boolean	**Definition** Whether to change the estimated start and end time of all work items in the sprint. **Constraints** N/A **Range** **true**: Synchronization is required. **false**: Synchronization is not required. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1436 Response body parameters

Parameter	Type	Description
result	String	**Definition**: Returned result of changing the sprint name. **Value range**: N/A

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Parameter	Type	Description
status	String	**Definition**: Returned status of changing a sprint. **Value range**: **success**: The modification is successful. **error**: The modification fails.

Example Requests

```
POST https://{endpoint}/v2/version/update

{
  "due_date" : 1754064000000,
  "id" : 26664721,
  "name" : "test",
  "start_date" : 1752854400000,
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "update_workitem_date" : false
}
```

Example Responses

Status code: 200

```
{
  "result" : "",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.31.5 Querying the Sprint List

Function

This API is used to query the sprint list.

Calling Method

For details, see **Calling APIs**.

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Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v4/projects/{project_id}/versions

Table 4-1437 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1438 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of the sprint query.
status	String	**Definition**: Response status of the current sprint list. **Value range**: **success**: The response is successful. **error**: The response failed.

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Table 4-1439 result

Parameter	Type	Description
versions	Array of **versions** objects	**Definition**: Returned sprints.
total_count	Integer	**Definition**: Total number of sprints. **Value range**: N/A

Table 4-1440 versions

Parameter	Type	Description
id	Integer	**Definition**: Unique ID of a sprint. **Value range**: N/A
name	String	**Definition**: Sprint name. **Value range**: N/A
status	String	**Definition**: Current status of a sprint. **Value range**: **0**: not started **1**: ongoing **2**: closed
project_id	String	**Definition**: Unique ID of the project to which a sprint belongs. **Value range**: N/A
due_date	String	**Definition**: End date of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A

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Parameter	Type	Description
effective_date	String	**Definition**: Date when a sprint takes effect (in timestamp format, for example, **1756656000000**). **Value range**: N/A
created_on	String	**Definition**: Time when a sprint is created (in timestamp format, for example, **1756656000000**). **Value range**: N/A
updated_on	String	**Definition**: Last update time of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A
start_date	String	**Definition**: Start date of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A
is_current	String	**Definition**: Whether the sprint is the current version. **Value range**: N/A
program_version_id	String	**Definition** ID of the associated program version. **Range** N/A
done_ratio	Integer	**Definition**: Sprint progress, in percentage. **Value range**: N/A

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Parameter	Type	Description
is_deleted	Integer	**Definition**: Whether the sprint has been deleted. **Value range**: **0** (not deleted) **1** (deleted)
status_option	Array of **status_option** objects	**Definition**: Sprint status option list. **Value range**: N/A
project	**project** object	**Definition**: Project to which a sprint belongs. **Value range**: N/A
issue_info	**issue_info** object	**Definition**: Statistics about sprint-related issues. **Value range**: N/A

Table 4-1441 status_option

Parameter	Type	Description
id	String	**Definition** Sprint status ID. **Range** N/A
name	String	**Definition**: Sprint status name. **Value range**: N/A

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Table 4-1442 project

Parameter	Type	Description
name	String	**Definition**: Name of the project to which a sprint belongs. **Value range**: N/A
id	Integer	**Definition** ID of the project to which a sprint belongs. **Range** N/A

Table 4-1443 issue_info

Parameter	Type	Description
total	Integer	**Definition**: Total number of issues. **Value range**: N/A
type_info	Array of strings	**Definition**: Statistics on different types of issues. **Value range**: N/A
closed	String	**Definition**: Number of closed issues. **Value range**: N/A
un_closed	String	**Definition**: Number of unclosed issues. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v4/projects/{5192de5eb435430c8cd41c6ae6028848}/versions
```

Example Responses

Status code: 200

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```
{
  "result" : {
    "versions" : [ {
      "id" : 26664788,
      "name" : "111",
      "status" : "0",
      "project_id" : "35138974",
      "due_date" : "1756656000000",
      "effective_date" : "1756656000000",
      "created_on" : "1754387539000",
      "updated_on" : "1754387539000",
      "start_date" : "1755446400000",
      "is_current" : "3",
      "program_version_id" : "-1",
      "done_ratio" : 0,
      "is_deleted" : 0,
      "status_option" : [ {
        "id" : "0",
        "name" : "To Do"
      }, {
        "id" : "1",
        "name" : "Doing"
      }, {
        "id" : "2",
        "name" : "Done"
      } ],
      "project" : {
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "issue_info" : {
        "total" : 0,
        "type_info" : [ ],
        "closed" : "0",
        "un_closed" : "0"
      }
    }, {
      "id" : 26664721,
      "name" : "Changing the sprint name",
      "status" : "1",
      "sharing" : "none",
      "createFromProgramVersion" : false,
      "project_id" : "35138974",
      "due_date" : "1754064000000",
      "effective_date" : "1754064000000",
      "created_on" : "1754375187000",
      "updated_on" : "1754380989000",
      "start_date" : "1752854400000",
      "is_current" : "1",
      "program_version_id" : "-1",
      "done_ratio" : 0,
      "is_deleted" : 0,
      "status_option" : [ {
        "id" : "0",
        "name" : "To Do"
      }, {
        "id" : "1",
        "name" : "Doing"
      }, {
        "id" : "2",
        "name" : "Done"
      } ],
      "project" : {
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "issue_info" : {
        "total" : 0,
        "type_info" : [ ],
```


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```
      "closed" : "0",
      "un_closed" : "0"
    }
  }, {
    "id" : 26658716,
    "name" : "Sprint 1",
    "status" : "2",
    "sharing" : "none",
    "createFromProgramVersion" : false,
    "project_id" : "35138974",
    "due_date" : "1750348800000",
    "effective_date" : "1750348800000",
    "created_on" : "1753084463000",
    "updated_on" : "1754379665000",
    "start_date" : "1749398400000",
    "is_current" : "2",
    "program_version_id" : "-1",
    "done_ratio" : 100,
    "is_deleted" : 0,
    "status_option" : [ {
      "id" : "0",
      "name" : "To Do"
    }, {
      "id" : "1",
      "name" : "Doing"
    }, {
      "id" : "2",
      "name" : "Done"
    } ],
    "project" : {
      "name" : "DevOps Full-Process Sample Project XXXX",
      "id" : 35138974
    },
    "issue_info" : {
      "total" : 11,
      "type_info" : [ {
        "total" : 5,
        "name" : "Task",
        "closed" : "5",
        "id" : "2",
        "un_closed" : "0"
      }, {
        "total" : 3,
        "name" : "Bug",
        "closed" : "3",
        "id" : "3",
        "un_closed" : "0"
      }, {
        "total" : 3,
        "name" : "Story",
        "closed" : "3",
        "id" : "7",
        "un_closed" : "0"
      } ],
      "closed" : "11",
      "un_closed" : "0"
    }
  } ],
  "total_count" : 3
},
"status" : "success"
}
```


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Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.32 IPD Project Plan Management

4.32.1 Creating a Plan

Function

Create a plan (milestone, release, or sprint) under a project. Sub-sprints can be created.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:create	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

POST /v1/planservice/projects/{project_id}/plans

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Table 4-1444 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-1445 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** A string of 10 to 32,768 characters. **Default Value** N/A

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Table 4-1446 Request body parameters

Parameter	Mandatory	Type	Description
title	Yes	String	**Definition** Plan title. **Constraints** N/A **Range** 1 to 256 characters. **Default Value** N/A
category	Yes	String	**Definition** Plan type. The value is of the enumerated type. **Constraints** N/A **Range** • **PI**: release • **Iteration**: sprint • **PlanMilestone**: milestone **Default Value** N/A
description	No	String	**Definition** Plan description. **Constraints** N/A **Range** 0 to 1,000 characters. **Default Value** N/A
plan_start_date	Yes	String	**Definition** Planned start time, in the format of yyyy-MM-dd. Example: **2024-01-01**. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_end_date	Yes	String	**Definition** Planned completion time, in the format of yyyy-MM-dd. Example: **2024-01-01**. **Constraints** N/A **Range** N/A **Default Value** N/A
parent_id	No	String	**Definition** Parent plan ID, which is mandatory when **category** is set to **Iteration**. It specifies the release plan to which the sprint belongs. **Constraints** This parameter is mandatory when **category** is set to **Iteration**. **Range** The value is a numeric string of 18 to 19 characters. **Default Value** N/A
workload	No	String	**Definition** Estimated workload, which is used to identify the required workforce investment for the plan. The unit is person/day. **Constraints** N/A **Range** 0 to 11 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
owner	No	String	**Definition** Owner ID, which identifies the owner of a plan. **Constraints** N/A **Range** The value can contain 32 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1447 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The operation succeeded. • **error**: The operation failed.
message	String	**Definition** Prompt information. **Range** N/A
result	**PlanResponseResult** object	**Definition** Plan details, including complete information about the release/sprint.

Table 4-1448 PlanResponseResult

Parameter	Type	Description
id	String	**Definition** ID of a release, sprint, or milestone. **Range** N/A

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Parameter	Type	Description
title	String	**Definition** Title **Range** N/A
category	String	**Definition** Type. The value is of the enumerated type. **Range** • **PI**: release • **Iteration**: sprint • **PlanMilestone**: milestone
description	String	**Definition** Description. **Range** N/A
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.
status	String	**Definition** Release/Sprint status. The value is of the enumerated type. **Range** • **planned**: not started • **going**: ongoing • **ended**
children	Array of **PlanResponseResult** objects	**Definition** Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A

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Parameter	Type	Description
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	Long	**Definition** Plan start time, which is a Unix timestamp (unit: millisecond). **Range** N/A
plan_end_date	Long	**Definition** Plan completion time, which is a Unix timestamp (unit: millisecond). **Range** N/A
created_date	Long	**Definition** Creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
parent_id	String	**Definition** Parent plan ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** The value is a numeric string of 18 to 19 characters.
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • "" (not baselined)

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Parameter	Type	Description
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Status code: 400

Table 4-1449 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error message. **Range** N/A

Example Requests

- Creating a release

```
POST https://{endpoint}/v1/planservice/projects/2a0d6799fe0d48b29ab8710be556d461/plans

{
  "title" : "plan_0731_1",
  "category" : "PI",
  "plan_end_date" : "2025-01-20",
  "plan_start_date" : "2025-02-01"
}
```

- Creating a sprint

```
POST https://{endpoint}/v1/planservice/projects/2a0d6799fe0d48b29ab8710be556d461/plans

{
  "title" : "iteration_0731_1",
  "category" : "Iteration",
```

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```
  "plan_end_date" : "2025-01-20",
  "plan_start_date" : "2025-02-01",
  "parent_id" : "1088833093706829825"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "123e4567e89b12d3a456426614174000",
    "title" : "Project Milestone 1",
    "category" : "PlanMilestone",
    "description" : "This is an important milestone of the project.",
    "state" : "In use",
    "status" : "planned",
    "children" : [ {
      "id" : "123e4567e89b12d3a456426614174000",
      "title" : "Sprint 1",
      "category" : "Iteration",
      "description" : "Sprint 1 description.",
      "state" : "In use",
      "status" : "planned",
      "children" : [ ],
      "created_by" : "user1",
      "modified_by" : "user1",
      "plan_start_date" : 1633072800000,
      "plan_end_date" : 1635751200000,
      "created_date" : 1633072800000,
      "parent_id" : "123e4567e89b12d3a456426614174000",
      "baseline" : "unbaseline",
      "workload" : "10 person-days",
      "owner" : "user2"
    } ],
    "created_by" : "admin",
    "modified_by" : "admin",
    "plan_start_date" : 1630466400000,
    "plan_end_date" : 1633072800000,
    "created_date" : 1630466400000,
    "parent_id" : null,
    "baseline" : "unbaseline",
    "workload" : "20 person-days",
    "owner" : "user1"
  }
}
```

Status code: 400

```
{
  "error_msg" : "Invalid project_id or other parameters",
  "error_code" : "AS.0001"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

- Creating a release

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

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```
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreatePlansSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreatePlansRequest request = new CreatePlansRequest();
        request.withProjectId("{project_id}");
        PlanCreateParam body = new PlanCreateParam();
        body.withPlanEndDate("2025-01-20");
        body.withPlanStartDate("2025-02-01");
        body.withCategory("PI");
        body.withTitle("plan_0731_1");
        request.withBody(body);
        try {
            CreatePlansResponse response = client.createPlans(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

- Creating a sprint

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreatePlansSolution {

    public static void main(String[] args) {
```

```
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreatePlansRequest request = new CreatePlansRequest();
        request.withProjectId("{project_id}");
        PlanCreateParam body = new PlanCreateParam();
        body.withParentId("1088833093706829825");
        body.withPlanEndDate("2025-01-20");
        body.withPlanStartDate("2025-02-01");
        body.withCategory("Iteration");
        body.withTitle("iteration_0731_1");
        request.withBody(body);
        try {
            CreatePlansResponse response = client.createPlans(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

- Creating a release

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
```

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```
        .build()

    try:
        request = CreatePlansRequest()
        request.project_id = "{project_id}"
        request.body = PlanCreateParam(
            plan_end_date="2025-01-20",
            plan_start_date="2025-02-01",
            category="PI",
            title="plan_0731_1"
        )
        response = client.create_plans(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- Creating a sprint

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePlansRequest()
        request.project_id = "{project_id}"
        request.body = PlanCreateParam(
            parent_id="1088833093706829825",
            plan_end_date="2025-01-20",
            plan_start_date="2025-02-01",
            category="Iteration",
            title="iteration_0731_1"
        )
        response = client.create_plans(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

- Creating a release

```
package main

import (
```

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```
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreatePlansRequest{}
    request.ProjectId = "{project_id}"
    request.Body = &model.PlanCreateParam{
        PlanEndDate: "2025-01-20",
        PlanStartDate: "2025-02-01",
        Category: "PI",
        Title: "plan_0731_1",
    }
    response, err := client.CreatePlans(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

- Creating a sprint

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

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```
environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreatePlansRequest{}
    request.ProjectId = "{project_id}"
    parentIdPlanCreateParam:= "1088833093706829825"
    request.Body = &model.PlanCreateParam{
        ParentId: &parentIdPlanCreateParam,
        PlanEndDate: "2025-01-20",
        PlanStartDate: "2025-02-01",
        Category: "Iteration",
        Title: "iteration_0731_1",
    }
    response, err := client.CreatePlans(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Plan created successfully.
400	The error message is returned.

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Error Codes

See **Error Codes**.

4.32.2 Deleting Plans in Batches

Function

This API is used to batch delete release plans or sprints. You can pass a list of release plan or sprint IDs to batch delete the specified plans or sprints.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:delete	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

DELETE /v1/planservice/projects/{project_id}/plans/batch-delete

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Table 4-1450 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-1451 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** A string of 10 to 32,768 characters. **Default Value** N/A

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Table 4-1452 Request body parameters

Parameter	Mandatory	Type	Description
ids	Yes	Array of strings	**Definition** List of release plan/sprint IDs to be deleted in batches. You can obtain the release/sprint ID using the API for **querying the release/sprint list**. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1453 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The batch operation is successful. • **error**: The batch operation fails.
message	String	**Definition** Returned message. **Range** N/A
result	**BatchResultVO** object	**Definition** Batch operation result data.

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Table 4-1454 BatchResultVO

Parameter	Type	Description
success_num	Number	**Definition** The number of succeeded items in the batch operation task. **Range** N/A
fail_num	Number	**Definition** The number of failed items in the batch operation task. **Range** N/A
success	Array of **BatchOperateInfo** objects	**Definition** List of plans that are successfully operated in batches.
failed	Array of **BatchOperateInfo** objects	**Definition** List of plans that fail to be operated in batches.

Table 4-1455 BatchOperateInfo

Parameter	Type	Description
id	String	**Definition** Release/Sprint plan ID. **Range** The value is a numeric string of 18 to 19 characters.
modified_by	String	**Definition** ID of the last updater. **Range** N/A

Status code: 400

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Table 4-1456 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error message. **Range** N/A

Example Requests

Deleting plans in batches

```
DELETE https://{endpoint}/v1/planservice/projects/9548acc581ba498d9895ecdb7d2db5ea/plans/batch-delete

{
  "ids" : [ "1164155086611324928", "1164155134381436929" ]
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "success_num" : 2,
    "fail_num" : 0,
    "success" : [ {
      "id" : "1164155086611324928",
      "modified_by" : "a360371833bf4c558f796fd707b44daf"
    }, {
      "id" : "1164155134381436929",
      "modified_by" : "a360371833bf4c558f796fd707b44daf"
    } ],
    "failed" : [ ]
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Deleting plans in batches

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
```

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```
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchDeletePlansSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeletePlansRequest request = new BatchDeletePlansRequest();
        request.withProjectId("{project_id}");
        BatchOperateReqVO body = new BatchOperateReqVO();
        List<String> listbodyIds = new ArrayList<>();
        listbodyIds.add("1164155086611324928");
        listbodyIds.add("1164155134381436929");
        body.withIds(listbodyIds);
        request.withBody(body);
        try {
            BatchDeletePlansResponse response = client.batchDeletePlans(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Deleting plans in batches

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeletePlansRequest()
        request.project_id = "{project_id}"
        listIdsbody = [
            "1164155086611324928",
            "1164155134381436929"
        ]
        request.body = BatchOperateReqVO(
            ids=listIdsbody
        )
        response = client.batch_delete_plans(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Deleting plans in batches

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()
```

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```
    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchDeletePlansRequest{}
    request.ProjectId = "{project_id}"
    var listIdsbody = []string{
        "1164155086611324928",
        "1164155134381436929",
    }
    request.Body = &model.BatchOperateReqVo{
        Ids: listIdsbody,
    }
    response, err := client.BatchDeletePlans(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response to a successful request for batch deletion.
400	Error message for batch deletion failure.

Error Codes

See **Error Codes**.

4.32.3 Querying the Release/Sprint Plan List

Function

This API is used to query the release/sprint plan list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/planservice/projects/{project_id}/plans/query

Table 4-1457 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Table 4-1458 Query Parameters

Parameter	Mandatory	Type	Description
key_word	No	String	**Definition**: Release/Sprint name. **Constraints**: N/A **Options**: N/A **Default value**: N/A
updated_time_interval	No	String	**Definition** Release/Sprint update time, which is a Unix timestamp (unit: millisecond). Examples: **1576114296000** and **1576114396000** **Constraints** The start time and end time are 13-digit timestamp strings separated by commas (,). **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-1459 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** A string of 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1460 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The plan list is queried successfully. • **error**: Failed to query the plan list.
message	String	**Definition** Prompt information. **Range** N/A
result	Array of **PlanResponseResult** objects	**Definition** Plan list, including complete information about the release and its child sprints.

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Parameter	Type	Description
page	page object	**Definition** Pagination information of the plan list.

Table 4-1461 PlanResponseResult

Parameter	Type	Description
id	String	**Definition** ID of a release, sprint, or milestone. **Range** N/A
title	String	**Definition** Title **Range** N/A
category	String	**Definition** Type. The value is of the enumerated type. **Range** • **PI**: release • **Iteration**: sprint • **PlanMilestone**: milestone
description	String	**Definition** Description. **Range** N/A
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.

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Parameter	Type	Description
status	String	**Definition** Release/Sprint status. The value is of the enumerated type. **Range** • **planned**: not started • **going**: ongoing • **ended**
children	Array of **PlanResponseResult** objects	**Definition** Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	Long	**Definition** Plan start time, which is a Unix timestamp (unit: millisecond). **Range** N/A
plan_end_date	Long	**Definition** Plan completion time, which is a Unix timestamp (unit: millisecond). **Range** N/A
created_date	Long	**Definition** Creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A

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Parameter	Type	Description
parent_id	String	**Definition** Parent plan ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** The value is a numeric string of 18 to 19 characters.
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Table 4-1462 page

Parameter	Type	Description
page	Integer	**Definition**: Page number. **Options**: N/A

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Parameter	Type	Description
size	Integer	**Definition**: Number of pages. **Options**: N/A
count	Integer	**Definition**: Number of records displayed on the current page. **Options**: N/A

Status code: 400

Table 4-1463 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error message. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/planservice/projects/{project_id}/plans/query?
key_word=gzy&updated_time_interval=1706845235000,1706845835000
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "956200745322848257",
    "title" : "IR-01",
    "category" : "PI",
    "description" : "Description",
    "state" : "In use",
    "status" : "ended",
    "children" : null,
    "created_by" : "a360371833bf4c558f796fd707b44daf",
```

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```
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "plan_start_date" : 1706845715000,
    "plan_end_date" : 1706845715000,
    "created_date" : 1706845715000,
    "parent_id" : "956239067176935424",
    "baseline" : "baselined",
    "workload" : "workload",
    "owner" : "a360371833bf4c558f796fd707b44daf"
  } ],
  "page" : {
    "page" : 1,
    "size" : 10,
    "count" : 1
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListPlanSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListPlanRequest request = new ListPlanRequest();
        request.withProjectId("{project_id}");
        try {
            ListPlanResponse response = client.listPlan(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
```

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```
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPlanRequest()
        request.project_id = "{project_id}"
        response = client.list_plan(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
```

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```
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListPlanRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListPlan(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Release/Sprint plan list queried successfully.
400	The error message is returned.

Error Codes

See **Error Codes**.

4.32.4 Querying Release/Sprint Plan Details

Function

This API is used to query details about a specified release or iteration plan, including the sub-sprint list.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/planservice/projects/{project_id}/plans/{plan_id}

Table 4-1464 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the API for **querying the release/sprint list**. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** A numeric string of 18 to 19 digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-1465 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** A string of 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1466 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The operation succeeded. • **error**: The operation failed.
message	String	**Definition** Prompt information. **Range** N/A
result	**PlanResponseResult** object	**Definition** Plan details, including complete information about the release/sprint.

Table 4-1467 PlanResponseResult

Parameter	Type	Description
id	String	**Definition** ID of a release, sprint, or milestone. **Range** N/A
title	String	**Definition** Title **Range** N/A
category	String	**Definition** Type. The value is of the enumerated type. **Range** • **PI**: release • **Iteration**: sprint • **PlanMilestone**: milestone
description	String	**Definition** Description. **Range** N/A

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Parameter	Type	Description
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.
status	String	**Definition** Release/Sprint status. The value is of the enumerated type. **Range** • **planned**: not started • **going**: ongoing • **ended**
children	Array of **PlanResponseResult** objects	**Definition** Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	Long	**Definition** Plan start time, which is a Unix timestamp (unit: millisecond). **Range** N/A
plan_end_date	Long	**Definition** Plan completion time, which is a Unix timestamp (unit: millisecond). **Range** N/A

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Parameter	Type	Description
created_date	Long	**Definition** Creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
parent_id	String	**Definition** Parent plan ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** The value is a numeric string of 18 to 19 characters.
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Status code: 400

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Table 4-1468 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error message. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/planservice/projects/22f601108007420da5a90b4a30c09f83/plans/1113849585474641920
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "Success",
  "result" : {
    "id" : "123e4567e89b12d3a456426614174000",
    "title" : "Project Milestone 1",
    "category" : "PlanMilestone",
    "description" : "This is an important milestone of the project.",
    "state" : "In use",
    "status" : "planned",
    "children" : [ {
      "id" : "123e4567e89b12d3a456426614174000",
      "title" : "Sprint 1",
      "category" : "Iteration",
      "description" : "Sprint 1 description.",
      "state" : "In use",
      "status" : "planned",
      "children" : [ ],
      "created_by" : "user1",
      "modified_by" : "user1",
      "plan_start_date" : 1633072800000,
      "plan_end_date" : 1635751200000,
      "created_date" : 1633072800000,
      "parent_id" : "123e4567e89b12d3a456426614174000",
      "baseline" : "unbaseline",
      "workload" : "10 person-days",
      "owner" : "user2"
    } ],
    "created_by" : "admin",
    "modified_by" : "admin",
    "plan_start_date" : 1630466400000,
    "plan_end_date" : 1633072800000,
    "created_date" : 1630466400000,
    "parent_id" : null,
    "baseline" : "unbaseline",
    "workload" : "20 person-days",
    "owner" : "user1"
```

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```
  }
}
```

Status code: 400

```
{
  "error_msg" : "Invalid project_id or other parameters",
  "error_code" : "AS.0001"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListPlanDetailSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListPlanDetailRequest request = new ListPlanDetailRequest();
        request.withPlanId("{plan_id}");
        request.withProjectId("{project_id}");
        try {
            ListPlanDetailResponse response = client.listPlanDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPlanDetailRequest()
        request.plan_id = "{plan_id}"
        request.project_id = "{project_id}"
        response = client.list_plan_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }
```

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```
    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListPlanDetailRequest{}
    request.PlanId = "{plan_id}"
    request.ProjectId = "{project_id}"
    response, err := client.ListPlanDetail(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Plan details queried successfully.
400	The error message is returned.

Error Codes

See **Error Codes**.

4.32.5 Updating a Plan

Function

This API is used to update specified plan information, including milestone, release, and sprint attributes.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions.

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For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/planservice/projects/{project_id}/plans/{plan_id}

Table 4-1469 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the API for **querying the release/sprint list**. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** A numeric string of 18 to 19 digits. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-1470 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** A string of 10 to 32,768 characters. **Default Value** N/A

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Table 4-1471 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	**Definition**: ID of a release, sprint, or milestone. **Value range**: N/A
title	No	String	**Definition**: Title. **Options**: N/A
category	No	String	**Definition**: Type. The value is of the enumerated type. **Value range**: **PI**: release **Iteration**: sprint **PlanMilestone**: milestone
description	No	String	**Definition**: Description **Options**: N/A
status	No	String	**Definition**: Release/Sprint status. The value is of the enumerated type. **Value range**: **planned**: not started **going**: ongoing **ended**
children	No	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
modified_by	No	String	**Definition** ID of the last updater. **Range** N/A

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Parameter	Mandatory	Type	Description
plan_start_date	No	String	**Definition** Planned start time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
plan_end_date	No	String	**Definition** Planned completion time, in the format of "yyyy-MM-dd". Example: **2024-01-01**. **Range** N/A
created_date	No	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A
parent_id	No	String	**Definition** Parent work item ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Constraints** A numeric string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
baseline	No	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Constraints** N/A **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	No	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Constraints** N/A **Range** Max. 11 characters. **Default Value** N/A
owner	No	String	**Definition** Owner ID, which identifies the owner of a plan. **Constraints** N/A **Range** A string of 32 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1472 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The operation succeeded. • **error**: The operation failed.
message	String	**Definition** Prompt information. **Range** N/A
result	**PlanResponseResult** object	**Definition** Plan details, including complete information about the release/sprint.

Table 4-1473 PlanResponseResult

Parameter	Type	Description
id	String	**Definition** ID of a release, sprint, or milestone. **Range** N/A
title	String	**Definition** Title **Range** N/A
category	String	**Definition** Type. The value is of the enumerated type. **Range** • **PI**: release • **Iteration**: sprint • **PlanMilestone**: milestone
description	String	**Definition** Description. **Range** N/A

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Parameter	Type	Description
state	String	**Definition** Discard flag. The value is of the enumerated type. **Range** • **In use**: releases that can be operated normally. • **Discarded**: releases that have been soft deleted. • **Deleted**: releases that have been permanently deleted.
status	String	**Definition** Release/Sprint status. The value is of the enumerated type. **Range** • **planned**: not started • **going**: ongoing • **ended**
children	Array of **PlanResponseResult** objects	**Definition** Sub-project sprint information.
created_by	String	**Definition** Creator ID. **Range** N/A
modified_by	String	**Definition** ID of the last updater. **Range** N/A
plan_start_date	Long	**Definition** Plan start time, which is a Unix timestamp (unit: millisecond). **Range** N/A
plan_end_date	Long	**Definition** Plan completion time, which is a Unix timestamp (unit: millisecond). **Range** N/A

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Parameter	Type	Description
created_date	Long	**Definition** Creation time, which is a Unix timestamp (unit: millisecond). **Range** N/A
parent_id	String	**Definition** Parent plan ID. When the plan type is iteration, this parameter specifies the release plan to which the work item belongs. **Range** The value is a numeric string of 18 to 19 characters.
baseline	String	**Definition** Baseline status. The value is of the enumerated type and indicates whether the plan has been included in baseline management. **Range** • **baselined** • **unbaseline** • **""** (not baselined)
workload	String	**Definition** Estimated workload, which is used to identify the required workforce or time investment for the plan. The unit is person/day. **Range** Max. 11 characters.
owner	String	**Definition** Owner ID, which identifies the owner of a plan. **Range** A string of 32 characters.

Status code: 400

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Table 4-1474 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error message. **Range** N/A

Example Requests

Request parameters for updating a plan

```
PUT https://{endpoint}/v1/planservice/projects/1234567890abcdef1234567890abcdef/plans/
abcdef1234567890abcdef1234567890

{
  "title" : "Updated Plan Title",
  "category" : "PI",
  "description" : "This is the updated plan description.",
  "status" : "going",
  "plan_start_date" : 1701456000000,
  "plan_end_date" : 1702060800000,
  "created_date" : 1701456000000,
  "parent_id" : "0987654321fedcba0987654321fedcba",
  "baseline" : "unbaseline",
  "workload" : "20h",
  "owner" : "33333333333333333333333333333333"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "Plan updated.",
  "result" : {
    "id" : "123456789012345678",
    "title" : "Updated Plan Title",
    "category" : "PI",
    "description" : "This is the updated plan description.",
    "state" : "In use",
    "status" : "going",
    "children" : [ ],
    "created_by" : "11111111111111111111111111111111",
    "modified_by" : "22222222222222222222222222222222",
    "plan_start_date" : 1701456000000,
    "plan_end_date" : 1702060800000,
    "created_date" : 1701456000000,
    "parent_id" : "0987654321fedcba0987654321fedcba",
    "baseline" : "unbaseline",
    "workload" : "20h",
    "owner" : "33333333333333333333333333333333"
```

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```
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02175011",
  "error_msg" : "Invalid parent_id."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Request parameters for updating a plan

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdatePlanInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdatePlanInfoRequest request = new UpdatePlanInfoRequest();
        request.withPlanId("{plan_id}");
        request.withProjectId("{project_id}");
        PlanVO body = new PlanVO();
        body.withOwner("33333333333333333333333333333333");
        body.withWorkload("20h");
        body.withBaseline("unbaseline");
        body.withParentId("0987654321fedcba0987654321fedcba");
        body.withCreatedDate(1701456000000L);
        body.withPlanEndDate("1702060800000");
        body.withPlanStartDate("1701456000000");
        body.withStatus("going");
        body.withDescription("This is the updated plan description.");
        body.withCategory("PI");
        body.withTitle("Updated Plan Title");
        request.withBody(body);
        try {
            UpdatePlanInfoResponse response = client.updatePlanInfo(request);
            System.out.println(response.toString());
```

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```
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Request parameters for updating a plan

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdatePlanInfoRequest()
        request.plan_id = "{plan_id}"
        request.project_id = "{project_id}"
        request.body = PlanVO(
            owner="33333333333333333333333333333333",
            workload="20h",
            baseline="unbaseline",
            parent_id="0987654321fedcba0987654321fedcba",
            created_date=1701456000000,
            plan_end_date="1702060800000",
            plan_start_date="1701456000000",
            status="going",
            description="This is the updated plan description.",
            category="PI",
            title="Updated Plan Title"
        )
        response = client.update_plan_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

Request parameters for updating a plan

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdatePlanInfoRequest{}
    request.PlanId = "{plan_id}"
    request.ProjectId = "{project_id}"
    ownerPlanVo:= "33333333333333333333333333333333"
    workloadPlanVo:= "20h"
    baselinePlanVo:= "unbaseline"
    parentIdPlanVo:= "0987654321fedcba0987654321fedcba"
    createdDatePlanVo:= int64(1701456000000)
    planEndDatePlanVo:= "1702060800000"
    planStartDatePlanVo:= "1701456000000"
    statusPlanVo:= "going"
    descriptionPlanVo:= "This is the updated plan description."
    categoryPlanVo:= "PI"
    titlePlanVo:= "Updated Plan Title"
    request.Body = &model.PlanVo{
        Owner: &ownerPlanVo,
        Workload: &workloadPlanVo,
        Baseline: &baselinePlanVo,
        ParentId: &parentIdPlanVo,
        CreatedDate: &createdDatePlanVo,
        PlanEndDate: &planEndDatePlanVo,
        PlanStartDate: &planStartDatePlanVo,
        Status: &statusPlanVo,
```

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```
        Description: &descriptionPlanVo,
        Category: &categoryPlanVo,
        Title: &titlePlanVo,
    }
    response, err := client.UpdatePlanInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Plan updated successfully.
400	Error message.

Error Codes

See **Error Codes**.

4.32.6 Batch Baselining or Canceling Baseline of Plans

Function

This API is used to baseline or cancel the baseline of project plans in a batch.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:baseline	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/planservice/projects/{project_id}/plans/batch-baseline

Table 4-1475 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-1476 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** A string of 10 to 32,768 characters. **Default Value** N/A

Table 4-1477 Request body parameters

Parameter	Mandatory	Type	Description
ids	Yes	Array of strings	**Definition** List of release/sprint IDs. You can obtain the release/sprint ID using the API for **querying the release/sprint list**. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** N/A **Range** N/A **Default Value** N/A
attribute	Yes	**BaseLineVO** object	**Definition** Baseline attribute information, which specifies the baseline or cancels the baseline operation. **Constraints** N/A

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Table 4-1478 BaseLineVO

Parameter	Mandatory	Type	Description
baseline	No	String	**Definition** Operation type: Baselining/ Unbaselining. **Constraints** N/A **Range** • **baselined**: baselined release/sprint plan • **unbaseline**: cancel the baseline and restore the release/sprint plan. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1479 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The batch operation is successful. • **error**: The batch operation fails.
message	String	**Definition** Returned message. **Range** N/A
result	**BatchResultVO** object	**Definition** Batch operation result data.

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Table 4-1480 BatchResultVO

Parameter	Type	Description
success_num	Number	**Definition** The number of succeeded items in the batch operation task. **Range** N/A
fail_num	Number	**Definition** The number of failed items in the batch operation task. **Range** N/A
success	Array of **BatchOperateInfo** objects	**Definition** List of plans that are successfully operated in batches.
failed	Array of **BatchOperateInfo** objects	**Definition** List of plans that fail to be operated in batches.

Table 4-1481 BatchOperateInfo

Parameter	Type	Description
id	String	**Definition** Release/Sprint plan ID. **Range** The value is a numeric string of 18 to 19 characters.
modified_by	String	**Definition** ID of the last updater. **Range** N/A

Status code: 400

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Table 4-1482 Response body parameters

Parameter	Type	Description
error_msg	String	**Definition** Error message. **Range** N/A
error_code	String	**Definition** Error code. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v1/planservice/projects/b54914d464d1498a97d683ef198ec448/plans/batch-baseline

{
  "ids" : [ "6614174000", "6614174000" ],
  "attribute" : {
    "baseline" : "Baseline"
  }
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "success_num" : 3,
    "fail_num" : 1,
    "success" : [ {
      "id" : "123e4567e89b12d3a456426614174000",
      "modified_by" : "user1"
    }, {
      "id" : "123e4567e89b12d3a456426614174001",
      "modified_by" : "user2"
    }, {
      "id" : "123e4567e89b12d3a456426614174002",
      "modified_by" : "user3"
    } ],
    "failed" : [ {
      "id" : "123e4567e89b12d3a456426614174003",
      "modified_by" : "user4"
    } ]
  }
}
```

Status code: 400

```
{
  "error_msg" : "Invalid project_id or other parameters",
  "error_code" : "AS.0001"
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchUpdateBaselineSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchUpdateBaselineRequest request = new BatchUpdateBaselineRequest();
        request.withProjectId("{project_id}");
        OperateSprintReqVO body = new OperateSprintReqVO();
        BaseLineVO attributebody = new BaseLineVO();
        attributebody.withBaseline("Baseline");
        List<String> listbodyIds = new ArrayList<>();
        listbodyIds.add("6614174000");
        listbodyIds.add("6614174000");
        body.withAttribute(attributebody);
        body.withIds(listbodyIds);
        request.withBody(body);
        try {
            BatchUpdateBaselineResponse response = client.batchUpdateBaseline(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchUpdateBaselineRequest()
        request.project_id = "{project_id}"
        attributebody = BaseLineVO(
            baseline="Baseline"
        )
        listIdsbody = [
            "6614174000",
            "6614174000"
        ]
        request.body = OperateSprintReqVO(
            attribute=attributebody,
            ids=listIdsbody
        )
        response = client.batch_update_baseline(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

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```
    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchUpdateBaselineRequest{}
    request.ProjectId = "{project_id}"
    baselineAttribute:= "Baseline"
    attributebody := &model.BaseLineVo{
        Baseline: &baselineAttribute,
    }
    var listIdsbody = []string{
        "6614174000",
        "6614174000",
    }
    request.Body = &model.OperateSprintReqVo{
        Attribute: attributebody,
        Ids: listIdsbody,
    }
    response, err := client.BatchUpdateBaseline(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Batch baseline creation or cancellation succeeded.
400	Bad Request

Error Codes

See **Error Codes**.

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4.32.7 Updating the Release/Sprint Status

Function

This API is used to update the status of a release/sprint.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:plan:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v1/planservice/projects/{project_id}/plans/{plan_id}/status

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Table 4-1483 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for **querying the project list**. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A
plan_id	Yes	String	**Definition** Unique ID of a release or sprint. You can obtain the release/sprint ID using the API for **querying the release/sprint list**. The value of the **id** field in the response message body is the release/sprint ID. **Constraints** A numeric string of 18 to 19 digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-1484 Request body parameters

Parameter	Mandatory	Type	Description
operate	Yes	String	**Definition** Operation type. **Constraints** N/A **Range** • **start**: Start the release/sprint plan. • **complete**: Complete the release/sprint plan. • **reset**: Set the plan status to "Not started." • **restart**: Restart the release/sprint plan. • **move**: Move a work item to another sprint. **Default Value** N/A
move_to_sprint_id	No	String	**Definition** Sprint ID to which the work item is moved. If the value of the **operate** parameter is **complete**, move the unfinished work items to another sprint. **Constraints** This parameter is mandatory when the value of **operate** is **complete**. An empty string indicates that the work item is moved to the "To be planned" state. **Range** The value is a numeric string of 18 to 19 characters. **Default Value** N/A

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Response Parameters

Status code: 200

Table 4-1485 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status. **Range** • **success**: The operation succeeded. • **error**: The operation failed.
message	String	**Definition** Prompt information. **Range** N/A
result	**StatusChangeResult** object	**Definition** Status change result data, including information about work items that cannot be completed.

Table 4-1486 StatusChangeResult

Parameter	Type	Description
cannot_finish_ar	Array of **WorkItemVO** objects	**Definition** List of uncompleted AR work items. When a release/sprint is completed, the uncompleted AR work items will be listed here.

Table 4-1487 WorkItemVO

Parameter	Type	Description
id	String	**Definition** Unique ID of a work item. **Range** N/A

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Parameter	Type	Description
title	String	**Definition** Work item title. **Range** N/A
number	String	**Definition** Work item ID. **Range** N/A
category	String	**Definition** Work item type. **Range** N/A
status	**StatusVO** object	**Definition** Work item status information.
assignee	**UserVO** object	**Definition** Work item owner information.
baseline	String	**Definition** Work item baseline status. **Range** • **baselined** • **unbaseline** • "" (not baselined)
change_status	String	**Definition** Work item change status. **Range** • **cannot_finish**

Table 4-1488 StatusVO

Parameter	Type	Description
id	String	**Definition** Status ID. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Status name. **Range** N/A

Table 4-1489 UserVO

Parameter	Type	Description
id	String	**Definition** User ID, which is a 32-bit UUID. **Range** N/A
name	String	**Definition** Username. **Range** N/A

Status code: 400

Table 4-1490 Response body parameters

Parameter	Type	Description
error_msg	String	**Definition** Error message. **Range** N/A
error_code	String	**Definition** Error code. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v1/planservice/projects/526cefde62004de2b62b5e8dd2c2b3af/plans/
12345678901234567 8/status

{
  "operate" : "move",
  "move_to_sprint_id" : "12345678901234567890123456789012"
}
```

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Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "cannot_finish_ar" : [ {
      "id" : "956239067176935424",
      "title" : "AR work item 1",
      "number" : "AR1234567890",
      "category" : "AR",
      "status" : {
        "id" : "1",
        "name" : "Ongoing"
      },
      "assignee" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "User A"
      },
      "baseline" : "unbaseline",
      "change_status" : "cannot_finish"
    } ]
  }
}
```

Status code: 400

```
{
  "error_msg" : "Parameter error. For example, the value of **operate** is not within the valid range.",
  "error_code" : "PM.02175011"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ChangePlanStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ChangePlanStatusRequest request = new ChangePlanStatusRequest();
        request.withPlanId("{plan_id}");
        request.withProjectId("{project_id}");
        CompleteSprintVO body = new CompleteSprintVO();
        body.withMoveToSprintId("12345678901234567890123456789012");
        body.withOperate("move");
        request.withBody(body);
        try {
            ChangePlanStatusResponse response = client.changePlanStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ChangePlanStatusRequest()
        request.plan_id = "{plan_id}"
        request.project_id = "{project_id}"
        request.body = CompleteSprintVO(
            move_to_sprint_id="12345678901234567890123456789012",
            operate="move"
        )
        response = client.change_plan_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ChangePlanStatusRequest{}
    request.PlanId = "{plan_id}"
    request.ProjectId = "{project_id}"
    moveToSprintIdCompleteSprintVo:= "123456789012345678901234567890123456789012"
    request.Body = &model.CompleteSprintVo{
        MoveToSprintId: &moveToSprintIdCompleteSprintVo,
        Operate: "move",
    }
    response, err := client.ChangePlanStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Release/Sprint status updated successfully.
400	Bad Request

Error Codes

See **Error Codes**.

4.33 IPD Project Work Item Comment Management

4.33.1 Querying Work Item Comments

Function

This API is used to list comments of a work item, including user-created text comments, user reply comments, and system-generated operation comments (such as status changes, field transitions, etc.). It supports filtering by comment type, sorting by creation time, and paginated queries.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/comments

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Table 4-1491 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-1492 Query Parameters

Parameter	Mandatory	Type	Description
date_desc	No	Boolean	**Definition** Whether to sort by creation time in descending order, used to control the sorting of the query result list. **Constraints** N/A **Range** • **true**: Sorted by creation time in descending order, with the latest comment displayed first. • **false**: Sorted by creation time in ascending order, with the earliest comment displayed first. **Default Value** **true**
page_no	Yes	Integer	**Definition** Page index, indicating the page number to start the query from. Used together with **page_size** to implement paginated queries. **Constraints** N/A **Range** 1~10000 **Default Value** 1

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Parameter	Mandatory	Type	Description
page_size	Yes	Integer	**Definition** Page size, indicating the number of comments returned per page. Used together with **page_no** to implement paginated queries. **Constraints** N/A **Range** 1~200 **Default Value** 200
category	Yes	String	**Definition** Comment type filter criteria. Multiple values are supported, separated by commas (,). Can be used to filter comments by type. **Constraints** N/A **Range** • **comment**: Text comment created by a user. • **reply**: Comment replying to another user. • **operation**: Comment auto-generated by the system based on key operations, such as status transitions and field changes. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1493 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status, used to indicate whether the API call is successful. **Range** • **success**: The comment list is queried successfully. • **error**: Querying the comment list failed.
message	String	**Definition** Response message. The error message is returned when an API call fails.
result	**CommentResult** object	**Definition** Comment query result, including the total number of comments and the comment list.

Table 4-1494 CommentResult

Parameter	Type	Description
total	Integer	**Definition** Total number of work item comments that meet the filter criteria. **Range** 0–10000
comment_list	Array of **CommentEntity** objects	**Definition** Work item comment list, including the comment ID, content, creator, creation time, and other complete attributes.

Table 4-1495 CommentEntity

Parameter	Type	Description
id	String	**Definition** Comment ID, which uniquely identifies a comment. **Range** A numeric string of 18 to 19 characters.

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Parameter	Type	Description
category	String	**Definition** Comment type, which distinguishes between user-created comments, reply comments, and system-generated key operation comments. **Range** • **comment**: Text comment created by a user. • **reply**: Comment replying to another user. • **operation**: Comment auto-generated by the system based on key operations, such as status transitions and field changes.
type	String	**Definition** Comment metadata type, used by the frontend to distinguish the rendering format of comments. **Range** Fixed at **comment**.
top	Boolean	**Definition** Whether to display the comment in the pinned area. **Range** • **true**: Displayed in the pinned area. • **false**: Not displayed in the pinned area.
top_time	String	**Definition** Unix timestamp of the pin time, in milliseconds. When there are multiple pinned comments, the most recently pinned comment is displayed at the top. **Range** A numeric string of 10 to 19 characters.

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Parameter	Type	Description
description	String	**Definition** Comment content, described using HTML tags with support for rich text (including text, @mentions, images, and other elements). **Range** 1 to 10,000 characters.
issue_id	String	**Definition** ID of the work item to which the comment belongs. It can be obtained by calling the **Querying the Work Item List** API. The value of the **id** field in the response body is the work item ID. **Range** A numeric string of 18 to 19 characters.
top_flag	Boolean	**Definition** Whether the current comment is pinned. **Range** • **true**: Pinned. • **false**: Not pinned.
created_by	String	**Definition** Comment creator ID. **Range** 32 characters.
modified_by	String	**Definition** Last modifier ID of the comment. **Range** 32 characters.
created_date	String	**Definition** Unix timestamp of the comment creation time, in milliseconds. **Range** A numeric string of 10 to 19 characters.

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Parameter	Type	Description
modified_date	String	**Definition** Unix timestamp of the last modification time of the comment, in milliseconds. **Range** A numeric string of 10 to 19 characters.
creator_info	**UserVO** object	**Definition** Detailed information of the comment creator, including the user ID, username, nickname, tenant ID, role, and other attributes.
extend_attribute	String	**Definition** Extended attributes of the comment, expressed as a JSON string, mainly used to describe the operation information associated with system-generated comments (such as status transitions and field changes). Only system comments (**category**: **operation**) have this value. **Range** 0 to 10,000 characters.
extend_attribute_obj	**CommentExtendAttribute** object	**Definition** Extended attribute object of the comment, containing structured information such as the operator, operation action, and values before and after status transitions. Only system comments (**category**: **operation**) have this value.
extend_attribute_objs	Array of **CommentExtendAttribute** objects	**Definition** Array of extended attribute objects for comments, containing structured information for multiple extended operations. Only system comments (**category**: **operation**) have this value.

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Table 4-1496 CommentExtendAttribute

Parameter	Type	Description
operator	**UserVO** object	**Definition** Operator user information, including the user ID, username, tenant ID, role, and other attributes.
operator_id	String	**Definition** Operator ID. **Range** 32 characters.
action	String	**Definition** Chinese description of the action performed when the system generates a comment, such as saving the initial requirement or modifying the status. **Range** N/A
action_us	String	**Definition** English description of the action performed when the system generates a comment, with the same meaning as the **action** field, used for internationalization scenarios. **Range** N/A
object_type	String	**Definition** Object type corresponding to the system-generated comment, used to identify the dimension of the object affected by this operation, such as the status field or owner field. **Range** N/A
pre_status_code	String	**Definition** Status code of the work item before transition, used to identify the previous status of the work item before this operation. **Range** N/A

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Parameter	Type	Description
new_status_code	String	**Definition** Status code of the work item after transition, used to identify the latest status of the work item after this operation. **Range** N/A
pre_status	Object	**Definition** Field value of the work item before transition. The object type varies depending on the **field_type_id** value. • **10001**: StatusVO object. • **10007**, **10008**: String. • **10003**, **10004**: Date and time. • **10005**, **10006**: Number.
new_status	Object	**Definition** Field value of the work item after transition. The object type varies depending on the **field_type_id** value. • **10001**, **10002**: StatusVO object. • **10007**, **10008**: String. • **10003**, **10004**: Date and time. • **10005**, **10006**: Number. • **10009**, **10010**: UserVO object.
field_type	String	**Definition** Field type enumeration value, used together with **field_type_id** to identify the field type affected by this operation, such as **STATUS**. **Range** N/A
field_type_id	String	**Definition** ID corresponding to the field type, used together with **field_type**. For common values and corresponding field value types, see the **pre_status**/**new_status** field description. **Range** N/A

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Parameter	Type	Description
display_name	String	**Definition** Field display name, used to identify the name of the field affected by this operation in the UI, such as status and owner. **Range** N/A

Table 4-1497 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A

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Parameter	Type	Description
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Status code: 400

Table 4-1498 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Query the first page of comments for work item **1111014158531207168** under project **4f967f6f05554273b0476da123e73b41**, with 50 comments per page, including comments, replies, and system operations.

```
GET https://{endpoint}/v1/ipdprojectservice/projects/4f967f6f05554273b0476da123e73b41/issues/1111014158531207168/comments?
```

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```
date_desc=true&domain_id=10507109451105976 32&page_no=1&page_size=50&category=comment,reply,op
eration
```

Example Responses

Status code: 200


```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "total" : 4,
    "comment_list" : [ {
      "id" : "1111014460409032705",
      "category" : "Comment",
      "type" : "comment",
      "top" : true,
      "description" : "<p>This is a pinned comment.</p>",
      "issue_id" : "1111014158531207168",
      "top_time" : "1742816095000",
      "top_flag" : true,
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : "1742816089000",
      "creator_info" : {
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "user_num_id" : 4091,
        "user_name" : "devcloud_devcloud_xxx_01",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "domain_name" : "devcloud_devcloud_xxx_01",
        "nick_name" : "Test account.",
        "role_id" : null,
        "role_name" : null,
        "role_code" : null
      }
    }, {
      "id" : "1111014460409032705",
      "category" : "Comment",
      "type" : "comment",
      "top" : false,
      "description" : "<p>This is a pinned comment.</p>",
      "issue_id" : "1111014158531207168",
      "top_time" : "1742816095000",
      "top_flag" : true,
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : "1742816089000",
      "creator_info" : {
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "user_num_id" : 4091,
        "user_name" : "devcloud_devcloud_xxx_01",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "domain_name" : "devcloud_devcloud_xxx_01",
        "nick_name" : "Test account.",
        "role_id" : null,
        "role_name" : null,
        "role_code" : null
      }
    }, {
      "id" : "1111014393723793409",
      "category" : "Comment",
      "type" : "comment",
      "top" : false,
      "description" : "<p>This is a comment with @mention&amp;nbsp;<span class=\"ql-mention-link\" title=
\"landingzone_xwq\" mentionchar=\"@\"><span contenteditable=\"false\">@landingzone_xwq</span></
span></p>",
      "issue_id" : "1111014158531207168",
      "top_flag" : false,
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : "1742816073000",
      "creator_info" : {
```


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```
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : 4091,
      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : "devcloud_devcloud_xxx_01",
      "nick_name" : "Test account.",
      "role_id" : null,
      "role_name" : null,
      "role_code" : null
    }
  }, {
    "id" : "1111014282305118208",
    "category" : "Comment",
    "type" : "comment",
    "top" : false,
    "description" : "<p>This is a comment with an image.</p><p><img src=\"/api/ipdproject/openapi/v1/
projects/4f967f6f05554273b0476da123e73b41/imgs/a152cf8e8a374ba38a971c2ac701c005.png\" style=
\"vertical-align: baseline;\"></p>",
    "issue_id" : "1111014158531207168",
    "top_flag" : false,
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1742816046000",
    "creator_info" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : 4091,
      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : "devcloud_devcloud_xxx_01",
      "nick_name" : "Test account.",
      "role_id" : null,
      "role_name" : null,
      "role_code" : null
    }
  }, {
    "id" : "1111014159198101507",
    "category" : "Operation",
    "type" : "comment",
    "top" : false,
    "issue_id" : "1111014158531207168",
    "top_flag" : false,
    "extend_attribute" : "[{\"action\": \"Save initial requirement\", \"action_u_s\": \"Save Initial Requirement
\", \"object_type\": \"status\", \"operator_id\": \"a360371833bf4c558f796fd707b44daf\", \"new_status_code
\": \"Start\", \"pre_status_code\": \"_Start_\"}]",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_date" : "1742816017000",
    "creator_info" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : 4091,
      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : "devcloud_devcloud_xxx_01",
      "nick_name" : "Test account.",
      "role_id" : null,
      "role_name" : null,
      "role_code" : null
    },
    "extend_attribute_obj" : {
      "operator" : {
        "watcher" : null,
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "user_num_id" : 4091,
        "user_name" : "devcloud_devcloud_xxx_01",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "domain_name" : "devcloud_devcloud_xxx_01",
        "nick_name" : "Test account.",
        "role_id" : null,
        "role_name" : null,
        "image_id" : null,
        "region" : null,
```


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```
      "opinion" : null,
      "description" : null,
      "owner" : null,
      "ccbId" : null,
      "has_removed" : null
    },
    "operator_id" : "a360371833bf4c558f796fd707b44daf",
    "action" : "Save initial requirement.",
    "action_us" : "Save Initial Requirement",
    "object_type" : "status",
    "pre_status_code" : "_Start_",
    "new_status_code" : "Start",
    "pre_status" : null,
    "new_status" : {
      "id" : "1050710945727160334",
      "belonging" : "START",
      "name" : "Initial.",
      "code" : "Start",
      "definition_type" : "5",
      "belong_definition_type" : 3,
      "display_value" : "Initial.",
      "position" : 1,
      "displayable" : 1,
      "editable" : 1,
      "deletable" : 1,
      "mutable" : 1,
      "title_py" : "cs",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_date" : 1728467410000,
      "modified_date" : 1728467410000,
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "linkage_node_fields" : false
    },
    "field_type" : "STATUS",
    "field_type_id" : "10001",
    "display_name" : "Status."
  },
  "extend_attribute_objs" : [ {
    "operator" : {
      "watcher" : null,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : 4091,
      "user_name" : "devcloud_devcloud_xxx_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : "devcloud_devcloud_xxx_01",
      "nick_name" : "Test account.",
      "role_id" : null,
      "role_name" : null,
      "image_id" : null,
      "region" : null,
      "opinion" : null,
      "description" : null,
      "owner" : null,
      "ccbId" : null,
      "has_removed" : null
    },
    "operator_id" : "a360371833bf4c558f796fd707b44daf",
    "action" : "Save initial requirement.",
    "action_us" : "Save Initial Requirement",
    "object_type" : "status",
    "pre_status_code" : "_Start_",
    "new_status_code" : "Start",
    "pre_status" : null,
    "new_status" : {
      "id" : "1050710945727160334",
      "belonging" : "START",
      "space_id" : "1050710945110597632",
      "name" : "Initial.",
      "code" : "Start",
```


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```
        "definition_type" : "5",
        "belong_definition_type" : 3,
        "display_value" : "Initial.",
        "position" : 1,
        "displayable" : 1,
        "editable" : 1,
        "deletable" : 1,
        "mutable" : 1,
        "title_py" : "cs",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "created_date" : 1728467410000,
        "modified_date" : 1728467410000,
        "modified_by" : "a360371833bf4c558f796fd707b44daf",
        "linkage_node_fields" : false
       },
       "field_type" : "STATUS",
       "field_type_id" : "10001",
       "display_name" : "Status."
     } ]
   } ]
  }
}
```


Status code: 400


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIpdIssueCommentsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIpdIssueCommentsRequest request = new ListIpdIssueCommentsRequest();
```

```
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        try {
            ListIpdIssueCommentsResponse response = client.listIpdIssueComments(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIpdIssueCommentsRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        response = client.list_ipd_issue_comments(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)
```

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```
func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ListIpdIssueCommentsRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    response, err := client.ListIpdIssueComments(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response for a successful query.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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4.33.2 Creating a Work Item Comment

Function

This API is used to create a new comment or reply to a comment for a specified work item. Set **category** to **comment** when creating a new comment. Set **category** to **reply** and specify **parent_id** and **root_id** when replying to an existing comment. Mentioned users will be notified.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/comments

Table 4-1499 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

Request Parameters

Table 4-1500 Request body parameters

Parameter	Mandatory	Type	Description
category	No	String	**Definition** Comment type, which distinguishes between new comments and reply comments. System operation type comments cannot be created through this API. **Constraints** N/A **Range** • **comment**: New text comment. • **reply**: Reply to other comment. • **operation**: System operation (cannot be created through this API). **Default Value** N/A

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Parameter	Mandatory	Type	Description
issue_category	No	String	**Definition** Type of the work item to which the comment belongs, such as IR, SR, and AR. This field identifies the work item type of the comment and determines the business logic for comment display and notification. **Constraints** N/A **Range** IPD work item types, such as IR, SR, AR, RR, US, Task, and Bug. **Default Value** N/A
description	No	String	**Definition** Comment content, described in HTML markup language with support for rich text (including text, @mentions, images, and other elements). **Constraints** 1 to 10,000 characters. **Range** N/A **Default Value** N/A
parent_id	No	String	**Definition** Parent ID of the comment, which is the ID of the comment being replied to. **Constraints** This parameter is mandatory when replying to a comment. **Range** A numeric string of 18 to 19 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
root_id	No	String	**Definition** Root ID of the comment, which is the ID of the top-level comment being replied to, used to build the nested comment thread hierarchy. **Constraints** This parameter is mandatory when replying to a comment and cannot be set when creating a comment. **Range** A numeric string of 18 to 19 characters. **Default Value** N/A
at_others	No	String	**Definition** List of user IDs @mentioned in the comment, separated by commas (,). After this parameter is specified, the system notifies the mentioned users. The notification mode can be configured in **Req** > **Settings** > **Work Item** > **Notifications**. **Constraints** Each user ID contains 32 characters. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1501 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status of the comment operation, used to indicate whether the API call is successful. **Range** • **success**: The comment operation is successful. • **error**: The comment operation fails.
message	String	**Definition** Response message of the comment operation. The error message is returned when an API call fails.
result	**CommentEntity** object	**Definition** Comment operation result, including the comment ID, content, creator, creation time, and other complete comment attributes. When deleting a comment, only key fields such as the comment ID, pin status, and last modifier are returned.

Table 4-1502 CommentEntity

Parameter	Type	Description
id	String	**Definition** Comment ID, which uniquely identifies a comment. **Range** A numeric string of 18 to 19 characters.

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Parameter	Type	Description
category	String	**Definition** Comment type, which distinguishes between user-created comments, reply comments, and system-generated key operation comments. **Range** • **comment**: Text comment created by a user. • **reply**: Comment replying to another user. • **operation**: Comment auto-generated by the system based on key operations, such as status transitions and field changes.
type	String	**Definition** Comment metadata type, used by the frontend to distinguish the rendering format of comments. **Range** Fixed at **comment**.
top	Boolean	**Definition** Whether to display the comment in the pinned area. **Range** • **true**: Displayed in the pinned area. • **false**: Not displayed in the pinned area.
top_time	String	**Definition** Unix timestamp of the pin time, in milliseconds. When there are multiple pinned comments, the most recently pinned comment is displayed at the top. **Range** A numeric string of 10 to 19 characters.

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Parameter	Type	Description
description	String	**Definition** Comment content, described using HTML tags with support for rich text (including text, @mentions, images, and other elements). **Range** 1 to 10,000 characters.
issue_id	String	**Definition** ID of the work item to which the comment belongs. It can be obtained by calling the **Querying the Work Item List** API. The value of the **id** field in the response body is the work item ID. **Range** A numeric string of 18 to 19 characters.
top_flag	Boolean	**Definition** Whether the current comment is pinned. **Range** • **true**: Pinned. • **false**: Not pinned.
created_by	String	**Definition** Comment creator ID. **Range** 32 characters.
modified_by	String	**Definition** Last modifier ID of the comment. **Range** 32 characters.
created_date	String	**Definition** Unix timestamp of the comment creation time, in milliseconds. **Range** A numeric string of 10 to 19 characters.

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Parameter	Type	Description
modified_date	String	**Definition** Unix timestamp of the last modification time of the comment, in milliseconds. **Range** A numeric string of 10 to 19 characters.
creator_info	**UserVO** object	**Definition** Detailed information of the comment creator, including the user ID, username, nickname, tenant ID, role, and other attributes.
extend_attribute	String	**Definition** Extended attributes of the comment, expressed as a JSON string, mainly used to describe the operation information associated with system-generated comments (such as status transitions and field changes). Only system comments (**category**: **operation**) have this value. **Range** 0 to 10,000 characters.
extend_attribute_obj	**CommentExtendAttribute** object	**Definition** Extended attribute object of the comment, containing structured information such as the operator, operation action, and values before and after status transitions. Only system comments (**category**: **operation**) have this value.
extend_attribute_objs	Array of **CommentExtendAttribute** objects	**Definition** Array of extended attribute objects for comments, containing structured information for multiple extended operations. Only system comments (**category**: **operation**) have this value.

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Table 4-1503 CommentExtendAttribute

Parameter	Type	Description
operator	**UserVO** object	**Definition** Operator user information, including the user ID, username, tenant ID, role, and other attributes.
operator_id	String	**Definition** Operator ID. **Range** 32 characters.
action	String	**Definition** Chinese description of the action performed when the system generates a comment, such as saving the initial requirement or modifying the status. **Range** N/A
action_us	String	**Definition** English description of the action performed when the system generates a comment, with the same meaning as the **action** field, used for internationalization scenarios. **Range** N/A
object_type	String	**Definition** Object type corresponding to the system-generated comment, used to identify the dimension of the object affected by this operation, such as the status field or owner field. **Range** N/A
pre_status_code	String	**Definition** Status code of the work item before transition, used to identify the previous status of the work item before this operation. **Range** N/A

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Parameter	Type	Description
new_status_code	String	**Definition** Status code of the work item after transition, used to identify the latest status of the work item after this operation. **Range** N/A
pre_status	Object	**Definition** Field value of the work item before transition. The object type varies depending on the **field_type_id** value. • **10001**: StatusVO object. • **10007**, **10008**: String. • **10003**, **10004**: Date and time. • **10005**, **10006**: Number.
new_status	Object	**Definition** Field value of the work item after transition. The object type varies depending on the **field_type_id** value. • **10001**, **10002**: StatusVO object. • **10007**, **10008**: String. • **10003**, **10004**: Date and time. • **10005**, **10006**: Number. • **10009**, **10010**: UserVO object.
field_type	String	**Definition** Field type enumeration value, used together with **field_type_id** to identify the field type affected by this operation, such as **STATUS**. **Range** N/A
field_type_id	String	**Definition** ID corresponding to the field type, used together with **field_type**. For common values and corresponding field value types, see the **pre_status**/**new_status** field description. **Range** N/A

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Parameter	Type	Description
display_name	String	**Definition** Field display name, used to identify the name of the field affected by this operation in the UI, such as status and owner. **Range** N/A

Table 4-1504 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A

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Parameter	Type	Description
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Status code: 400

Table 4-1505 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

- Reply to comment **1223642621183123456** under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**. The comment content includes @mention of user **c2d89e38a64a466f8f945f595df4402d**.

```
POST https://{endpoint}/v1/ipdprojectservice/projects/99719a734aee4f20aae8c8e3bbd4e365/issues/1223642181313880065/comments
```

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```
{
  "category" : "reply",
  "issue_category" : "IR",
  "description" : "<p><span class=\"ql-mention-link\" data-mention-id=\"ForTest\" title=\"ForTest\"
mentionchar=\"@\"><span contenteditable=\"false\">@ForTest</span></span> Could you
please check?</p>",
  "parent_id" : "1223642621183123456",
  "root_id" : "1223642621183123456",
  "at" : "c2d89e38a64a466f8f945f595df4402d",
  "at_others" : "c2d89e38a64a466f8f945f595df4402d"
}
```

- Create a text comment under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**.

```
POST http://{{endpoint}}/v1/ipdprojectservice/projects/99719a734aee4f20aae8c8e3bbd4e365/issues/
1223642181313880065/comments

{
  "category" : "comment",
  "issue_category" : "IR",
  "description" : "<p>Create a comment.</p>"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : {
    "id" : "1223666764846850049",
    "category" : "Comment",
    "type" : "comment",
    "top" : false,
    "description" : "<p>Create a system comment.</p>",
    "at" : "",
    "issue_id" : "1223642181313880065",
    "top_flag" : false,
    "created_by" : "c2d89e38a64a466f8f945f595df4402d",
    "created_date" : "1769674491368",
    "creator_info" : {
      "user_id" : "c2d89e38a64a466f8f945f595df4402d",
      "user_num_id" : null,
      "user_name" : "ForTest",
      "domain_id" : "aae03ca0d6814951980945b6eeca56cd",
      "domain_name" : null,
      "nick_name" : "ForTest",
      "role_id" : "5c78db505ee3486bb91840023c8e6d6c,d40d48b766d74ad680be222c128498c9",
      "role_name" : "Project manager, project administrator.",
      "role_code" : "Project manager,project_admin"
    }
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

- Reply to comment **1223642621183123456** under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**. The comment content includes @mention of user **c2d89e38a64a466f8f945f595df4402d**.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateIpdIssueCommentsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdIssueCommentsRequest request = new CreateIpdIssueCommentsRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        CommentCreateVO body = new CommentCreateVO();
        body.withAt("c2d89e38a64a466f8f945f595df4402d");
        body.withRootId("1223642621183123456");
        body.withParentId("1223642621183123456");
        body.withDescription("<p><span class="ql-mention-link" data-mention-id="ForTest" title="ForTest" mentionchar="@"><span contenteditable="false">@ForTest</span></span> Could you please check?</p>");
        body.withIssueCategory("IR");
        body.withCategory(CommentCreateVO.CommentCreateVO.fromValue("reply"));
        request.withBody(body);
        try {
            CreateIpdIssueCommentsResponse response = client.createIpdIssueComments(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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- Create a text comment under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateIpdIssueCommentsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIpdIssueCommentsRequest request = new CreateIpdIssueCommentsRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        CommentCreateVO body = new CommentCreateVO();
        body.withDescription("<p>Create a comment.</p>");
        body.withIssueCategory("IR");
        body.withCategory(CommentCreateVO.CommentCreateVO.fromValue("comment"));
        request.withBody(body);
        try {
            CreateIpdIssueCommentsResponse response = client.createIpdIssueComments(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

- Reply to comment **1223642621183123456** under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**. The comment content includes @mention of user **c2d89e38a64a466f8f945f595df4402d**.

```
# coding: utf-8
```

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```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdIssueCommentsRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.body = CommentCreateVO(
            at="c2d89e38a64a466f8f945f595df4402d",
            root_id="1223642621183123456",
            parent_id="1223642621183123456",
            description="<p><span class="ql-mention-link" data-mention-id="ForTest" title="ForTest" mentionchar="@"><span contenteditable="false">@ForTest</span></span> Could you please check?</p>",
            issue_category="IR",
            category="reply"
        )
        response = client.create_ipd_issue_comments(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- Create a text comment under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
```

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```
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIpdIssueCommentsRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.body = CommentCreateVO(
            description="<p>Create a comment.</p>",
            issue_category="IR",
            category="comment"
        )
        response = client.create_ipd_issue_comments(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

- Reply to comment **1223642621183123456** under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**. The comment content includes @mention of user **c2d89e38a64a466f8f945f595df4402d**.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.CreateIpdIssueCommentsRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    atCommentCreateVo:= "c2d89e38a64a466f8f945f595df4402d"
    rootIdCommentCreateVo:= "1223642621183123456"
    parentIdCommentCreateVo:= "1223642621183123456"
    descriptionCommentCreateVo:= "<p><span class="ql-mention-link" data-mention-id="ForTest"
title="ForTest" mentionchar="@"><span contenteditable="false">@ForTest</span></
span> Could you please check?</p>"
    issueCategoryCommentCreateVo:= "IR"
    categoryCommentCreateVo:= model.GetCommentCreateVoCategoryEnum().REPLY
    request.Body = &model.CommentCreateVo{
        At: &atCommentCreateVo,
        RootId: &rootIdCommentCreateVo,
        ParentId: &parentIdCommentCreateVo,
        Description: &descriptionCommentCreateVo,
        IssueCategory: &issueCategoryCommentCreateVo,
        Category: &categoryCommentCreateVo,
    }
    response, err := client.CreateIpdIssueComments(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

- Create a text comment under IR work item **1223642181313880065** in project **99719a734aee4f20aae8c8e3bbd4e365**.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.CreateIpdIssueCommentsRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    descriptionCommentCreateVo:= "<p>Create a comment.</p>"
    issueCategoryCommentCreateVo:= "IR"
    categoryCommentCreateVo:= model.GetCommentCreateVoCategoryEnum().COMMENT
    request.Body = &model.CommentCreateVo{
        Description: &descriptionCommentCreateVo,
        IssueCategory: &issueCategoryCommentCreateVo,
        Category: &categoryCommentCreateVo,
    }
    response, err := client.CreateIpdIssueComments(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response for a successful creation.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

4.33.3 Modifying a Work Item Comment

Function

This API is used to modify the content of a specified comment under a work item. Only the comment body and the list of @mentioned users can be modified. Mentioned users will be notified.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

PUT /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/comments/{comment_id}

Table 4-1506 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
comment_id	Yes	String	**Definition** Comment ID, which uniquely identifies a comment. It can be obtained by calling the **Querying Work Item Comments** API. The value of the **result.comment_list.id** field in the response body is the comment ID. **Constraints** N/A **Range** A numeric string of 18 to 19 characters. **Default Value** N/A

Request Parameters

Table 4-1507 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition** Modified comment content, described in HTML markup language with support for rich text (including text, @mentions, images, and other elements). **Constraints** 1 to 10,000 characters. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
at_others	No	String	**Definition** List of user IDs @mentioned in the comment, separated by commas (,). After this parameter is specified, the system notifies the mentioned users. The notification mode can be configured in **Req** > **Settings** > **Work Item** > **Notifications**. **Constraints** Each user ID contains 32 characters. **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1508 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status of the comment operation, used to indicate whether the API call is successful. **Range** • **success**: The comment operation is successful. • **error**: The comment operation fails.
message	String	**Definition** Response message of the comment operation. The error message is returned when an API call fails.

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Parameter	Type	Description
result	CommentEntity object	**Definition** Comment operation result, including the comment ID, content, creator, creation time, and other complete comment attributes. When deleting a comment, only key fields such as the comment ID, pin status, and last modifier are returned.

Table 4-1509 CommentEntity

Parameter	Type	Description
id	String	**Definition** Comment ID, which uniquely identifies a comment. **Range** A numeric string of 18 to 19 characters.
category	String	**Definition** Comment type, which distinguishes between user-created comments, reply comments, and system-generated key operation comments. **Range** • **comment**: Text comment created by a user. • **reply**: Comment replying to another user. • **operation**: Comment auto-generated by the system based on key operations, such as status transitions and field changes.
type	String	**Definition** Comment metadata type, used by the frontend to distinguish the rendering format of comments. **Range** Fixed at **comment**.

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Parameter	Type	Description
top	Boolean	**Definition** Whether to display the comment in the pinned area. **Range** • **true**: Displayed in the pinned area. • **false**: Not displayed in the pinned area.
top_time	String	**Definition** Unix timestamp of the pin time, in milliseconds. When there are multiple pinned comments, the most recently pinned comment is displayed at the top. **Range** A numeric string of 10 to 19 characters.
description	String	**Definition** Comment content, described using HTML tags with support for rich text (including text, @mentions, images, and other elements). **Range** 1 to 10,000 characters.
issue_id	String	**Definition** ID of the work item to which the comment belongs. It can be obtained by calling the **Querying the Work Item List** API. The value of the **id** field in the response body is the work item ID. **Range** A numeric string of 18 to 19 characters.
top_flag	Boolean	**Definition** Whether the current comment is pinned. **Range** • **true**: Pinned. • **false**: Not pinned.

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Parameter	Type	Description
created_by	String	**Definition** Comment creator ID. **Range** 32 characters.
modified_by	String	**Definition** Last modifier ID of the comment. **Range** 32 characters.
created_date	String	**Definition** Unix timestamp of the comment creation time, in milliseconds. **Range** A numeric string of 10 to 19 characters.
modified_date	String	**Definition** Unix timestamp of the last modification time of the comment, in milliseconds. **Range** A numeric string of 10 to 19 characters.
creator_info	**UserVO** object	**Definition** Detailed information of the comment creator, including the user ID, username, nickname, tenant ID, role, and other attributes.
extend_attribute	String	**Definition** Extended attributes of the comment, expressed as a JSON string, mainly used to describe the operation information associated with system-generated comments (such as status transitions and field changes). Only system comments (**category**: **operation**) have this value. **Range** 0 to 10,000 characters.

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Parameter	Type	Description
extend_attribute_obj	**CommentExtendAttribute** object	**Definition** Extended attribute object of the comment, containing structured information such as the operator, operation action, and values before and after status transitions. Only system comments (**category**: **operation**) have this value.
extend_attribute_objs	Array of **CommentExtendAttribute** objects	**Definition** Array of extended attribute objects for comments, containing structured information for multiple extended operations. Only system comments (**category**: **operation**) have this value.

Table 4-1510 CommentExtendAttribute

Parameter	Type	Description
operator	**UserVO** object	**Definition** Operator user information, including the user ID, username, tenant ID, role, and other attributes.
operator_id	String	**Definition** Operator ID. **Range** 32 characters.
action	String	**Definition** Chinese description of the action performed when the system generates a comment, such as saving the initial requirement or modifying the status. **Range** N/A
action_us	String	**Definition** English description of the action performed when the system generates a comment, with the same meaning as the **action** field, used for internationalization scenarios. **Range** N/A

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Parameter	Type	Description
object_type	String	**Definition** Object type corresponding to the system-generated comment, used to identify the dimension of the object affected by this operation, such as the status field or owner field. **Range** N/A
pre_status_code	String	**Definition** Status code of the work item before transition, used to identify the previous status of the work item before this operation. **Range** N/A
new_status_code	String	**Definition** Status code of the work item after transition, used to identify the latest status of the work item after this operation. **Range** N/A
pre_status	Object	**Definition** Field value of the work item before transition. The object type varies depending on the **field_type_id** value. ● **10001**: StatusVO object. ● **10007**, **10008**: String. ● **10003**, **10004**: Date and time. ● **10005**, **10006**: Number.
new_status	Object	**Definition** Field value of the work item after transition. The object type varies depending on the **field_type_id** value. ● **10001**, **10002**: StatusVO object. ● **10007**, **10008**: String. ● **10003**, **10004**: Date and time. ● **10005**, **10006**: Number. ● **10009**, **10010**: UserVO object.

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Parameter	Type	Description
field_type	String	**Definition** Field type enumeration value, used together with **field_type_id** to identify the field type affected by this operation, such as **STATUS**. **Range** N/A
field_type_id	String	**Definition** ID corresponding to the field type, used together with **field_type**. For common values and corresponding field value types, see the **pre_status**/**new_status** field description. **Range** N/A
display_name	String	**Definition** Field display name, used to identify the name of the field affected by this operation in the UI, such as status and owner. **Range** N/A

Table 4-1511 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A

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Parameter	Type	Description
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Status code: 400

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Table 4-1512 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

Modify comment **1013376662760370177** under work item **1013376545030451200** in project **7493564f7c044511861d2a1deba53806**.

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/7493564f7c044511861d2a1deba53806/issues/
1013376545030451200/comments/1013376662760370177

{
  "description" : "<p>Another reply 21112.</p>"
}
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : {
    "id" : "1225551336203448321",
    "category" : "Reply",
    "type" : "comment",
    "top" : false,
    "description" : "<p>1111</p><p><span class=\"ql-mention-link\" title=\"ForTest\" mentionchar=\"@\">
\uFEFF<span contenteditable=\"false\">@ForTest</span>\uFEFF</span></p><p><img src=\"/api/ipdproject/
openapi/v1/projects/2f4e18b0bcf34331acbc23c8692266b3/imgs/f75136f467924a7bbb99f13b7a2428a8.png
\" style=\"vertical-align: baseline;\"></p>",
    "at" : "c2d89e38a64a466f8f945f595df4402d",
    "issue_id" : "1225113610320470016",
    "parent_id" : "1225498465597218817",
    "root_id" : "1225498465597218817",
    "top_flag" : false,
    "created_by" : "c2d89e38a64a466f8f945f595df4402d",
    "created_date" : "1770123808193",
    "creator_info" : {
      "user_id" : "c2d89e38a64a466f8f945f595df4402d",
      "user_num_id" : null,
      "user_name" : "ForTest",
      "domain_id" : "aae03ca0d6814951980945b6eeca56cd",
      "domain_name" : null,
      "nick_name" : "ForTest",
      "role_id" : "92888e959cf544a1b220b6601b6e5402,078d8048707f4aa9a2f8b064cae589e9",
      "role_name" : "Project manager, project administrator.",
```

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```
    "role_code" : "Project manager,project_admin"
   }
  }
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Modify comment **1013376662760370177** under work item **1013376545030451200** in project **7493564f7c044511861d2a1deba53806**.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateIpdIssueCommentSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateIpdIssueCommentRequest request = new UpdateIpdIssueCommentRequest();
        request.withCommentId("{comment_id}");
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        CommentUpdateVO body = new CommentUpdateVO();
        body.withDescription("<p>Another reply 21112.</p>");
        request.withBody(body);
        try {
            UpdateIpdIssueCommentResponse response = client.updateIpdIssueComment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
```

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```
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Modify comment **1013376662760370177** under work item **1013376545030451200** in project **7493564f7c044511861d2a1deba53806**.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateIpdIssueCommentRequest()
        request.comment_id = "{comment_id}"
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.body = CommentUpdateVO(
            description="<p>Another reply 21112.</p>"
        )
        response = client.update_ipd_issue_comment(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Modify comment **1013376662760370177** under work item **1013376545030451200** in project **7493564f7c044511861d2a1deba53806**.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
```

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```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateIpdIssueCommentRequest{}
    request.CommentId = "{comment_id}"
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    descriptionCommentUpdateVo:= "<p>Another reply 21112.</p>"
    request.Body = &model.CommentUpdateVo{
        Description: &descriptionCommentUpdateVo,
    }
    response, err := client.UpdateIpdIssueComment(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response for a successful modification.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

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Error Codes

See **Error Codes**.

4.33.4 Deleting a Work Item Comment

Function

This API is used to delete a specified comment under a work item. The deletion is irreversible. Proceed with caution.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/comments/{comment_id}

Table 4-1513 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A
comment_id	Yes	String	**Definition** Comment ID, which uniquely identifies a comment. It can be obtained by calling the **Querying Work Item Comments** API. The value of the **result.comment_list.id** field in the response body is the comment ID. **Constraints** N/A **Range** A numeric string of 18 to 19 characters. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1514 Response body parameters

Parameter	Type	Description
status	String	**Definition** Response status of the comment operation, used to indicate whether the API call is successful. **Range** • **success**: The comment operation is successful. • **error**: The comment operation fails.
message	String	**Definition** Response message of the comment operation. The error message is returned when an API call fails.
result	**CommentEntity** object	**Definition** Comment operation result, including the comment ID, content, creator, creation time, and other complete comment attributes. When deleting a comment, only key fields such as the comment ID, pin status, and last modifier are returned.

Table 4-1515 CommentEntity

Parameter	Type	Description
id	String	**Definition** Comment ID, which uniquely identifies a comment. **Range** A numeric string of 18 to 19 characters.

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Parameter	Type	Description
category	String	**Definition** Comment type, which distinguishes between user-created comments, reply comments, and system-generated key operation comments. **Range** • **comment**: Text comment created by a user. • **reply**: Comment replying to another user. • **operation**: Comment auto-generated by the system based on key operations, such as status transitions and field changes.
type	String	**Definition** Comment metadata type, used by the frontend to distinguish the rendering format of comments. **Range** Fixed at **comment**.
top	Boolean	**Definition** Whether to display the comment in the pinned area. **Range** • **true**: Displayed in the pinned area. • **false**: Not displayed in the pinned area.
top_time	String	**Definition** Unix timestamp of the pin time, in milliseconds. When there are multiple pinned comments, the most recently pinned comment is displayed at the top. **Range** A numeric string of 10 to 19 characters.

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Parameter	Type	Description
description	String	**Definition** Comment content, described using HTML tags with support for rich text (including text, @mentions, images, and other elements). **Range** 1 to 10,000 characters.
issue_id	String	**Definition** ID of the work item to which the comment belongs. It can be obtained by calling the **Querying the Work Item List** API. The value of the **id** field in the response body is the work item ID. **Range** A numeric string of 18 to 19 characters.
top_flag	Boolean	**Definition** Whether the current comment is pinned. **Range** • **true**: Pinned. • **false**: Not pinned.
created_by	String	**Definition** Comment creator ID. **Range** 32 characters.
modified_by	String	**Definition** Last modifier ID of the comment. **Range** 32 characters.
created_date	String	**Definition** Unix timestamp of the comment creation time, in milliseconds. **Range** A numeric string of 10 to 19 characters.

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Parameter	Type	Description
modified_date	String	**Definition** Unix timestamp of the last modification time of the comment, in milliseconds. **Range** A numeric string of 10 to 19 characters.
creator_info	**UserVO** object	**Definition** Detailed information of the comment creator, including the user ID, username, nickname, tenant ID, role, and other attributes.
extend_attribute	String	**Definition** Extended attributes of the comment, expressed as a JSON string, mainly used to describe the operation information associated with system-generated comments (such as status transitions and field changes). Only system comments (**category**: **operation**) have this value. **Range** 0 to 10,000 characters.
extend_attribute_obj	**CommentExtendAttribute** object	**Definition** Extended attribute object of the comment, containing structured information such as the operator, operation action, and values before and after status transitions. Only system comments (**category**: **operation**) have this value.
extend_attribute_objs	Array of **CommentExtendAttribute** objects	**Definition** Array of extended attribute objects for comments, containing structured information for multiple extended operations. Only system comments (**category**: **operation**) have this value.

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Table 4-1516 CommentExtendAttribute

Parameter	Type	Description
operator	**UserVO** object	**Definition** Operator user information, including the user ID, username, tenant ID, role, and other attributes.
operator_id	String	**Definition** Operator ID. **Range** 32 characters.
action	String	**Definition** Chinese description of the action performed when the system generates a comment, such as saving the initial requirement or modifying the status. **Range** N/A
action_us	String	**Definition** English description of the action performed when the system generates a comment, with the same meaning as the **action** field, used for internationalization scenarios. **Range** N/A
object_type	String	**Definition** Object type corresponding to the system-generated comment, used to identify the dimension of the object affected by this operation, such as the status field or owner field. **Range** N/A
pre_status_code	String	**Definition** Status code of the work item before transition, used to identify the previous status of the work item before this operation. **Range** N/A

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Parameter	Type	Description
new_status_code	String	**Definition** Status code of the work item after transition, used to identify the latest status of the work item after this operation. **Range** N/A
pre_status	Object	**Definition** Field value of the work item before transition. The object type varies depending on the **field_type_id** value. • **10001**: StatusVO object. • **10007**, **10008**: String. • **10003**, **10004**: Date and time. • **10005**, **10006**: Number.
new_status	Object	**Definition** Field value of the work item after transition. The object type varies depending on the **field_type_id** value. • **10001**, **10002**: StatusVO object. • **10007**, **10008**: String. • **10003**, **10004**: Date and time. • **10005**, **10006**: Number. • **10009**, **10010**: UserVO object.
field_type	String	**Definition** Field type enumeration value, used together with **field_type_id** to identify the field type affected by this operation, such as **STATUS**. **Range** N/A
field_type_id	String	**Definition** ID corresponding to the field type, used together with **field_type**. For common values and corresponding field value types, see the **pre_status**/**new_status** field description. **Range** N/A

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Parameter	Type	Description
display_name	String	**Definition** Field display name, used to identify the name of the field affected by this operation in the UI, such as status and owner. **Range** N/A

Table 4-1517 UserVO

Parameter	Type	Description
user_id	String	**Definition** User ID. **Range** N/A
user_num_id	Integer	**Definition** Short ID of a user. **Range** N/A
user_name	String	**Definition** Username. **Range** N/A
domain_id	String	**Definition** ID of the domain to which the user belongs. **Range** N/A
domain_name	String	**Definition** Tenant name. **Range** N/A
nick_name	String	**Definition** User alias. **Range** N/A

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Parameter	Type	Description
role_id	String	**Definition** Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. **Range** N/A
role_name	String	**Definition** Role name. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A
role_code	String	**Definition** Role code. If a user has multiple roles, use commas (,) to separate the values. **Range** N/A

Example Requests

Delete comment **1013376662760370177** under work item **1013376545030451200** in project **7493564f7c044511861d2a1deba53806**.

```
DELETE https://{endpoint}/v1/ipdprojectservice/projects/7493564f7c044511861d2a1deba53806/issues/1013376545030451200/comments/1013376662760370177
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : "",
  "result" : {
    "id" : "1225551336203448321",
    "top" : false,
    "modified_by" : "c2d89e38a64a466f8f945f595df4402d"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

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```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteIpdIssueCommentSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteIpdIssueCommentRequest request = new DeleteIpdIssueCommentRequest();
        request.withCommentId("{comment_id}");
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        try {
            DeleteIpdIssueCommentResponse response = client.deleteIpdIssueComment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
```

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```
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteIpdIssueCommentRequest()
        request.comment_id = "{comment_id}"
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        response = client.delete_ipd_issue_comment(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.DeleteIpdIssueCommentRequest{}
    request.CommentId = "{comment_id}"
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    response, err := client.DeleteIpdIssueComment(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

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```
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	**Definition** Response for a successful comment deletion. **Range** N/A

Error Codes

See **Error Codes**.

4.34 User Information

4.34.1 Updating the Nickname of a Subuser

Function

This API is used to enable the user with the **te_admin** role to update alias of other users.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:member:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v4/domain/child-users

Request Parameters

Table 4-1518 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-1519 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of **UpdateChildUserNickNameRequestBody** objects	**Definition**: List of modified users. **Constraints**: N/A

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Table 4-1520 UpdateChildUserNickNameRequestBody

Parameter	Mandatory	Type	Description
nick_name	Yes	String	**Definition**: User alias. **Constraints**: N/A **Options**: N/A **Default value**: N/A
user_id	Yes	String	**Definition** User ID, you can obtain it by calling the API for **obtaining the list of members in a specified project**. The value of **user_id** in the response body is the user ID. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

Table 4-1521 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A

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Parameter	Type	Description
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-1522 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/domain/child-users

{
  "users" : [ {
    "nick_name" : "Tom",
    "user_id" : "08777d423500d4b01fe5c008d04336ab"
  } ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchUpdateChildNickNamesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchUpdateChildNickNamesRequest request = new BatchUpdateChildNickNamesRequest();
        BatchUpdateChildUserNickNamesRequestBody body = new BatchUpdateChildUserNickNamesRequestBody();
        List<UpdateChildUserNickNameRequestBody> listbodyUsers = new ArrayList<>();
        listbodyUsers.add(
            new UpdateChildUserNickNameRequestBody()
                .withNickName("Tom")
                .withUserId("08777d423500d4b01fe5c008d04336ab")
        );
        body.withUsers(listbodyUsers);
        request.withBody(body);
        try {
            BatchUpdateChildNickNamesResponse response = client.batchUpdateChildNickNames(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

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```
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchUpdateChildNickNamesRequest()
        listUsersbody = [
            UpdateChildUserNickNameRequestBody(
                nick_name="Tom",
                user_id="08777d423500d4b01fe5c008d04336ab"
            )
        ]
        request.body = BatchUpdateChildUserNickNamesRequestBody(
            users=listUsersbody
        )
        response = client.batch_update_child_nick_names(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }
```

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```
    hcClient, err := projectman.ProjectManClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.BatchUpdateChildNickNamesRequest{}
    var listUsersbody = []model.UpdateChildUserNickNameRequestBody{
        {
            NickName: "Tom",
            UserId: "08777d423500d4b01fe5c008d04336ab",
        },
    }
    request.Body = &model.BatchUpdateChildUserNickNamesRequestBody{
        Users: listUsersbody,
    }
    response, err := client.BatchUpdateChildNickNames(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.34.2 Obtains the role of the current user.

Function

Obtaining the Role of a User in a Project

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Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:project:list	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/projects/{project_id}/user-role

Table 4-1523 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** A 32-character UUID. It uniquely identifies a project. Obtain a project ID by calling the **API for querying projects**. The value of **project_id** in the response message body is a project ID. **Constraints** A string of 32 characters consisting of letters and digits. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-1524 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1525 Response body parameters

Parameter	Type	Description
user_role	Integer	**Definition**: Role ID of a user, which is used to indicate the member role. **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager

Status code: 400

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Table 4-1526 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-1527 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/user-role
```

Example Responses

Status code: 200

```
{
  "user_role" : 3
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowCurUserRoleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowCurUserRoleRequest request = new ShowCurUserRoleRequest();
        request.withProjectId("{project_id}");
        try {
            ShowCurUserRoleResponse response = client.showCurUserRole(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowCurUserRoleRequest()
        request.project_id = "{project_id}"
        response = client.show_cur_user_role(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)
```

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```
    request := &model.ShowCurUserRoleRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowCurUserRole(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.34.3 Obtains the current user information.

Function

Obtains the current user information.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

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Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:member:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v4/user

Request Parameters

Table 4-1528 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-1529 Response body parameters

Parameter	Type	Description
created_time	Long	**Definition**: Creation time, in Unix timestamp format (ms). **Options**: N/A
domain_id	String	**Definition** Tenant ID. **Range** N/A
domain_name	String	**Definition**: Tenant name. **Options**: N/A
gender	String	**Definition**: Gender. The options are: **male** **female** **Options**: **male** and **female**
nick_name	String	**Definition**: User nickname. **Options**: N/A
updated_time	Long	**Definition**: Update time, in Unix timestamp format (ms). **Options**: N/A
user_id	String	**Definition** User ID. **Range** N/A
user_name	String	**Definition**: Username. **Options**: N/A

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Parameter	Type	Description
user_num_id	Integer	**Definition**: Digital ID of a user. **Options**: N/A
user_type	String	**Definition**: User type. **Value range**: **User**: cloud user **Federation**: federated account

Status code: 400

Table 4-1530 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-1531 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

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Parameter	Type	Description
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
GET https://{endpoint}/v4/user
```

Example Responses

Status code: 200

```
{
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "domain_name" : "demo_user_name",
  "user_num_id" : "4060",
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_name" : "demo_user_name",
  "nick_name" : "example_name",
  "created_time" : "1562318865000",
  "updated_time" : "1598074854000",
  "gender" : "male",
  "user_type" : "User"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowCurUserInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
```

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```
            .withSk(sk);

    ProjectManClient client = ProjectManClient.newBuilder()
            .withCredential(auth)
            .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
            .build();
    ShowCurUserInfoRequest request = new ShowCurUserInfoRequest();
    try {
        ShowCurUserInfoResponse response = client.showCurUserInfo(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
  }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowCurUserInfoRequest()
        response = client.show_cur_user_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
```

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```
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowCurUserInfoRequest{}
    response, err := client.ShowCurUserInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.34.4 Updating a User Nickname

Function

Updating a User Nickname

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:member:update	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

PUT /v4/user

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Request Parameters

Table 4-1532 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-1533 Request body parameters

Parameter	Mandatory	Type	Description
nick_name	Yes	String	**Definition** User alias. You can obtain the **nick_name** field of a specified project member using the API for **obtaining the user list of a specified project**. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

None

Status code: 400

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Table 4-1534 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-1535 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Example Requests

```
PUT https://{endpoint}/v4/user

{
  "nick_name" : "Tom"
}
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateNickNameV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateNickNameV4Request request = new UpdateNickNameV4Request();
        UpdateUserNickNameRequestV4 body = new UpdateUserNickNameRequestV4();
        body.withNickName("Tom");
        request.withBody(body);
        try {
            UpdateNickNameV4Response response = client.updateNickNameV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *
```

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```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateNickNameV4Request()
        request.body = UpdateUserNickNameRequestV4(
            nick_name="Tom"
        )
        response = client.update_nick_name_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
```

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```
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.UpdateNickNameV4Request{}
    request.Body = &model.UpdateUserNickNameRequestV4{
        NickName: "Tom",
    }
    response, err := client.UpdateNickNameV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.35 REST APIs for All Issue Severity Operations

4.35.1 Querying All Severities

Function

This API is used to query all severities.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

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URI

GET /v2/issue-severity/all

Request Parameters

Table 4-1536 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1537 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The modification is successful. **error**: The modification fails.

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Table 4-1538 result

Parameter	Type	Description
severities	Array of **severities** objects	**Definition**: Severity.

Table 4-1539 severities

Parameter	Type	Description
id	Integer	**Definition** Enumerated ID of severity. **Range** N/A
name	String	**Definition**: Severity level. **Value range**: **Critical**, **Major**, **Minor**, and **Trivial**
position	Integer	**Definition**: Enumerated position of severity. **Value range**: N/A
isDefault	Boolean	**Definition**: Whether the severity is the default value. **Value range**: **true** (default value) **false** (not the default value)
type	String	**Definition**: Severity type. **Value range**: **Critical**, **Major**, **Minor**, and **Trivial**
active	Boolean	**Definition**: Whether the severity is common. **Value range**: **false** (uncommon) **true** (common)

Status code: 400

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Table 4-1540 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Status code: 401

Table 4-1541 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A
request_id	String	**Definition** Request ID, which is automatically generated by the system. **Range** N/A

Status code: 403

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Table 4-1542 Response body parameters

Parameter	Type	Description
error_code	String	**Definition**: Error code. **Value range**: N/A
error_msg	String	**Definition**: Error description. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/issue-severity/all
```

Example Responses

Status code: 200

```
{
  "result" : {
    "severities" : [ {
      "id" : 10,
      "name" : "Critical",
      "position" : 1,
      "isDefault" : false,
      "type" : "Severity",
      "active" : true
    }, {
      "id" : 11,
      "name" : "Major",
      "position" : 1,
      "isDefault" : false,
      "type" : "Severity",
      "active" : true
    }, {
      "id" : 12,
      "name" : "Minor",
      "position" : 1,
      "isDefault" : true,
      "type" : "Severity",
      "active" : true
    }, {
      "id" : 13,
      "name" : "Trivial",
      "position" : 1,
      "isDefault" : false,
      "type" : "Severity",
      "active" : true
    } ]
  },
  "status" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowScrumIssueSeveritiesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowScrumIssueSeveritiesRequest request = new ShowScrumIssueSeveritiesRequest();
        try {
            ShowScrumIssueSeveritiesResponse response = client.showScrumIssueSeverities(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]
```

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```
credentials = BasicCredentials(ak, sk)

client = ProjectManClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowScrumIssueSeveritiesRequest()
    response = client.show_scrum_issue_severities(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth, err := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        SafeBuild()

    if err != nil {
        fmt.Println(err)
        return
    }

    hcClient, err := projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         SafeBuild()


    if err != nil {
        fmt.Println(err)
        return
    }

    client := projectman.NewProjectManClient(hcClient)

    request := &model.ShowScrumIssueSeveritiesRequest{}
    response, err := client.ShowScrumIssueSeverities(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
```

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```
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	This API is used to query the JSON strings of all severities.
400	Bad Request
401	Unauthorized
403	Forbidden

Error Codes

See **Error Codes**.

4.36 Plans of a Scrum Project

4.36.1 Querying the Work Items That Can Be Added to the Current Plan

Function

This API is used to query the work items that can be added to the current plan.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

POST /v3/plan/{project_id}/{plan_id}/addable-issues

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Table 4-1543 Path Parameters

Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Plan ID, which can be obtained by calling the **Querying All Plans Visible to the Current User in Pagination Mode** API. The value of **id** in the response message body is the plan ID. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-1544 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Table 4-1545 Request body parameters

Parameter	Mandatory	Type	Description
subject	No	String	**Definition**: Filter criteria for querying the work item list. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-1546 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

Table 4-1547 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of work items. **Value range**: N/A
issue_cur_count	Integer	**Definition**: Number of current work items. **Value range**: N/A
issues	Array of **Issue** objects	**Definition**: Work item.

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Table 4-1548 Issue

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
subject	String	**Definition**: Owner of a work item. **Value range**: N/A
project	**Project** object	**Definition**: Project. **Value range**: N/A
is_parent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
findReleaseDev	String	**Definition**: Releaser. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
assigned_to	**IssueAssignedVO** object	**Definition**: Work item owner. **Value range**: N/A
status_attribute	Object	**Definition**: Work item status. **Value range**: N/A
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Release version of a work item. **Value range**: N/A
author	**IssueAuthorVO** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A

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Parameter	Type	Description
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: favorited. **false**: not favorited.
deleted	Boolean	**Definition**: Whether to delete. **Value range**: **true**: delete **false**: not delete
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A

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Parameter	Type	Description
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **true**: yes **false**: no.
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0** (enabled) **1** (disabled)
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A

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Parameter	Type	Description
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-1549 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

Table 4-1550 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A

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Parameter	Type	Description
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-1551 Tracker

Parameter	Type	Description
name	String	**Definition** Type name. **Range** • **Task** • **Bug** • **Epic** • **Feature** • **Story**
id	Integer	**Definition**: Type ID. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-1552 IssueAssignedVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-1553 Severity

Parameter	Type	Description
name	String	**Definition** Work item severity. **Range** • Critical • Major • Minor • Informational

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Parameter	Type	Description
id	Integer	**Definition**: Severity ID. **Value range**: **10**: critical **11**: major **12**: minor **13**: information

Table 4-1554 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-1555 Priority

Parameter	Type	Description
name	String	**Definition** Work item priority. **Range** • Low • Medium • High
id	Integer	**Definition**: Priority ID. **Value range**: **1**: low **2**: medium **3**: high

Table 4-1556 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: New Developing Resolved Testing Closed Rejected

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Parameter	Type	Description
id	Integer	**Definition**: Status ID. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected

Example Requests

```
POST https://{endpoint}/v3/plan/381fcca9c056482d92da3e8b9da71db5/
c573497c87414e97a29444c0054c1361/addable-issues

{
  "subject" : "",
  "page_no" : "1",
  "page_size" : "15"
}
```

Example Responses

Status code: 200

```
{
  "result" : {
    "total_count" : 321,
    "issue_cur_count" : 0,
    "issues" : [ {
      "updated_on" : "1753695191000",
      "subject" : "Another work item",
      "project" : {
        "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
        "name" : "Scrum0610ceshi",
        "id" : 34883337
      },
      "done_ratio" : 0,
      "tracker" : {
        "name" : "Epic",
        "id" : 5
      },
      "id" : 9191004,
      "start_date" : "1753660800000",
      "assigned_to" : {
        "assigned_nick_name" : "Sam 1",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "image_id" : "photo01.png",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "status_attribute" : { },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
```

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```
    "author" : {
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "module" : { },
    "due_date" : "1753747200000",
    "expected_work_hours" : 0,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1753695183000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "position" : "9191004.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "custom_value_new" : { },
    "status" : {
      "name" : "New",
      "id" : 1
    }
  }, {
    "updated_on" : "1752465766000",
    "subject" : "Work item",
    "project" : {
      "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
      "name" : "Scrum0610ceshi",
      "id" : 34883337
    },
    "done_ratio" : 0,
    "tracker" : {
      "name" : "Epic",
      "id" : 5
    },
    "id" : 9168625,
    "start_date" : "1752451200000",
    "assigned_to" : {
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "module" : { },
    "due_date" : "1752537600000",
    "expected_work_hours" : 0,
```


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```
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1752465765000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "position" : "9168625.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "custom_value_new" : { },
    "status" : {
      "name" : "New",
      "id" : 1
    }
   } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to a successful request for querying a work item API that can be added to the current plan.

Error Codes

See **Error Codes**.

4.36.2 Querying a Plan

Function

This API is used to query a plan.

Calling Method

For details, see **Calling APIs**.

Authorization Information

No identity policy-based permission required for calling this API.

URI

GET /v3/plan/{project_id}/{plan_id}/info

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Table 4-1557 Path Parameters

Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Plan ID, which can be obtained by calling the **Querying All Plans Visible to the Current User in Pagination Mode** API. The value of **id** in the response message body is the plan ID. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-1558 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token. Obtain a token by calling the IAM API for **obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints** N/A **Range** The value contains 10 to 32,768 characters. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-1559 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: The API is successfully called. **error**: The API call failed.

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Table 4-1560 result

Parameter	Type	Description
id	String	**Definition**: Plan ID. **Value range**: N/A
name	String	**Definition**: Plan name. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Value range**: N/A
creator	**creator** object	**Definition**: Plan creator. **Value range**: N/A
updater	**updater** object	**Definition**: Plan updater. **Value range**: N/A
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A

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Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated, in timestamp format, for example, **1839340800000**. **Value range**: N/A

Table 4-1561 creator

Parameter	Type	Description
user_id	String	**Definition**: User ID. **Value range**: N/A
domain_id	String	**Definition**: Domain name ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-1562 updater

Parameter	Type	Description
user_id	String	**Definition**: User ID. **Value range**: N/A

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Parameter	Type	Description
domain_id	String	**Definition**: Domain name ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Example Requests

```
{endpoint}/v3/plan/381fcca9c056482d92da3e8b9da71db5/c573497c87414e97a29444c0054c1361/info
```

Example Responses

Status code: 200

```
{
  "result" : {
    "id" : "f8f870c2b84548548cb75aa61382b894",
    "name" : "00000",
    "type" : "gantt",
    "project_id" : "c15cc54e338d4506afd9bd8103071ff0",
    "creator" : {
      "user_id" : "xxxxxx",
      "domain_id" : "xxxxxx",
      "nick_name" : "xxxxxx",
      "first_name" : "xxxxxx"
    },
    "updater" : {
      "user_id" : "xxxxxx",
      "domain_id" : "xxxxxx",
      "nick_name" : "xxxxxx",
      "first_name" : "xxxxxx"
    },
    "created_on" : "1752828658000",
    "updated_on" : "1752828658000"
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying a plan.

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Error Codes

See **Error Codes**.

4.37 IPD work item history

4.37.1 Querying Work Item History of an IPD Project

Function

This API is used to query work item history of an IPD project.

Calling Method

For details, see **Calling APIs**.

Authorization Information

Each account root user has all the permissions required to call all APIs, but IAM users must be assigned the following required identity policy-based permissions. For details about the required permissions, see **Permissions Policies and Supported Actions**.

Action	Access Level	Resource Type (*: required)	Condition Key	Alias	Dependencies
codeartsreq:workitem:get	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-	-

URI

GET /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/history

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Table 4-1563 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition** 32-character ID of a project, which must be unique. Obtain the value by calling the API for **querying the IPD project list**. The value of **id** in the response message body is the project ID. **Constraints** N/A **Range** A string of 32 characters consisting of letters and digits. **Default Value** N/A
issue_id	Yes	String	**Definition** Unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints** N/A **Range** A string of 18 to 19 digits. **Default Value** N/A

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Table 4-1564 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Number of data records returned on each page. **Constraints** N/A **Range** 1 to 200. **Default Value** 20
offset	No	Integer	**Definition** Start page number. The value starts from **0** and is an integer multiple of **limit**. **Constraints** The value must be a multiple of **limit**. **Range** ≥ 0 **Default Value** 0
start_date	No	Long	**Definition** Start date and time timestamp. It must be used together with **end_date**. **Constraints** Must be earlier than the current time. The minimum unit is day. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
end_date	No	Long	**Definition** End date and time timestamp. It must be used together with **start_date**. **Constraints** Must be later than the current work item creation time. The minimum unit is day. **Range** N/A **Default Value** N/A
return_fields	No	String	**Definition** Operation records of a specific field to be returned. **Constraints** 0 to 32 characters. **Range** Unique code of the corresponding field. The optional values can be obtained by calling the **Querying Field Templates** API. The **code** in the response body is the unique identifier of the field. **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-1565 Response body parameters

Parameter	Type	Description
result	**HistoryDataVO** object	**Definition** History record result set. **Range** N/A
status	String	**Definition** Request result. **Range** • **success**: Succeeded. • **failed**: Failed.
message	String	**Definition** Error message returned when the request fails. **Range** N/A

Table 4-1566 HistoryDataVO

Parameter	Type	Description
data	Array of **HistoryVO** objects	**Definition** Array of history record objects. **Range** N/A
page	Integer	**Definition** Page number. **Range** Minimum: **1**. Maximum: No limit.
size	Integer	**Definition** Page size. **Range** N/A
total	Integer	**Definition** Total number of history records. **Range** N/A

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Table 4-1567 HistoryVO

Parameter	Type	Description
batch	String	**Definition** Batch of the history record. **Range** N/A
date	String	**Definition** Timestamp of the history record generation date. **Range** N/A
user	String	**Definition** ID of the user who generated the history record. **Range** N/A
user_info	**UserEntity** object	**Definition** User object that generated the history record. **Range** N/A
items	Array of **HistoryItemVO** objects	**Definition** History record operation item. **Range** N/A
issue_id	String	**Definition** ID of the work item associated with the history record. **Range** N/A

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Parameter	Type	Description
issue_category	String	**Definition** Work item type. **Range** Multiple work item types are supported, separated by commas (,). • System device projects: **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. • Standalone software projects: **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. • Cloud service projects: **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. • Custom requirement model projects: Obtain the value by calling the **Obtaining the Model Tree Configuration** API. The **icon** field of the object in the **categories** field determines the work item type, and the **code** field value is the work item type code.

Table 4-1568 UserEntity

Parameter	Type	Description
id	String	**Definition** User ID. Obtain it by calling the API for **querying project members**. The value of **id** in the response message body is the user ID. **Range** N/A
name	String	**Definition** Username. **Range** 2 to 64 characters.
nick_name	String	**Definition** User alias. **Range** 2 to 30 characters

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Table 4-1569 HistoryItemVO

Parameter	Type	Description
operation	String	**Definition** Operation type. **Range** N/A
display_operation	String	**Definition** Display value of the operation type, describing the specific operation. **Range** N/A
field_info	**HistoryFieldInfo** object	**Definition** Basic information of the operated field. **Range** N/A
current_value	Object	**Definition** Value after the field is modified. **Range** N/A
previous_value	Object	**Definition** Value after the field is modified. **Range** N/A

Table 4-1570 HistoryFieldInfo

Parameter	Type	Description
id	String	**Definition** ID of the modified field in the history record. **Range** N/A
display_name	String	**Definition** Display name of the modified field in the history record. **Range** N/A

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Parameter	Type	Description
name	String	**Definition** Code of the modified field in the history record, used as the unique identifier of the field. **Range** N/A
field_type_id	String	**Definition** ID of the modified field type in the history record. **Range** • **10001**: Single-choice list. • **10002**: Multi-choice list. • **10003**: Date. • **10004**: Date and time. • **10005**: Integer. • **10006**: Decimal. • **10007**: Single-line text. • **10008**: Multi-line text. • **10009**: Single-choice user. • **10010**: Multi-choice user. • **10011**: Hierarchical field.
field_type_name	String	**Definition** Type name of the modified field in the history record. **Range** • Single-choice list • Multi-choice list • Date • Date and time • Integer • Decimal • Single-line text • Multi-line text • Single-choice user • Multi-choice user • Hierarchy field

Status code: 400

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Table 4-1571 Response body parameters

Parameter	Type	Description
error_code	String	**Definition** Error code. **Range** N/A
error_msg	String	**Definition** Error description, which is a supplement to **error_code**. **Range** N/A

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/history?
return_fields=&offset=0&limit=20
```

Example Responses

Status code: 200


```
{
  "result" : {
    "data" : [ {
      "batch" : "33fedc760b0149d985ff135778101e21",
      "date" : "1744701473656",
      "user" : "a360371833bf4c558f796fd707b44daf",
      "user_info" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_01",
        "nick_name" : "Tom"
      },
      "items" : [ {
        "operation" : "ASSIGN",
        "display_operation" : "Updated the status",
        "field_info" : {
          "id" : "10005",
          "display_name" : "Status",
          "name" : "status",
          "field_type_id" : "10007",
          "field_type_name" : "Single-choice list"
        },
        "current_value" : [ {
          "id" : "1050710945722966043",
          "belonging" : "START",
          "display_value" : "Submit",
          "code" : "Committed",
          "created_by" : "a360371833bf4c558f796fd707b44daf",
          "modified_by" : "a360371833bf4c558f796fd707b44daf",
          "modified_time" : "1728438610725"
        } ],
        "previous_value" : [ ]
      } ],
      "issue_id" : "1118922335965982721",
      "issue_category" : "RR"
    } ],
    "page" : 1,
```


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```
    "size" : 20,
    "total" : 2
  },
  "status" : "success",
  "message" : null
}
```

Status code: 400

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Response for a successful history record query.
400	Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

Error Codes

See **Error Codes**.

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5 Permissions and Supported Actions

5.1 Actions Supported by Identity Policy-based Authorization

IAM provides system-defined identity policies to define typical cloud service permissions. You can also create custom identity policies using the actions supported by cloud services for more refined access control.

In addition to IAM, the **Organizations** service also provides **Service Control Policies (SCPs)** to set access control policies.

SCPs do not actually grant any permissions to an entity. They only set the permissions boundary for the entity. When SCPs are attached to an organizational unit (OU) or a member account, the SCPs do not directly grant permissions to that OU or member account. Instead, the SCPs only determine what permissions are available for that member account or those member accounts under that OU. The granted permissions can be applied only if they are allowed by the SCPs.

To learn more about how IAM is different from Organizations for access control, see **How IAM Is Different from Organizations for Access Control?**.

This section describes the elements used by IAM custom identity policies and Organizations SCPs. The elements include actions, resources, and conditions.

- For details about how to use these elements to edit an IAM custom identity policy, see **Creating a Custom Identity Policy**.
- For details about how to use these elements to edit a custom SCP, see **Creating an SCP**.

Actions

Actions are specific operations that are allowed or denied in an identity policy.

- The Access Level column describes how the action is classified (List, Read, or Write). This classification helps you understand the level of access that an action grants when you use it in an identity policy.
- The Resource Type column indicates whether the action supports resource-level permissions.

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  - You can use a wildcard (*) to indicate all resource types. If this column is empty (-), the action does not support resource-level permissions and you must specify all resources ("*") in your identity policy statements.
  - If this column includes a resource type, you must specify the URN in the Resource element of your identity policy statements.
  - Required resources are marked with asterisks (*) in the table. If you specify a resource in a statement using this action, then it must be of this type.

  For details about the resource types defined by CodeArts Req, see **Resources**.
- The Condition Key column contains keys that you can specify in the Condition element of an identity policy statement.
  - If the Resource Type column has values for an action, the condition key takes effect only for the listed resource types.
  - If the Resource Type column is empty (-) for an action, the condition key takes effect for all resources that action supports.
  - If the Condition Key column is empty (-) for an action, the action does not support any condition keys.

  For details about the condition keys defined by CodeArts Req, see **Conditions**.
- The Alias column lists the policy actions that are configured in identity policies. With these actions, you can use APIs for policy-based authorization. For details, see **Policies and Identity Policies**.

The following table lists the actions that you can define in identity policy statements for CodeArts Req.

Table 5-1 Actions supported by CodeArts Req

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq::createTenantConfiguration	Grants permission to create tenant configuration.	Write	-	-	-
codeartsreq::listOffering	Grants permission to get offerings.	Read	-	-	-
codeartsreq::updateTenantConfiguration	Grants permission to update tenant configuration.	Write	-	-	projectmanConfig:template:update

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq::setImportedWorkitemCreator	Grants permission to set imported workitem creator.	Write	-	-	projectmanConfig:systemSettingField:set
codeartsreq::deleteTenantConfiguration	Grants permission to delete tenant resource.	Write	-	-	projectmanConfig:template:delete
codeartsreq:workitem:get	Grants permission to get all the project workitem resource.	Read	-	• **codeartsreq:Model** • **codeartsreq:ProjectId**	-
codeartsreq:workitem:list	Grants permission to list all the project workitem resource.	List	-	• **codeartsreq:Model** • **codeartsreq:ProjectId**	-
codeartsreq:workitem:create	Grants permission to create all the project workitem resource.	Write	-	• **codeartsreq:Model** • **codeartsreq:ProjectId**	-
codeartsreq:workitem:update	Grants permission to update all the project workitem resource.	Write	-	• **codeartsreq:Model** • **codeartsreq:ProjectId**	-
codeartsreq:workitem:collaborate	Grants permission to collaborate all the project workitem resource.	Write	-	• **codeartsreq:Model** • **codeartsreq:ProjectId**	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:workitem:delete	Grants permission to delete all the project workitem resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workitem:import	Grants permission to import all the project workitem resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workitem:export	Grants permission to export all the project workitem resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:iteration:get	Grants permission to get all the project iteration resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:iteration:list	Grants permission to list all the project iteration resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:iteration:create	Grants permission to create all the project iteration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:iteration:update	Grants permission to update all the project iteration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:iteration:delete	Grants permission to delete all the project iteration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:iteration:import	Grants permission to import all the project iteration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:iteration:export	Grants permission to export all the project iteration resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:get	Grants permission to get all the project plan resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:list	Grants permission to list all the project plan resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:create	Grants permission to create all the project plan resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:plan:update	Grants permission to update all the project plan resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:delete	Grants permission to delete all the project plan resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:import	Grants permission to import all the project plan resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:export	Grants permission to export all the project plan resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:plan:baseline	Grants permission to baseline all the project plan resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:report:get	Grants permission to get all the project report resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:report:list	Grants permission to list all the project report resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:report:create	Grants permission to create all the project report resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:report:update	Grants permission to update all the project report resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:report:delete	Grants permission to delete all the project report resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:dashboard:get	Grants permission to get all the project dashboard resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:dashboard:list	Grants permission to list all the project dashboard resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:dashboard:create	Grants permission to create all the project dashboard resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:dashboard:update	Grants permission to update all the project dashboard resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:dashboard:delete	Grants permission to delete all the project dashboard resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:recycleBin:get	Grants permission to get all the project recycle bin resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:recycleBin:list	Grants permission to list all the project recycle bin resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:recycleBin:update	Grants permission to update all the project recycle bin resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:recycleBin:delete	Grants permission to delete all the project recycle bin resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:get	Grants permission to get all the project defect resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:list	Grants permission to list all the project defect resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:create	Grants permission to create all the project defect resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:update	Grants permission to update all the project defect resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:defect:delete	Grants permission to delete all the project defect resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:import	Grants permission to import all the project defect resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:export	Grants permission to export all the project defect resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:defect:collaborate	Grants permission to collaborate all the project defect resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:configuration:get	Grants permission to get all the project configuration resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:configuration:list	Grants permission to list all the project configuration resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:configuration:share	Grants permission to share the project configuration resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:configuration:create	Grants permission to create all the project configuration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:configuration:update	Grants permission to update all the project configuration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:configuration:delete	Grants permission to delete all the project configuration resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:feature:get	Grants permission to get all the project feature resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:feature:list	Grants permission to list all the project feature resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:feature:create	Grants permission to create all the project feature resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:feature:update	Grants permission to update all the project feature resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:feature:delete	Grants permission to delete all the project feature resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:feature:import	Grants permission to import all the project feature resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:feature:export	Grants permission to export all the project feature resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:get	Grants permission to get all the project feature set resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:list	Grants permission to list all the project feature set resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:featureSet:create	Grants permission to create all the project feature set resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:baseline	Grants permission to baseline all the project feature set resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:update	Grants permission to update all the project feature set resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:delete	Grants permission to delete all the project feature set resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:import	Grants permission to import all the project feature set resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:export	Grants permission to export all the project feature set resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:developmentRequirement:get	Grants permission to get all the project development requirement resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:developmentRequirement:list	Grants permission to list all the project development requirement resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:developmentRequirement:create	Grants permission to create all the project development requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:developmentRequirement:update	Grants permission to update all the project development requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:developmentRequirement:collaborate	Grants permission to collaborate all the project development requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:developmentRequirement:delete	Grants permission to delete all the project development requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:developmentRequirement:import	Grants permission to import all the project development requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:developmentRequirement:export	Grants permission to export all the project development requirement resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:review:get	Grants permission to get all the project review resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:review:list	Grants permission to list all the project review resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:review:create	Grants permission to create all the project review resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:review:update	Grants permission to update all the project review resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:review:delete	Grants permission to delete all the project review resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:rawRequirement:create	Grants permission to create all the project raw requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:rawRequirement:update	Grants permission to update all the project raw requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:rawRequirement:collaborate	Grants permission to collaborate all the project raw requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:rawRequirement:delete	Grants permission to delete all the project raw requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:rawRequirement:import	Grants permission to import all the project raw requirement resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:rawRequirement:export	Grants permission to export all the project raw requirement resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:task:get	Grants permission to get all the project task resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:task:list	Grants permission to list all the project task resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:task:create	Grants permission to create all the project task resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:task:update	Grants permission to update all the project task resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:task:delete	Grants permission to delete all the project task resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:project:get	Grants permission to get all the project project resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:project:list	Grants permission to list all the project project resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:project:create	Grants permission to create all the project project resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:project:update	Grants permission to update all the project project resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:project:delete	Grants permission to delete all the project project resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:member:get	Grants permission to get all the project member resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:member:list	Grants permission to list all the project member resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:member:create	Grants permission to create all the project member resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:member:update	Grants permission to update all the project member resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:member:delete	Grants permission to delete all the project member resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:custom:get	Grants permission to get all the project custom resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:custom:list	Grants permission to list all the project custom resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:custom:create	Grants permission to create all the project custom resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:custom:update	Grants permission to update all the project custom resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:custom:delete	Grants permission to delete all the project custom resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:tag:get	Grants permission to get all the project tag resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:tag:list	Grants permission to list all the project tag resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:tag:create	Grants permission to create all the project tag resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:tag:update	Grants permission to update all the project tag resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:tag:delete	Grants permission to delete all the project tag resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workhour:get	Grants permission to get all the project workhour resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workhour:list	Grants permission to list all the project workhour resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workhour:create	Grants permission to create all the project workhour resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workhour:update	Grants permission to update all the project workhour resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:workhour:delete	Grants permission to delete all the project workhour resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:attachment:get	Grants permission to get all the project attachment resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:attachment:download	Grants permission to download all the project attachment resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:attachment:list	Grants permission to list all the project attachment resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:attachment:upload	Grants permission to create all the project attachment resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:attachment:delete	Grants permission to delete all the project attachment resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:release:get	Grants permission to get all the project release resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:release:list	Grants permission to list all the project release resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:release:create	Grants permission to create all the project release resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:release:update	Grants permission to update all the project release resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:release:delete	Grants permission to delete all the project release resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:risk:get	Grants permission to get all the project risk resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:risk:list	Grants permission to list all the project risk resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:risk:create	Grants permission to create all the project risk resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:risk:update	Grants permission to update all the project risk resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:risk:delete	Grants permission to delete all the project risk resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workflow:get	Grants permission to get all the project workflow resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workflow:list	Grants permission to list all the project workflow resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workflow:create	Grants permission to create all the project workflow resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workflow:update	Grants permission to update all the project workflow resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:workflow:delete	Grants permission to delete all the project workflow resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workflow:execute	Grants permission to execute all the project workflow resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:automation:get	Grants permission to get all the project automation resource.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:automation:list	Grants permission to list all the project automation resource.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:automation:create	Grants permission to create all the project automation resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:automation:update	Grants permission to update all the project automation resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:automation:delete	Grants permission to delete all the project automation resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:automation:execute	Grants permission to execute all the project automation resource.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:report:export	Grants permission to export report.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::showGuide	Grants permission to show guide.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::listValidModels	Grants permission to list valid models.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:attachment:update	Grants permission to update attachment.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:createBaseline	Grants permission to create baseline.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:featureSet:listBaseline	Grants permission to list baseline.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq:featureSet:getBaseline	Grants permission to get baseline.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::downloadImportAndExportRecord	Grants permission to download export record.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::queryRecordList	Grants permission to list ipd export and import records.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::getUnReachableActivity	Grants permission to validate un-reachable activity.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::showWorkItemFlowRightObjectInfo	Grants permission to show workflow object information.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::saveBehavior	Grants permission to save kanban user behavior.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::updateIssueAccessorySize	Grants permission to update scrum issue accessory size.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::updateJobCache	Grants permission to update scrum job cache.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-

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Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsreq::listScrumJobCache	Grants permission to list scrum job caches.	List	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq::createJobCache	Grants permission to create scrum job caches.	Write	-	• codeartsreq:Model • codeartsreq:ProjectId	-
codeartsreq:workhour:export	Grants permission to export workhour.	Read	-	• codeartsreq:Model • codeartsreq:ProjectId	-

Each API of CodeArts Req usually supports one or more actions. Table 5-2 lists the supported actions and dependencies.

Table 5-2 Actions and dependencies supported by CodeArts Req APIs

API	Action	Dependencies
-	codeartsreq:rawRequirement:update	-
POST /v4/projects/{project_id}/issues/{issue_id}/work-hours	codeartsreq:workhour:create	-
-	codeartsreq:iteration:create	-
-	codeartsreq:member:create	-
-	codeartsreq:project:create	-
-	codeartsreq:developmentRequirement:create	-
-	codeartsreq:workitem:create	-
-	codeartsreq:rawRequirement:create	-

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API	Action	Dependencies
-	codeartsreq:developmentRequirement:create	-
-	codeartsreq:developmentRequirement:delete	-
-	codeartsreq:workitem:delete	-
DELETE /v4/projects/{project_id}/issues	codeartsreq:workitem:delete	-
DELETE /v4/projects/{project_id}/iterations	codeartsreq:iteration:delete	-
DELETE /v1/planservice/projects/{project_id}/plans/batch-delete	codeartsreq:plan:delete	-
-	codeartsreq:project:delete	-
-	codeartsreq:iteration:delete	-
-	codeartsreq:rawRequirement:delete	-
-	codeartsreq:workitem:list	-
PUT /v1/planservice/projects/{project_id}/plans/batch-baseline	codeartsreq:plan:baseline	-
PUT /v4/domain/child-users	codeartsreq:member:update	-
-	codeartsreq:developmentRequirement:update	-
PUT /v2/projects/{project_id}/issues/batch-update	codeartsreq:workitem:update	-
-	codeartsreq:workitem:update	-

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API	Action	Dependencies
DELETE /v4/projects/{project_id}/domains/{domain_id}	codeartsreq:configuration:delete	-
PUT /v1/planservice/projects/{project_id}/plans/{plan_id}/status	codeartsreq:plan:update	-
-	codeartsreq:rawRequirement:update	-
POST /v3/{project_id}/custom-fields	codeartsreq:custom:create	-
POST /v1/ipdprojectservice/projects/{project_id}/review	codeartsreq:review:create	-
-	codeartsreq:featureSet:create	-
POST /v1/ipdprojectservice/projects/{project_id}/modules	codeartsreq:configuration:create	-
POST /v1/ipdprojectservice/projects/{project_id}/process-instances	codeartsreq:workflow:create	-
POST /v1/ipdprojectservice/projects/{project_id}/issues	codeartsreq:workitem:create	-
POST /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/attachments/upload	codeartsreq:attachment:upload	-
-	codeartsreq:tag:create	-

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API	Action	Dependencies
POST /v4/projects/{project_id}/issue	codeartsreq:workitem:create	-
POST /v4/projects/{project_id}/iteration	codeartsreq:iteration:create	-
POST /v1/planservice/projects/{project_id}/plans	codeartsreq:plan:create	-
-	codeartsreq:project:create	-
-	codeartsreq:release:create	-
POST /v4/projects/{project_id}/domain	codeartsreq:configuration:create	-
POST /v4/projects/{project_id}/module	codeartsreq:configuration:create	-
POST /v4/projects/{project_id}/system/issue	codeartsreq:workitem:create	-
POST /v1/ipdprojectservice/projects/{project_id}/work-items/{workitem_id}/work-hour	codeartsreq:workhour:create	-
DELETE /v4/projects/{project_id}/issues/{issue_id}/attachments/{attachment_id}	codeartsreq:attachment:upload	-
DELETE /v1/ipdprojectservice/projects/{project_id}/feature-sets/{feature_set_id}	codeartsreq:featureSet:delete	-

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API	Action	Dependencies
DELETE /v1/ipdprojectservice/projects/{project_id}/review/{review_id}	codeartsreq:review:delete	-
DELETE /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}	codeartsreq:tag:delete	-
-	codeartsreq:configuration:delete	-
DELETE /v1/ipdprojectservice/projects/{project_id}/process-instances/{review_id}	codeartsreq:workflow:delete	-
DELETE /v4/projects/{project_id}/issues/{issue_id}	codeartsreq:workitem:delete	-
DELETE /v4/projects/{project_id}/iterations/{iteration_id}	codeartsreq:iteration:delete	-
-	codeartsreq:project:delete	-
-	codeartsreq:member:delete	-
-	codeartsreq:release:delete	-
DELETE /v4/projects/{project_id}/modules/{module_id}	codeartsreq:configuration:delete	-
DELETE /v1/projects/{project_id}/work-items/{issue_id}/work-hour/{workhour_id}	codeartsreq:workhour:delete	-

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API	Action	Dependencies
GET /v4/projects/{project_id}/issues/{issue_id}/attachments/{attachment_id}	codeartsreq:attachment:download	-
GET /v4/projects/{project_id}/image-file	codeartsreq:attachment:download	-
-	codeartsreq:attachment:download	-
GET /v1/ipdprojectservice/projects/{project_id}/attachments/download/{id}	codeartsreq:attachment:get	-
-	codeartsreq:plan:export	-
-	codeartsreq:plan:export	-
-	codeartsreq:plan:import	-
GET /v4/projects/{project_id}/issues/{issue_id}/associated-issues	codeartsreq:workitem:list	-
GET /v4/projects/{project_id}/issues/{issue_id}/associate-test-cases	codeartsreq:workitem:get	-
GET /v4/projects/{project_id}/issues/{issue_id}/associated-wikis	codeartsreq:attachment:list	-
-	codeartsreq:plan:import	-
GET /v1/ipdprojectservice/projects/{project_id}/review/issues/{issue_id}/approvers	codeartsreq:configuration:get	-
-	codeartsreq:workitem:get	-

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API	Action	Dependencies
GET /v1/ipdprojectservice/projects/{project_id}/fields	codeartsreq:configuration:list	-
POST /v1/ipdprojectservice/projects/{project_id}/issues/query	codeartsreq:workitem:list	-
-	codeartsreq:project:list	-
POST /v1/ipdprojectservice/projects/{project_id}/review/query	codeartsreq:review:list	-
-	codeartsreq:workitem:list	-
-	codeartsreq:developmentRequirement:list	-
GET /v4/projects/{project_id}/issues/{issue_id}/associated-commits	codeartsreq:workitem:get	-
GET /v4/projects/{project_id}/issues/{issue_id}/comments	codeartsreq:workitem:list	-
POST /v4/projects/{project_id}/issues/custom-fields	codeartsreq:custom:list	-
GET /v4/projects/{project_id}/issue/{issue_id}/records	codeartsreq:workitem:list	-
GET /v1/ipdprojectservice/projects/{project_id}/plan/snapshots/issues/{issue_id}	codeartsreq:iteration:list	-
GET /v4/projects/{project_id}/issues	codeartsreq:workitem:list	-

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API	Action	Dependencies
POST /v4/projects/{project_id}/issues	codeartsreq:workitem:list	-
-	codeartsreq:configuration:list	-
-	codeartsreq:release:get	-
-	codeartsreq:plan:list	-
GET /v1/planservice/projects/{project_id}/plans/query	codeartsreq:plan:list	-
GET /v1/planservice/projects/{project_id}/plans/{plan_id}	codeartsreq:plan:get	-
-	codeartsreq:plan:get	-
-	codeartsreq:member:list	-
-	codeartsreq:project:list	-
-	codeartsreq:member:list	-
-	codeartsreq:release:get	-
-	codeartsreq:iteration:list	-
-	codeartsreq:release:list	-
GET /v4/projects/{project_id}/bug-statistic	codeartsreq:defect:list	-
GET /v4/projects/{project_id}/demand-statistic	codeartsreq:developmentRequirement:list	-
GET /v4/projects/{project_id}/domains	codeartsreq:configuration:list	-
GET /v4/projects/{project_id}/issues/records	codeartsreq:workitem:list	-
GET /v4/projects/{project_id}/iterations	codeartsreq:iteration:list	-

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API	Action	Dependencies
GET /v4/projects/{project_id}/modules	codeartsreq:configuration:list	-
GET /v1/ipdprojectservice/projects/{project_id}/users	codeartsreq:member:list	-
POST /v4/projects/work-hours	codeartsreq:workhour:list	-
GET /v4/projects/{project_id}/work-hours-type	codeartsreq:workhour:list	-
-	codeartsreq:developmentRequirement:list	-
GET /v4/projects/{project_id}/statuses	codeartsreq:configuration:list	-
POST /v4/issues/duration	codeartsreq:workitem:get	-
PUT /v1/ipdprojectservice/projects/{project_id}/review/{review_id}	codeartsreq:review:update	-
-	codeartsreq:rawRequirement:update	-
POST /v4/issues	codeartsreq:workitem:list	-
-	codeartsreq:plan:get	-
-	codeartsreq:plan:list	-
GET /v1/ipdprojectservice/projects/{project_id}/feature-set/query	codeartsreq:featureSet:list	-
-	codeartsreq:configuration:list	-
GET /v4/user	codeartsreq:member:get	-
GET /v4/projects/{project_id}/user-role	codeartsreq:project:list	-

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API	Action	Dependencies
GET /v1/ipdprojectservice/projects/{project_id}/issue/get-attached-wikis	codeartsreq:attachment:get	-
GET /v1/ipdprojectservice/projects/{project_id}/attachments	codeartsreq:attachment:list	-
-	codeartsreq:configuration:get	-
GET /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}	codeartsreq:workitem:get	-
GET /v1/ipdprojectservice/projects/{project_id}/process-instances/{review_id}	codeartsreq:workflow:get	-
POST /v1/ipdprojectservice/projects/{project_id}/process-instances/query	codeartsreq:workflow:list	-
GET /v1/ipdprojectservice/projects/{project_id}/review/{review_id}	codeartsreq:review:get	-
-	codeartsreq:member:list	-
-	codeartsreq:tag:get	-
-	codeartsreq:workitem:get	-
GET /v4/projects/{project_id}/issue-completion-rate	codeartsreq:workitem:list	-
-	codeartsreq:workitem:list	-

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API	Action	Dependencies
GET /v4/projects/{project_id}/issues/{issue_id}	codeartsreq:workitem:get	-
GET /v4/projects/{project_id}/issues/workflow/config	codeartsreq:workflow:get	-
GET /v4/iterations/{iteration_id}	codeartsreq:iteration:get	-
-	codeartsreq:configuration:list	-
-	codeartsreq:plan:get	-
-	codeartsreq:project:get	-
-	codeartsreq:release:get	-
GET /v4/projects/{project_id}/summary	codeartsreq:project:get	-
POST /v4/projects/{project_id}/work-hours	codeartsreq:workhour:get	-
-	codeartsreq:developmentRequirement:get	-
GET /v1/ipdprojectservice/projects/{project_id}/snapshots-feature/query	codeartsreq:featureSet:getBaseline	-
GET /v1/ipdprojectservice/projects/{project_id}/snapshots/version	codeartsreq:featureSet:getBaseline	-
-	codeartsreq:dashboard:get	-
POST /v1/ipdprojectservice/projects/tenant/query	codeartsreq:workitem:list	-

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API	Action	Dependencies
GET /v1/ipdprojectservice/projects/{project_id}/work-hour/options	codeartsreq:configuration:get	-
POST /v1/ipdprojectservice/projects/{project_id}/work-hour/query	codeartsreq:workhour:get	-
-	codeartsreq:workitem:list	-
-	codeartsreq:featureSet:update	-
PUT /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}	codeartsreq:tag:update	-
-	codeartsreq:configuration:update	-
PUT /v1/ipdprojectservice/projects/{project_id}/process-instances/{review_id}	codeartsreq:workflow:update	-
PUT /v4/projects/{project_id}/issues/{issue_id}	codeartsreq:workitem:update	-
PUT /v4/projects/{project_id}/iterations/{iteration_id}	codeartsreq:iteration:update	-
PUT /v4/user	codeartsreq:member:update	-
-	codeartsreq:plan:update	-
PUT /v1/planservice/projects/{project_id}/plans/{plan_id}	codeartsreq:plan:update	-
-	codeartsreq:plan:update	-

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API	Action	Dependencies
-	codeartsreq:project:update	-
-	codeartsreq:member:update	-
-	codeartsreq:release:update	-
PUT /v4/projects/{project_id}/domains/{domain_id}	codeartsreq:configuration:update	-
PUT /v4/projects/{project_id}/modules/{module_id}	codeartsreq:configuration:update	-
-	codeartsreq:developmentRequirement:update	-
-	codeartsreq:configuration:update	-
PUT /v1/projects/{project_id}/work-items/{issue_id}/work-hour/{workhour_id}	codeartsreq:workhour:update	-
POST /v4/projects/{project_id}/issues/{issue_id}/attachments/upload	codeartsreq:attachment:upload	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:workitem:create	-
-	codeartsreq:workitem:delete	-
-	codeartsreq:configuration:update	-
-	codeartsreq:workitem:update	-
-	codeartsreq:configuration:list	-

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API	Action	Dependencies
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workitem:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workitem:get	-
-	codeartsreq:configuration:create	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workitem:list	-
-	codeartsreq:workitem:list	-
-	codeartsreq:configuration:create	-
-	codeartsreq:configuration:create	-
-	codeartsreq:workitem:update	-
-	codeartsreq:configuration:delete	-
-	codeartsreq:workitem:update	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workitem:list	-
-	codeartsreq:configuration:list	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:list	-
-	codeartsreq:configuration:get	-

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API	Action	Dependencies
-	codeartsreq:configuration:list	-
-	codeartsreq:workitem:list	-
-	codeartsreq:workitem:get	-
-	codeartsreq:project:get	-
-	codeartsreq:configuration:list	-
-	codeartsreq:configuration:get	-
-	codeartsreq:project:list	-
-	codeartsreq:configuration:list	-
-	codeartsreq:configuration:list	-
-	codeartsreq:configuration:get	-
-	codeartsreq:project:get	-
-	codeartsreq:project:get	-
-	codeartsreq:configuration:list	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-

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API	Action	Dependencies
-	codeartsreq:configuration:create	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workitem:get	-
-	codeartsreq:workitem:get	-
-	codeartsreq:workitem:list	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workitem:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:workflow:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:get	-
-	codeartsreq:configuration:update	-
-	codeartsreq:configuration:update	-
-	codeartsreq:workitem:update	-
-	codeartsreq:workitem:update	-
-	codeartsreq:configuration:update	-

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API	Action	Dependencies
PUT /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}/associated-item	codeartsreq:attachment:list	-
-	codeartsreq:plan:delete	-
PUT /v1/ipdprojectservice/projects/{project_id}/issues/batch	codeartsreq:workitem:update	-
-	codeartsreq:plan:baseline	-
-	codeartsreq:plan:create	-
-	codeartsreq:plan:export	-
GET /v1/ipdprojectservice/projects/{project_id}/model-config	codeartsreq:configuration:get	-
-	codeartsreq:plan:import	-
POST /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}/associated-item	codeartsreq:workitem:get	-
GET /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/history	codeartsreq:workitem:get	-
-	codeartsreq:review:get	-
-	codeartsreq:configuration:list	-
-	codeartsreq:plan:update	-

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Resources

CodeArts Req does not support resource-level authorization. To allow access to CodeArts Req, use a wildcard (*) in the Resource element of the identity policy, indicating that the identity policy will be applied to all resources.

Conditions

Condition Key Overview

A Condition element lets you specify conditions for when an identity policy is in effect. It contains **condition keys** and **operators**.

- The condition key that you specify can be a global condition key or a service-specific condition key.
  - Global condition keys (with the g: prefix) apply to all actions. Cloud services do not need to provide user identity information. Instead, the system automatically obtains such information and authenticates users. For details, see **Global Condition Keys**.
  - Service-specific condition keys (with the abbreviation of a service name plus a colon as the prefix, for example, codearts req) apply only to operations of the xx service. For details, see **Table 5-3**.
  - The number of values associated with a condition key in the request context of an API call makes the condition key single-valued or multivalued. Single-valued condition keys have at most one value in the request context of an API call. Multivalued condition keys can have multiple values in the request context of an API call. For example, a request can originate from at most one VPC endpoint, so g:SourceVpce is a single-valued condition key. You can tag resources and include multiple tag key-value pairs in a request, so g:TagKeys is a multivalued condition key.
- A condition operator, condition key, and a condition value together constitute a complete condition statement. An identity policy can be applied only when its request conditions are met. For supported condition operators, see **operators**.

Service-specific condition keys supported by CodeArts Req

The following table lists the condition keys that you can define in identity policies for CodeArts Req. You can include these condition keys to specify conditions for when your identity policy is in effect.

Table 5-3 Service-specific condition keys supported by CodeArts Req

Service-specific Condition Key	Type	Single-valued/ Multivalued	Description
codeartsreq:Model	string	Single-valued	Filters access based on CodeArtsReq model.

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Service-specific Condition Key	Type	Single-valued/ Multivalued	Description
codeartsreq:ProjectId	string	Single-valued	Filters access based on CodeArts project id.

6 Application Examples

6.1 Example 1: Obtaining the Project List in CodeArts Req

Scenario

This section uses the **test001** user as an example to describe how to use an API to query the project list of the current user.

For details about how to call APIs, see **Calling APIs**.

Constraints

Ensure that the **test001** user has created or participated in a project in CodeArts Req.

Involved API

Query project information of the current user based on the user token.

URI: GET **/v4/projects**

For details about the API document, see "Querying the Project List".

For details about online API Explorer debugging, see "Querying the Project List."

Procedure

- Request example

```
GET https://excample.com/v4/projects?
project_type=scrum&search=ProjectTestCase&offset=0&limit=1
```

- Response example

```
{
"projects": [
      {
"project_num_id": 3844012,
"project_id": "ec147b681fb64e019a6bcd73ebdf3597",
"project_name": "ProjectTestCaseYRXl",
"description": "fdas",
```

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```
"created_time": 1600417972000,
"updated_time": 1600417972000,
"project_type": "scrum",
"creator": {
"user_num_id": 4090,
"user_id": "665b542eb4c14b53a15ead449f28b0ba",
"user_name": "test001",
"domain_id": "70d11a2d7275425689347ec104af2ad8",
"domain_name": "projectman_l00382124_01",
"nick_name": "Jim"
            }
        }
    ],
"total": 48
}
```


6.2 Example 2: Querying The Sprint List of a Specified Project

Scenario

This section uses the **test001** user as an example to describe how to use an API to query the sprint list of a specified project.

For details about how to call APIs, see **Calling APIs**.

Constraints

Ensure that the **test001** user has created a project in CodeArts Req.

Involved API

Query the sprint list of a specified project of the current user based on the user token.

URI: GET **/v4/projects/{project_id}/iterations**

For details about the API document, see "Obtaining the Sprint List of a Specified Project."

For details about online API Explorer debugging, see "Obtaining the Sprint List of a Specified Project."

Procedure

- Request example
  GET https://excample.com/**v4/projects/**3cea7d4d77134eee8251825918a8bd7a**/iterations**
- Response example


```
{
 "iterations": [
  {
   "id": 707961817,
   "name": "Sprint 1",
   "description": "",
   "begin_time": "2020/06/07",
   "end_time": "2020/07/06"
  },
  {
```


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```
  "id": 707961818,
  "name": "Sprint 2",
  "description": "",
  "begin_time": "2020/07/07",
  "end_time": "2020/08/06"
 },
 {
  "id": 707961819,
  "name": "Sprint 3",
  "description": "",
  "begin_time": "2020/08/07",
  "end_time": "2020/09/06"
 }
],
"total": 3
}
```


6.3 Example 3: Querying Comments on Work Items of a User

Scenario

The **test001** user has created or participated in a project in CodeArts Req. The project contains created work items.

For details about how to call APIs, see **Calling APIs**.

Constraints

Work items exist.

Involved API

Query the work item list of a specified project based on the user token, and then query work item comments based on the project ID and work item ID. The procedure is as follows:

1. **Step 1: Query the work item list of the user**
2. **Step 2: Query comments on work items**

Step 1: Query the work item list of the user

- API information

  URI: Post **/v4/projects/{project_id}/issues**

  For details about the API document, see "Using Advanced Query to Find Work Items."

  For details about online API Explorer debugging, see "Advanced Query to Find Work Items."

- Request example

  ```
  Post https://excample.com/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
  ```

- Request body

  ```
  {
  "status_ids": [1],
  "limit":1
  }
  ```

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- Response example


```
{
"issues": [
      {
"id": 1692040,
"name":"Test",
"done_ratio": 0,
"tracker": {
"id": 2,
"name": "Task"
          },
"priority": {
"id": 2,
"name": "Medium"
          },
"severity": {
"id": 12,
"name": "Minor"
          },
"status": {
"id": 1,
"name": "New"
          },
"updated_time": "2020-09-17 10:18:31",
"begin_time": "1970-01-01",
"end_time": "1970-01-01",
"project": {
"project_num_id": 3694732,
"project_id": "526cefde62004de2b62b5e8dd2c2b3af",
"project_name": "sdfsdfdsf"
          },
"parent_issue": {
"id": 1684959,
"name": "testDemo John Doe"
          },
"module": {
"id": null,
"name": null
          },
"domain": {
"id": null,
"name": null
          },
"iteration": {
"id": null,
"name": null
          },
"expected_work_hours": 0.0,
"actual_work_hours": 0.0,
"created_time": "2020-09-17 10:18:31",
"custom_fields": [],
"assigned_cc_user": null,
"assigned_user": {
"id": 4091,
"name": "test001",
"nick_name": "pcedgeXXXXXXX"
          },
"creator": {
"id": 4091,
"name": "test001",
"nick_name": "pcedgeXXXXXXX"
          },
"developer": {
"id": 0,
"name": null,
"nick_name": null
          }
      }
  ],
```


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```
"total": 24
}
```

Step 2: Query comments on work items

- API information

  URI: GET **/v4/projects/{project_id}/issues/{issue_id}/comments**

  For details about the API document, see "Obtaining the Comment List of a Specified Work Item."

  For details about online API Explorer debugging, see "Obtaining the Comment List of a Specified Work Item."

- Request example

  GET https://excample.com**/v4/projects/**526cefde62004de2b62b5e8dd2c2b3af**/issues/**1692040**/comments**

- Response example

```
{
   "comments": [
      {
         "id": 3235092,
         "created_time": "2020-08-26",
         "user": {
            "user_num_id": 4091,
            "user_name": "test001",
            "nick_name": "pcedgeXXXXXXX"
         },
         "comment": "<p>This is a test example.</p>"
      }
   ],
   "total": 1
}
```

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7 Appendix

7.1 Status Codes

Table 7-1 describes status codes.

Table 7-1 Status codes

Status Code	Message	Description
100	Continue	The client continues sending the request. This temporary response is used to inform the client that some requests have been received and not rejected by the server.
101	Switching Protocols	Switch protocols. A protocol can only be switched to a more advanced one. For example, the current HTTP protocol is switched to a later version.
201	Created	The request has been fulfilled and resulted in a new resource being created.
202	Accepted	The request has been accepted, but has not finished being processed yet.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	NoContent	The request has been successfully implemented, but the HTTP response does not contain a response body. This status code is returned in response to an HTTP **OPTIONS** request.

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Status Code	Message	Description
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	The response contains a list of resource characteristics and addresses from which a user terminal (such as a browser) can choose the most appropriate one.
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource was temporarily moved.
303	See Other	The response to the request can be found under a different URI. The response to the request should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. In such case, there is no need to retransmit the resource since the client still has a previously downloaded copy.
305	Use Proxy	The requested resource must be accessed through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The authorization information provided by the client is incorrect or invalid.
402	Payment Required	Reserved request.
403	Forbidden	Request rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.

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Status Code	Message	Description
405	MethodNotAllowed	A request method is not supported for the requested resource. The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server could not fulfil the request according to the content characteristics of the request.
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The client does not produce a request within the time that the server was prepared to wait. The client may re-initiate the request without modifications at any time later.
409	Conflict	The request cannot be processed due to a conflict. The resource that the client attempts to create already exists, or the update request fails to be processed due to a conflict.
410	Gone	The requested resource cannot be found. This status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refuses to process the request without a defined **Content-Length**.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request is too large. The server may disable the connection to prevent the client from sending requests consecutively. If the server temporarily cannot process the request, the response will contain a **Retry-After** header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server does not support the media type in the request.
416	Requested range not satisfiable	The requested range is invalid.

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Status Code	Message	Description
417	Expectation Failed	The server fails to meet the requirements of the **Expect** request header field.
422	UnprocessableEntity	The request is well-formed but is unable to respond due to semantic errors.
429	TooManyRequests	The client sends too many requests to the server within a given time, exceeding the client's access frequency limit or beyond the server's processing capability. In this case, the client should retry after the time period specified in the **Retry-After** response header.
500	InternalServerError	The server is able to receive the request but it cannot understand the request.
501	Not Implemented	The server does not support the requested function.
502	Bad Gateway	The server is acting as a gateway or proxy and receives an invalid request from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The server could not return a timely response. This status code is returned to the client only when the **Timeout** parameter is specified in the request.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

7.2 Error Codes

If an error occurs in API calling, no result will be returned. You can identify the error cause based on the error codes of each API.

If an error occurs in API calling (for example, HTTP status code **400** or **505** is returned), the response body contains the specific error code and information.

If you cannot locate the cause of an error, contact customer service and provide the error code, so that we can help you solve the problem as soon as possible.

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Error Response Body Format

If an error occurs during API calling, an error code and the corresponding error message will be displayed. The following shows an error response body:

```
{
   "error_msg": "The format of message is error",
   "error_code": "AS.0001"
}
```

In the response body, **error_code** is an error code, and **error_msg** describes the error.

Error Code Description

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in **API Gateway Error Codes**.

Table 7-2 Error codes

Status Code	Error Code	Error Message	Description	Solution
400	PM.02150010	The target user is not a member of the project.	The target user is not a member of the project.	Add the target user to the project.
400	PM.02150301	Deletion failed.	Deletion failed.	Change the user role to another one before deleting the user.
400	PM.02150302	The permissions cannot be changed.	The permissions cannot be changed.	Do not change the permissions.
400	PM.02150303	The role does not exist.	The role does not exist.	Verify request parameters.
400	PM.02150304	The role name is unavailable. Set a new name.	The role name is unavailable. Set a new name.	Set a new name.
400	PM.02150305	The role name conflicts with another one.	The role name conflicts with another one.	Set a new name.
400	PM.02150404	The project space does not exist.	The project space does not exist.	Check the project space.
400	PM.02151001	The program does not exist.	The program does not exist.	Check the program.
400	PM.02152001	Invalid parameter.	Invalid parameter.	Correct the parameter.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02152002	Undefined error.	Undefined error.	Correct the error.
400	PM.02152003	Invalid argument name.	Invalid argument name.	Correct the argument name.
400	PM.02152004	The program is not archived.	The program is not archived.	Archive the program.
400	PM.02152005	Project does not exist or has been deleted.	Project does not exist or has been deleted.	Check the project information.
400	PM.02152006	The program has not been followed.	The program has not been followed.	Follow the program first.
400	PM.02152007	The program has been followed.	The program has been followed.	No need to follow the program again.
400	PM.02152008	Invalid users are listed in the parameters for modifying the permissions to create programs.	Invalid users are listed in the parameters for modifying the permissions to create programs.	Remove the invalid users listed in the parameters for modifying the permissions to create programs.
400	PM.02152009	The program has been archived.	The program has been archived.	No need to archive the program again.
400	PM.02152010	The project type is not allowed.	The project type is not allowed.	Use a correct project type.
400	PM.02152011	The project has been associated.	The project has been associated.	No need to associate the project again.
400	PM.02153001	Too frequent access. Try again later.	Too frequent access. Try again later.	Try again later.
400	PM.02175006	Invalid Parameter: {0}.	Invalid parameter.	Retry with a correct request parameter.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02175101	Number of subnodes exceeds {0}.	The number of subnodes cannot exceed the upper limit.	Create subnodes only after deleting other subnodes, or under other nodes.
400	PM.02175103	Only accepted initial requirement can be edited.	The current initial requirement (IR) cannot be modified. (An IR can only be modified when its proposing project is the same as the responsible project, or it is accepted in the responsible project. This error may occur when an IR is being modified or a child requirement is being created under its parent requirement.)	Confirm the IR status and try again.
400	PM.02175104	Some of the initial requirements cannot be edited.	Some IRs cannot be modified (usually because some requested IRs do not exist).	Confirm all the modified IRs and try again.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02175105	Invalid parent IR.	The parent IR is invalid. (This error occurs because the parent IR of child IR that are created in batches are inconsistent, the responsible project of the parent IR is not the same as the proposing project of the child IR, or the assigned parent IR type is incorrect.)	Retry with a correct request parameter.
400	PM.02175106	Cannot create sub ir to current project.	The proposing project of the child IR cannot be the same as its responsible project.	Submit the child IR to other projects.
400	PM.02175111	Child IRs exist, cannot delete.	The parent IR with child IRs cannot be deleted.	Delete all child IRs and then delete the parent IR.
400	PM.02175113	Parent IR not exists.	The parent IR does not exist.	Create child IRs under a correct parent IR.
400	PM.02175114	Parent IR not designated in the current project, please perform in the responsible project of this IR.	The parent IR does not belong to the current project.	Perform the operation in the responsible project of the parent IR.
400	PM.02175115	Missing edit permission of sub items.	The IR cannot be deleted because you do not have the editing permission for the project to which child work items belong.	Apply for the edit permission for the project to which child work items belong and try again.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02175200	Missing required field {0}.	Mandatory fields are missing.	Add mandatory fields and try again.
400	PM.02175201	Field {0} has invalid value {1}.	The IR field value is invalid. (This error usually occurs due to incorrect format, such as a non-timestamp string for the time or date field.)	Send a request with a correct value.
400	PM.02175202	Plan start date cannot be later than plan due date.	The estimated start date cannot be later than the estimated due date.	Use correct parameters for estimated start date and due date.
400	PM.10001002	Invalid token.	Invalid token.	Use a valid token.
400	PM.10002006	The name of the current tenant has been used.	The name of the current tenant has been used.	Use another tenant name.
400	PM.10002010	The description cannot exceed 500 characters.	The description cannot exceed 500 characters.	Enter a description of no more than 500 characters.
400	PM.10002011	Invalid name.	Invalid name.	Use a valid name.
400	PM.10003002	The current user has insufficient permissions.	The current user has insufficient permissions.	Assign the current user corresponding permissions.
400	PM.10003003	Invitation expired.	Invitation expired.	Re-obtain an invitation.
400	PM.10003004	The review information does not exist.	The review information does not exist.	Check the review information.
400	PM.10003005	The label is in use.	The label is in use.	Check the label status.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.10003006	A maximum of 100 members can be added.	A maximum of 100 members can be added.	Add no more than 100 members.
400	PM.10003007	A maximum of 100 projects can be added.	A maximum of 100 projects can be added.	Add no more than 100 projects.
400	PM.10003008	The role is not allowed.	The role is not allowed.	Use a correct role.
400	PM.10003009	The creator can exit a project after handing over the project.	The creator can exit a project after handing over the project.	The creator can exit a project after handing over the project.
400	PM.10003010	The member does not exist.	The member does not exist.	Check the member.
400	PM.10003011	The total number of projects under a tenant cannot exceed 100.	The total number of projects under a tenant cannot exceed 100.	Limit to no more than 100 projects under a tenant.
400	PM.10003014	The invitation does not exist.	The invitation does not exist.	Re-obtain an invitation.
400	PM.10003015	Only users of the same tenant can be added.	Only users of the same tenant can be added.	Add users of the same tenant.
400	PM.10003016	Adding a member failed.	Adding a member failed.	Re-add the member.
401	PM.02150401	The user does not have sufficient operation permissions.	The user does not have sufficient operation permissions.	Assign the user corresponding permissions.
403	PM.10003012	The user is a member of the project and does not need to apply for the permission.	The user is a member of the project and does not need to apply for the permission.	No need to apply for the permission.

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Status Code	Error Code	Error Message	Description	Solution
404	PM.02175005	Requested resource not exist.	The requested resource does not exist.	Confirm the requested resources. (The ID may be incorrect or the resource has been deleted.)
405	PM.10003013	An application for joining the project already exists and is waiting for approval.	An application for joining the project already exists and is waiting for approval.	Wait for approval.

7.3 Obtaining a Project ID

7.3.1 Obtaining a CodeArts Project ID

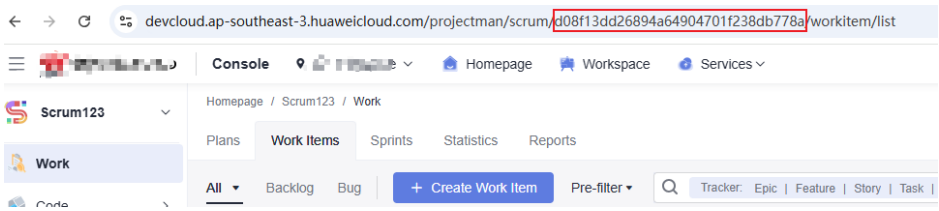
Obtaining a Project ID from the URL

Step 1 **Log in to the Huawei Cloud console** with your Huawei Cloud account.

Step 2 Click ☰ in the upper left corner and choose **Developer Services** > **CodeArts Req** from the service list.

Step 3 Click Access Service in the upper right corner of the page.

Step 4 Access the CodeArts Req page of the specified project. As shown in the following figure, the content in the red box indicates the CodeArts project ID.



----End

7.3.2 Obtaining an IAM Project ID

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to **query project information**.

The API for obtaining a project ID is **GET https://*{Endpoint}*/v3/projects/**. ***{Endpoint}*** indicates the endpoint of IAM, which can be obtained from **Endpoints**. For details about API authentication, see **Authentication**.

In the following example, **id** indicates the project ID.

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "example",

            "description": "",
            "links": {
                "next": null,
                "previous": null,
                "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
            },
            "id": "a4a5d4098fb4474fa22cd05f897d6b99",
            "enabled": true
        }
    ],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```

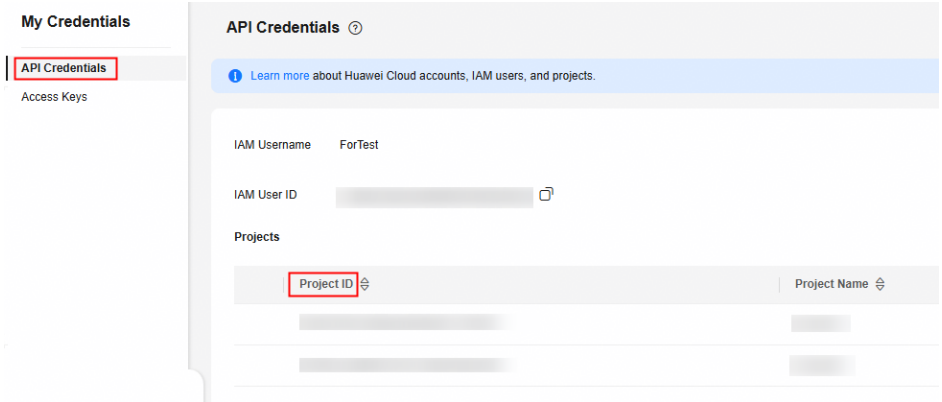
Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

   Choose **My Credentials** > **API Credentials** to view the project ID in the project list.

   If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.



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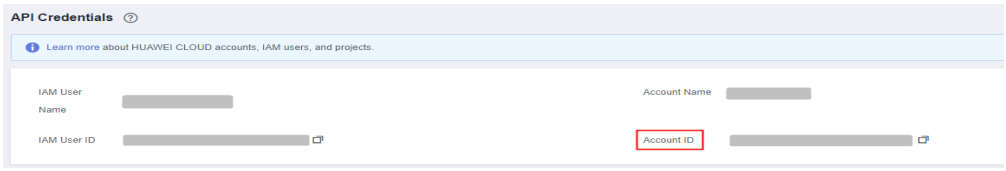
7.4 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

   Choose **My Credentials** > **API Credentials** to view the account ID.

Figure 7-1 Obtaining an account ID



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8 Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Description	Release On
This issue is the second official release. It incorporates the following change: Modified the content in **Before You Start**.	March 2, 2023
This issue is the first official release.	September 30, 2022

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