

CodeArts Req

API Reference

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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

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](#).

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.

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}*

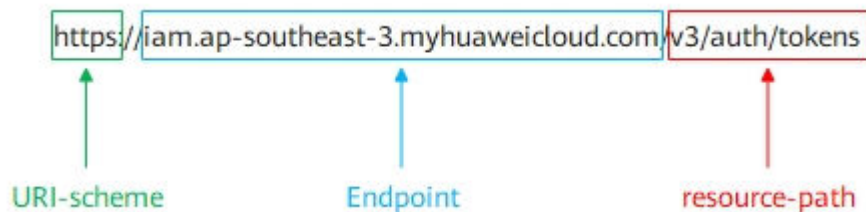
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Endpoints . For example, the endpoint of IAM in the AP-Singapore 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

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.

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": {  
    "project": {  
      "name": "xxxxxxx"  
    }  
  }  
}
```

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": "xxxxxxx"  
    }  
  }  
}
```

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:

```
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.

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

```
connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

strict-transport-security → max-age=31536000; includeSubdomains;

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5

x-subject-token
→ MIIYXQYJKoZIhvcNAQcColIYTjCCGEoCAQExDTALBgIghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMC
fj3KJs6YgKnPvNRbW2eZ5eb78SZOkajACgklqO1wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaY0NYejcAgz/VeFYtLWT1GSO0zxKZmlQHq82HBqHdgIZO9fuEebL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSE87bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUUVhVpxk8pxiX1wTEboX-
RzT6MUUpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;
```

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.

4 API

4.1 Field Management

4.1.1 Obtains the role of the current user.

Function

Obtaining the Role of a User in a Project

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/user-role

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value 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 the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-3 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**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

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

Example Requests

Get https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/user-role

Example Responses

Status code: 200

OK

```
{  
  "user_role" : 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 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
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are 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)

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](#).

4.1.2 Updating a User Nickname

Function

Updating a User Nickname

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v4/user

Request Parameters

Table 4-6 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-7 Request body parameters

Parameter	Mandatory	Type	Description
nick_name	Yes	String	Definition: User alias, which is the value of nick_name in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-8 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 4-9 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

```
PUT https://{endpoint}/v4/user
{
  "nick_name" : "Tom"
}
```

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 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.getStatusCode());
    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 = 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
    }

    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

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.3 Obtains the current user information.

Function

Obtains the current user information.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/user

Request Parameters

Table 4-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-11 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. Constraints: Regular expression: [a-zA-Z0-9]{32} Options: 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

Parameter	Type	Description
user_id	String	Definition: User ID. Constraints: Regular expression: [a-zA-Z0-9]{32} Options: N/A
user_name	String	Definition: Username. Options: N/A
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 4-12** 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 4-13 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/user

Example Responses

Status code: 200

OK

```
{
  "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)
    .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.getStatusCode());
    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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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"
    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

Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.4 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](#).

URI

PUT /v4/domain/child-users

Request Parameters

Table 4-14 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-15 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of UpdateChildUserNickNameRequestBody objects	Definition: List of modified users. Constraints: N/A

Table 4-16 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, which can be obtained from the API for obtaining the member user list of a specified project. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-17 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 4-18** 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

```
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.

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
```

```
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
    }
}
```

```
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](#).

4.2 Project members

4.2.1 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](#).

URI

POST /v4/projects/{project_id}/member

Table 4-19 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-20 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-21 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: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
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
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

Parameter	Mandatory	Type	Description
user_id	Yes	String	Definition: 32-character UUID of a user. 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: Regular expression: [0-9a-z]{32} Value range: N/A Default value: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-22 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 4-23 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/member
{
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "role_id" : 5,
  "user_id" : "665b542eb4c14b53a15ead449f28b0ba"
}
```

Example Responses

Status code: 204

No Content

```
{
  "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.getStatusCode());
    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 = 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 {  
        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](#).

4.2.2 Obtaining the Member List of a Specified Project

Function

This API is used to obtain project members.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/members

Table 4-24 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-25 Query Parameters

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Definition: Number of records displayed on each page. Constraints: N/A Options: Minimum value: 1 . Maximum value: 1,000 . Default value: 10
offset	Yes	Integer	Definition: Pagination index. The offset is an integer multiple of limit . Constraints: Minimum value: 0 . Value range: Minimum value: 0 . Maximum value: 10,000 . Default value: 0

Request Parameters

None

Response Parameters

Status code: 200

Table 4-26 Response body parameters

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

Table 4-27 members

Parameter	Type	Description
domain_id	String	Definition: Tenant ID. Options: N/A
domain_name	String	Definition: Tenant name. Options: N/A
user_id	String	Definition: User ID. Unique ID of a user in the system. Options: N/A
user_name	String	Definition: Username. Options: N/A

Parameter	Type	Description
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
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 4-28** 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

Example Requests

Obtaining the project member list

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

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

Example Responses

Status code: 200

OK

```
{
  "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
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.3 Adding Project Members in Batches

Function

This API is used to add project members in batches. Only members of the same tenant as the project creator can be added. IDs of invalid users will be skipped. If an added user has excessive permissions, they will be assigned the default role 7.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v4/projects/{project_id}/members

Table 4-30 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-31 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of BatchAddMemberRequest V4 objects	Definition: Added user information. Constraints: N/A

Table 4-32 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: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Response Parameters

Status code: 204
No Content
Status code: 400

Table 4-33 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 4-34** 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/members
{
  "users": [ {
    "role_id": 5,
    "user_id": "665b542eb4c14b53a15ead449f28b0ba"
  } ]
}
```

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.getStatusCode());
            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 = 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")
    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

Error Codes

See [Error Codes](#).

4.2.4 Deleting Project Members in Batches

Function

This API is used to delete project members in batches.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v4/projects/{project_id}/members

Table 4-35 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-36 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: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-37 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 4-38 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

Deleting project members in batches

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members
{
  "user_ids": [ "uQUeRCFv7vWiq01uWTjgMGxtKiBLLOXO", "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;
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("uQUErCFv7vWiq01uWTjgMGxtKiBLLOXO");
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.getErrMsg());
}
}
```

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)

    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)  
  
    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](#).

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

Function

AGC calls the current user to apply for joining in the project. The applied user ID is written in the header.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 4-39 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-40 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: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-41 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 4-42** 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/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;
```

```
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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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)
    }
}
```

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](#).

4.2.6 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](#).

URI

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

Table 4-43 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-44 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-45 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: Regular expression: [a-zA-Z0-9]{32} Value range: N/A Default value: N/A

Response Parameters

Status code: 204

ok

Status code: 400

Table 4-46 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 4-47** 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/e2da96a5d2c845e284f0ad47f8ca8cb1/members/role
{
  "role_id" : 7,
  "user_ids" : [ "08777d423500d4b01fe5c008d04336ab" ]
}
```

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 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

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
    }

    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](#).

4.2.7 Quitting a Project

Function

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

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v4/projects/{project_id}/quit

Table 4-48 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 204

OK

Status code: 400

Table 4-49 Response body parameters

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

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

Status code: 401**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

Example Requests

Delete https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/quit

DELETE {{url}}/v4/projects/ac069b11a3524163ad6348953e2fe93e/quit

Note: The API has neither a response body nor a return value.

Example Responses

None

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3 Project Information

4.3.1 Querying the Project List

Function

This API is used to query the project list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects

Table 4-51 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Pagination index. The offset is an integer multiple of limit . Constraints: Minimum value: 0 . Value range: Minimum value: 0 . Maximum value: 10,000 . Default value: 0
limit	Yes	Integer	Definition: Number of records displayed on each page. Constraints: N/A Options: Minimum value: 1 . Maximum value: 1,000 . Default value: 10

Parameter	Mandatory	Type	Description
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
project_type	No	String	Definition: Project type. Constraints: N/A Value range: scrum: Scrum project normal: normal project xboard: Kanban project Default value: N/A
sort	No	String	Definition: Sorting criteria. Constraints: Regular expression: ((name author_name created_on memcount)(: %3A %253A)(asc desc ASC DESC)(,)?){0,4} Options: ((name author_name created_on memcount)(: %3A %253A)(asc desc ASC DESC)(,)?){0,4}. Default value: desc

Parameter	Mandatory	Type	Description
archive	No	String	Definition: Archived or not. Constraints: Regular expression: false true Options: true (not archived and currently in use) false (already archived and cannot be used) Default value: N/A
query_type	No	String	Definition: By default, the projects that the current user participates in are returned. Constraints: Regular expression: absent domain_projects Value range: domain_projects (all projects of a tenant) absent (projects that the current user does not participate in) Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-52 Response body parameters

Parameter	Type	Description
projects	Array of projects objects	Definition: Project information.

Parameter	Type	Description
total	Integer	Definition: Total number of projects. Options: Minimum value: 0 . Maximum value: 10,000 .

Table 4-53 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. Options: 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
updated_time	Long	Definition: Project update time. Options: N/A

Parameter	Type	Description
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 4-54 creator

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

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

Status code: 400**Table 4-55** 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 4-56** 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

Status code: 403

Table 4-57 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

Response body parameters

```
{  
  "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  
}
```

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.getStatusCode());
            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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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)
    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](#).

4.3.2 Checking Whether the Project Name Exists

Function

This API is used to check whether the project name exists.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v4/projects/check-name

Request Parameters

Table 4-58 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 4-59 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 4-60 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 4-61 Response body parameters

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

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

Example Requests

```
Post https://{endpoint}/v4/projects/check-name
{
  "project_name" : "testDemo"
}
```

Example Responses

Status code: 200

OK

```
{
  "exist" : 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 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
    # 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{}
    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](#).

4.3.3 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](#).

URI

GET /v4/projects/domain/not-added

Table 4-62 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the paging index and offset. offset is an integer multiple of limit. limit=10,offset=0,10,20...
limit	No	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed on each page.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-63 Response body parameters

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

Table 4-64 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
updated_time	Long	Indicates the time when the project is updated.

Table 4-65 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 4-66 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 4-67** 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/domain/not-added
```

Example Responses

Status code: 200

OK

```
{
  "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;

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.getStatusCode());
            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 = 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)
}
```

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](#).

4.3.4 This API is used to obtain project details.

Function

This API is used to obtain project details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}

Table 4-68 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-69 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-70 Response body parameters

Parameter	Type	Description
project	project object	Definition: Project information.

Table 4-71 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. Options: 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

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. Options: N/A
project_code	String	Definition: Project code. Options: N/A
creator	creator object	Definition: Creator information.

Table 4-72 creator

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

Parameter	Type	Description
user_id	String	Definition: Creator UUID. Options: 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 4-73** 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

Status code: 401**Table 4-74** Response body parameters

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

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

Example Requests

Get <https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a>

Example Responses

Status code: 200

OK

```
{
  "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.*;
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.getStatusCode());
    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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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()
        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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3.5 Updating a Project

Function

This API is used to update a project.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v4/projects/{project_id}

Table 4-75 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-76 Request body parameters

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

Response Parameters

Status code: 204

No Content

Status code: 400

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

Status code: 401

Table 4-78 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

```
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.

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  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are 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
}

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](#).

4.3.6 Deleting a Project

Function

This API is used to delete a project.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v4/projects/{project_id}

Table 4-79 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-80 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-81 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 4-82 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

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

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 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
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are 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)  
  
    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](#).

4.3.7 Querying a Project Template

Function

This API is used to query a project template.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/templates

Table 4-83 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-84 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

Request Parameters

Table 4-85 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-86 Response body parameters

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

Table 4-87 templates

Parameter	Type	Description
id	Integer	Definition: Template ID. Options: N/A
project_id	Integer	Definition: Project ID. Options: N/A
tracker_id	Integer	Definition: Work item type ID. Options: 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 4-88 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 4-89** 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/fcd58d40cc4d46baaea02f2e6e75ee1f/templates?tracker_id=2

Example Responses**Status code: 200**

OK

```
{
  "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.*;

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.getErrMsg());
        }
    }
}
```

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)
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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3.8 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](#).

URI

POST /v2/project/templates

Request Parameters

Table 4-90 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-91 Request body parameters

Parameter	Mandatory	Type	Description
projectUuid	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: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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 Options: 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

Table 4-92 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: Regular expression: [\s\S]{1,1000} Options: N/A Default value: N/A
position	No	Integer	Definition: Field priority. Constraints: Regular expression: [0-9]{1,10} Options: N/A Default value: N/A

Response Parameters

Status code: 200

The API is successfully responded.

None

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>&nbsp;</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
  }, {
    "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",
  "position" : 19
}, {
  "field" : "custom_field18",
  "is_required" : 0,
  "default_value" : "",
  "position" : 20
} ]
}
```

Example Responses

Status code: 200

The API is successfully responded.

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

Status Codes

Status Code	Description
200	The API is successfully responded.

Error Codes

See [Error Codes](#).

4.3.9 Querying a Work Template (V2)

Function

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

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/project-template/template

Table 4-93 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

Request Parameters

Table 4-94 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

Table 4-95 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 4-96 result

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

Table 4-97 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

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

Table 4-98 creator

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

Table 4-99 source_project

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

Table 4-100 project_list

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

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 4-101 children

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

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

Response to a successful request for querying a work item settings template.

```
{
  "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",
  "description" : "",
  "authorId" : 4091,
  "count" : 0
}
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.4 Project Indicators

4.4.1 Querying Per Capita Bugs

Function

This API is used to query average bugs per user.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 4-102 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-103 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

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 4-104 dividend

Parameter	Mandatory	Type	Description
custom_field1 6	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

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

Parameter	Mandatory	Type	Description
custom_field2 1	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 2	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 3	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 4	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

Parameter	Mandatory	Type	Description
custom_field2 5	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 6	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 7	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 8	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

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

Parameter	Mandatory	Type	Description
custom_field3 3	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 4	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 5	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 6	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

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

Table 4-105 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

Parameter	Mandatory	Type	Description
custom_field2 0	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 1	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 2	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 3	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

Parameter	Mandatory	Type	Description
custom_field2 4	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 5	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 6	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field2 7	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

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

Parameter	Mandatory	Type	Description
custom_field3 2	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 3	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 4	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 5	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

Parameter	Mandatory	Type	Description
custom_field3 6	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 7	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 8	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A
custom_field3 9	No	String	Definition: Custom field. Constraints: Based on the custom values. Options: Based on the custom values. Default value: N/A

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 4-106 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

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

Status code: 400**Table 4-107** 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 4-108** 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}/v1/eace9c0a00574de6878ab580daa9a317/bugs-per-developer/query
{ }
```

Example Responses

Status code: 200

OK

```
{
  "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();
        } 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")

    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](#).

4.4.2 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](#).

URI

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

Table 4-109 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-110 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-111 Request body parameters

Parameter	Mandatory	Type	Description
date_range	No	String	Definition: Statistical period. Constraints: Regular expression: ([0-9]{1,15},[0-9]{1,15}) Options: N/A Default value: N/A

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: Regular expression: (([A-Za- z0-9,-]{0,32768})) Value 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

Table 4-112 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

Parameter	Mandatory	Type	Description
custom_field2 0	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 1	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 2	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 3	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
custom_field2 4	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 5	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 6	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 7	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

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

Parameter	Mandatory	Type	Description
custom_field3 2	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 3	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 4	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 5	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
custom_field3 6	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 7	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 8	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 9	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

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 4-113 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

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

Parameter	Mandatory	Type	Description
custom_field2 2	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 3	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 4	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 5	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
custom_field2 6	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 7	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 8	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field2 9	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

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

Parameter	Mandatory	Type	Description
custom_field3 4	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 5	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 6	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A
custom_field3 7	No	String	Definition: Custom field. Constraints: N/A Options: N/A Default value: N/A

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: Regular expression: (ontime all) Options: ontime: on time all: all Default value: N/A

Response Parameters

Status code: 200

Table 4-114 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 4-115** Response body parameters

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

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

Status code: 401**Table 4-116** 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}/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**

OK

```
{
  "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());
            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.

Status Codes

Status Code	Description
200	OK
400	Bad Request

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.3 Querying the Bug Density

Function

This API is used to query bug density.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 4-117 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-118 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-119 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

Parameter	Mandatory	Type	Description
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 4-120 dividend

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

Table 4-121 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

Parameter	Mandatory	Type	Description
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 4-122 divisor

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

Table 4-123 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

Parameter	Mandatory	Type	Description
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 4-124 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

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

Status code: 400**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

Status code: 401**Table 4-126** 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}/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

OK

```
{  
  "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.

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.getStatusCode());
    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.valueOf("<YOUR REGION>")) \
        .build()

    try:
        request = ShowBugDensityV2Request()
        request.project_id = "{project_id}"
        listCustomFieldsDividend = [
            MetricRequestV2DividendCustomFields(
                name="Custom field name.",
                options="Custom field value"
            )
        ]
        dividendbody = MetricRequestV2Dividend()
        dividendbody.with_custom_fields(listCustomFieldsDividend)
        body = MetricRequestV2()
        body.with_dividend(dividendbody)
        body.with_metric_type("bug_density")
        body.with_date_range("1590940800000,1593446400000")
        request.with_body(body)
        try:
            response = client.show_bug_density_v2(request)
            print(response.to_string())
        except exceptions.ConnectionException as e:
            e.printStackTrace()
        except exceptions.RequestTimeoutException as e:
            e.printStackTrace()
        except exceptions.ServiceResponseException as e:
            e.printStackTrace()
            print(e.get_status_code())
            print(e.get_request_id())
            print(e.get_error_code())
            print(e.get_error_msg())
    except Exception as e:
        e.printStackTrace()
```

```
)
]
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
    // 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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5 Project Statistics

4.5.1 Obtaining Bug Statistics

Function

This API is used to obtain bug statistics by module.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 4-127 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-128 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-129 Response body parameters

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

Table 4-130 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

Parameter	Type	Description
total	Integer	Definition: Total number. Options: N/A

Status code: 400**Table 4-131** 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 4-132** 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/526cefde62004de2b62b5e8dd2c2b3af/bug-statistic
```

Example Responses

Status code: 200

Definition:

Bug statistics.

```
{
  "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();
        }
    }
}
```

```
        e.printStackTrace();
        System.out.println(e.getStatusCode());
        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 = 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 {
    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](#).

4.5.2 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.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 4-133 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-134 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-135 Response body parameters

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

Table 4-136 DemandStatisticResponseV4

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

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

Table 4-137 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 4-138** 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/526cefde62004de2b62b5e8dd2c2b3af/demand-statistic
```

Example Responses

Status code: 200

OK

```
{
  "demand_statistics": [ {
    "closed_num": 1,
    "module": "Billing",
    "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.getErrMsg());  
        }  
    }  
}
```

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().
        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](#).

4.5.3 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](#).

URI

GET /v4/projects/{project_id}/summary

Table 4-139 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-140 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-141 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. Options: Maximum length: 32 characters.

Table 4-142 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

Parameter	Type	Description
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

Table 4-143 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

Parameter	Type	Description
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

Table 4-144 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 4-145 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
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 4-146 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

Status code: 401**Table 4-147** 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/526cefde62004de2b62b5e8dd2c2b3af/summary
```

Example Responses**Status code: 200**

OK

```
{
  "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
}],
"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();
        }
    }
}
```

```
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getStatusCode());
        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 = 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)
    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](#).

4.6 Work Items of the Scrum Project

4.6.1 Creating a Customized Field for a Work Item Type

Function

Creating a Customized Field for a Work Item Type

URI

POST /v3/{project_id}/custom-fields

Table 4-148 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-149 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Table 4-150 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter
type	Yes	String	Customized Field Type Optional Type textArea select radio text checkbox date time_date number
options	Yes	String	Options
memo	Yes	String	Description
scrum_type	Yes	String	Type

Response Parameters

Status code: 200

Table 4-151 Response body parameters

Parameter	Type	Description
options	String	Options
region	String	System fields
id	Integer	Field ID.
identifier	String	Field ID.
project_id	Integer	Project ID
tracker_id	Integer	Work item type ID. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story
custom_field	String	System Field Name
type	String	Field Type
name	String	Parameter
sort	Integer	System fields
memo	String	Description
created	String	Created
modified	String	Time when the gateway response was last modified
is_delete	Boolean	Deleted or Not

Status code: 400**Table 4-152** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-153** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post https://{endpoint}/v3/0792b7d26cb74bd799cbae80063dc74a/custom-fields

```
{
  "name" : "test",
  "type" : "text",
  "memo" : "Description",
  "options" : "0792b7d26cb74bd799cbae80063dc74a",
  "scrum_type" : "Story"
}
```

Example Responses

Status code: 200

OK

```
{
  "options" : "select1,select2",
  "region" : "southchina",
  "id" : 1,
  "identifier" : "81abca040032407bb62d52536d69ce2d",
  "project_id" : 2282492,
  "tracker_id" : 3,
  "custom_field" : "custom_field34",
  "type" : "select",
  "name" : "test",
  "sort" : 1,
  "memo" : "description",
  "created" : "2020-06-02T10:45:09Z",
  "modified" : 1,
  "is_delete" : false
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.2 Uploading an image

Function

Uploading an image

URI

POST /v2/{project_id}/img

Table 4-154 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-155 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Table 4-156 FormData parameters

Parameter	Mandatory	Type	Description
file	Yes	File	GIF Files

Response Parameters

Status code: 200

Table 4-157 Response body parameters

Parameter	Type	Description
img_id	String	Specifies the image ID.
img_url	String	The image URL v1 is changed to v3 as the image download request.

Status code: 400

Table 4-158 Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-159 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post https://{endpoint}/v2/99be3c6242d74ad180292a689f95d666/img

Post https://{endpoint}/v2/99be3c6242d74ad180292a689f95d666/img

Example Responses

Status code: 200

OK

```
{
  "img_id" : 1,
  "img_url" : "/v1/upload/0792b7d26cb74bd799cbae80063dc74a/202006/1591339394752881984.gif"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.3 Obtaining Work Item Completion Rate

Function

Obtain the completion rate of work items.

URI

GET /v4/projects/{project_id}/issue-completion-rate

Table 4-160 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-161 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-162 Response body parameters

Parameter	Type	Description
issue_completion_rates	Array of issue_completion_rates objects	Completion rate of different types of work items
total	Integer	Total

Table 4-163 issue_completion_rates

Parameter	Type	Description
issue_status	issue_status object	Number of work items in different states
tracker_id	Integer	Work item type ID. 1: requirement; 2: task/task; 3: defect /Bug,5Epic,6Feature,7Story

Table 4-164 issue_status

Parameter	Type	Description
closed_num	Integer	Indicates the number of closed work items.
new_num	Integer	Indicates the number of new work items.
process_num	Integer	Indicates the number of work items under development.
rejected_num	Integer	Indicates the number of rejected work items.
solved_num	Integer	Indicates the number of resolved work items.
test_num	Integer	Indicates the number of work items under testing.

Status code: 400**Table 4-165** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-166** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue-completion-rate
```

Example Responses

Status code: 200

OK

```
{
  "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
  } ],
  "total": 2
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.4 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](#).

URI

```
GET /v4/projects/{project_id}/issues/{issue_id}/comments
```

Table 4-167 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} 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

Table 4-168 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Pagination index. The offset is an integer multiple of limit . Constraints: Minimum value: 0 . Value range: Minimum value: 0 . Maximum value: 10,000 . Default value: 0
limit	Yes	Integer	Definition: Number of records displayed on each page. Constraints: N/A Options: Minimum value: 1 . Maximum value: 1,000 . Default value: 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-169 Response body parameters

Parameter	Type	Description
comments	Array of IssueCommentV4 objects	Definition: Comment list.
total	Integer	Definition: Total number of comments. Options: N/A

Table 4-170 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. Options: N/A
timestamp	String	Definition: Comment timestamp. Options: N/A
user	CommentUserV4 object	Definition: User information.

Table 4-171 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

Parameter	Type	Description
user_num_id	Integer	Definition: ID of the user who posted the comment. Options: N/A

Status code: 400**Table 4-172** 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 4-173** 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/e2da96a5d2c845e284f0ad47f8ca8cb1/issues/1232495/comments>

Example Responses

Status code: 200

OK

```
{
  "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");

        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();
        }
    }
}
```

```
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getStatusCode());
        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)
```

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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.5 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](#).

URI

POST /v4/projects/{project_id}/work-hours

Table 4-174 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-175 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-176 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	No	String	Definition: Work start date: YYYY-MM-DD. Constraints: Regular expression: [1-9]\d{3}-(0?[1-9] 1[0-2])-(0[1-9] [1-2][0-9] 3[0-1]) Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
end_time	No	String	Definition: Work end date: YYYY-MM-DD. Constraints: Regular expression: [1-9]\d{3}-(0?[1-9] 1[0-2])-(0[1-9] [1-2][0-9] 3[0-1]) Options: 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 .
offset	No	Integer	Definition: Offset. Constraints: Offset must be an integral multiple of limit . If limit equals 10 , then valid offset values are 0, 10, 20 , and so on. Value range: Minimum value: 0 . Maximum value: 10,000 . Default value: 0

Parameter	Mandatory	Type	Description
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: Regular expression: [0-9a-z]{32}
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

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 4-177 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number. Options: N/A

Parameter	Type	Description
work_hours	Array of work_hours objects	Definition: Workload list.

Table 4-178 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. Options: 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

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. Options: 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

Status code: 400**Table 4-179** 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 4-180** 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/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours
{
  "end_time" : "2020-08-14",
  "limit" : 1,
  "offset" : 0
}
```

Example Responses**Status code: 200**

ok

```
{
  "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}");
        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 (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
    } 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 (
    "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.

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.6 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](#).

URI

POST /v4/projects/work-hours

Request Parameters

Table 4-181 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
end_time	No	String	Definition: Work end time. The format is YYYY-MM-DD. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition: Number of records displayed on each page (max: 500). Constraints: N/A Options: Minimum value: 1 . Maximum value: 500 . Default value: N/A
offset	No	Integer	Definition: Offset, which is an integer multiple of limit . Constraints: N/A Options: Minimum value: 0 . Default value: N/A
project_ids	No	Array of strings	Definition: List of 32-character UUIDs, which uniquely identify projects. Obtain these from the project_id field in the response body of the API for querying the project list. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
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: Regular expression: [0-9a-z]{32} Value range: N/A Default value: N/A
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

Parameter	Mandatory	Type	Description
work_hours_types	No	String	Definition: Work type. Separate multiple values by commas (.). Example: 21, 22, 23 Constraints: N/A 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 4-182 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number. Options: N/A

Parameter	Type	Description
work_hours	Array of work_hours objects	Definition: Workload list.

Table 4-183 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. Options: 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

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. Options: 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

Status code: 400**Table 4-184** 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 4-185** 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/work-hours

```
{
  "end_time" : "2020-08-14",
  "limit" : 1,
  "offset" : 0,
  "project_ids" : [ "e2da96a5d2c845e284f0ad47f8ca8cb2", "a2da96a5d2c845e284f0ad47f8ca8cef" ]
}
```

Example Responses**Status code: 200**

ok

```
{
  "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");

        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,
            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)
    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](#).

4.6.7 Obtaining Historical Records of Work Items

Function

This API is used to obtain historical records of work items.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/issue/{issue_id}/records

Table 4-186 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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

Table 4-187 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Pagination index, which is the offset. Constraints: Offset must be an integral multiple of limit . If limit equals 10 , then valid offset values are 0, 10, 20 , and so on. Options: Minimum value: 0 . Default value: 0

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 4-188 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-189 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 4-190 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 4-191 details

Parameter	Type	Description
id	Integer	Definition: Operation record ID. Options: N/A

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. Options: JOURNAL_1: modify JOURNAL_2: create JOURNAL_3: delete JOURNAL_4: clone JOURNAL_5: import JOURNAL_6: transfer code commits JOURNAL_7: update the import JOURNAL_8: batch edit ARCHIVING: archive CANCEL_ARCHIVING: cancel archiving ASSOCIATE_TEST_CASE: associate a case CANCEL_ASSOCIATED_TEST_CASE: cancel associating a case ASSOCIATE_CODE_BRANCH: associate a branch ASSOCIATE_ISSUE: associate a work item CANCEL_ASSOCIATED_ISSUE: cancel associating a work item CLOSE_SPRINT: end a sprint

Parameter	Type	Description
property	String	Definition: Operation attribute. Options: N/A

Table 4-192 user

Parameter	Type	Description
nick_name	String	Definition: Alias. Options: N/A
user_id	String	Definition: 32-digit UUID of a user. Options: N/A
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 4-193** Response body parameters

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

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

Status code: 401

Table 4-194 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/e2da96a5d2c845e284f0ad47f8ca8cb1/issue/3458/records

Example Responses

Status code: 200

OK

```
{
  "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
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are 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.getErrMsg());
        }
    }
}
```

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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.8 Create work items.

Function

Create work items.

URI

POST /v4/projects/{project_id}/issue

Table 4-195 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-196 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Table 4-197 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Description
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	ID domain, 14'Performance', 15'Function', 16'Reliability' 17'Cyber security' 18'Maintainability' 19'Other DFX' 20'Availability'
done_ratio	No	Integer	Work Item Progress Value

Parameter	Mandatory	Type	Description
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	Yes	String	Title
parent_issue_id	No	Integer	ID of the parent work item. This parameter is mandatory when a child work item is created. The value of tracker_id of the parent work item cannot be 2 or 3.
priority_id	Yes	Integer	Priority, 1: low, 2: medium, 3: high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,
tracker_id	Yes	Integer	Work item type. The options are as follows: 2: task; 3: defect / Bug, 5Epic, 6Feature, 7Story. The value 5 can only be the parent work item type of 6. 6 can only be the parent work item type of 7. The value 7 can only be the parent of 2 or 3.
new_custom_fields	No	Array of NewCustomField objects	Custom Item

Table 4-198 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	Custom Parameter
field_name	No	String	Custom field name

Parameter	Mandatory	Type	Description
value	No	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Response Parameters

Status code: 200

Table 4-199 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	Cc recipient.
begin_time	String	Start time, in the format of year-month-day.
creator	IssueUser object	Creator.
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	Developer.
domain	domain object	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratio	Integer	Work Item Progress Value
end_time	String	End time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID

Parameter	Type	Description
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Sprint
module	module object	Module
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

Table 4-200 IssueUser

Parameter	Type	Description
user_id	String	User UUID
user_num_id	Integer	Digital ID of a user
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-201 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-202 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-203 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-204 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-205 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-206 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-207 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-208 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-209 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-210 status

Parameter	Type	Description
id	Integer	Status ID.
name	String	Status Name

Table 4-211 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-212 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-213 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issue
{
  "parent_issue_id" : 1679822,
  "end_time" : "2018-07-05",
  "name" : "test",
  "begin_time" : "2018-1-31",
  "description" : "",
  "assigned_id" : 4091,
  "developer_id" : 4091,
  "tracker_id" : 3,
  "status_id" : 1,
  "priority_id" : 2,
  "severity_id" : 10,
  "iteration_id" : 11302238
}
```

Example Responses

Status code: 200

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "user_name_demo",
    "nick_name" : "nick_name_demo"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "user_name_demo",
    "nick_name" : "nick_name_demo"
  },
  "begin_time" : "2020-09-12",
  "creator" : {
    "id" : 4091,
    "name" : "user_name_demo",
```

```
{
  "nick_name" : "nick_name_demo"
},
"custom_fields" : [ {
  "name" : "customField16",
  "value" : "Check box",
  "new_name" : "custom_field16"
} ],
"new_custom_fields" : [ {
  "custom_field" : "custom_field16",
  "field_name" : "field_name",
  "value" : "select1,select2"
} ],
"developer" : {
  "id" : 4091,
  "name" : "user_name_demo",
  "nick_name" : "nick_name_demo"
},
"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" : "iteration_1"
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"parent_issue" : {
  "id" : 123,
  "name" : "paren_issue_demo"
},
"priority" : {
  "id" : 1,
  "name" : "Low"
},
"severity" : {
  "id" : 12,
  "name" : "Middle"
},
"status" : {
  "id" : 1,
  "name" : "New"
},
"tracker" : {
  "id" : 7,
  "name" : "story"
}
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.9 Querying Work Items of a Project

Function

Work item type ID, which is a pagination parameter and is used to query work items of a project by creation time.

URI

GET /v4/projects/{project_id}/issues

Table 4-214 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Table 4-215 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	The offset starts from 0. Minimum: 0
limit	No	Integer	The minimum number of records on each page is 1 and the maximum number is 100. Minimum: 1 Maximum: 100

Parameter	Mandatory	Type	Description
tracker_id	No	Integer	Type Enumeration values: • 2 • 3 • 4 • 5 • 6 • 7
created_time_interval	No	String	Time when a work item is created (start time and end time of the query)
updated_time_interval	No	String	Time when a work item is updated (start time and end time of the query).

Request Parameters

Table 4-216 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-217 Response body parameters

Parameter	Type	Description
issues	Array of IssueItemSfv 4 objects	Item

Parameter	Type	Description
total	Integer	Total

Table 4-218 IssueItemSfv4

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_user	IssueUser object	User Information.
author	IssueUser object	User Information.
begin_time	Long	Work Item Start Time
closed_time	Long	Time when a work item is closed.
created_time	Long	Created
custom_feilds	Array of CustomFeild Record objects	Custom attributes.
developer	IssueUser object	Developer Information.
discover_version	String	Version Where the Problem Is Found
end_time	Long	Work Item End Time
done_ratio	Integer	Work Item Progress Value
expected_work_hours	Double	Expected
order	Integer	Order. Minimum: 1 Maximum: 100
parent_issue_id	Integer	ID of the parent work item.
release_version	String	Released Version
root_issue_id	Integer	ID of the root work item.

Parameter	Type	Description
story_point	story_point object	Story point information. 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(?)
domain	domain object	Domain Information. 14(Performance) 15(Function) 16(Reliability) 17(Network security) 18(Maintainability) 19(Other DFX) 20(Availability)
iteration	iteration object	Sprint
module	module object	Module
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
subject	String	Indicates the title of the work item.
updated_time	Long	Work Item Update Time

Table 4-219 CustomFeildRecord

Parameter	Type	Description
key	String	Customizing Work Item Attributes
name	String	User-defined Work Item Name
value	String	User-defined Work Item Value

Table 4-220 IssueUser

Parameter	Type	Description
user_id	String	User UUID
user_num_id	Integer	Digital ID of a user
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-221 story_point

Parameter	Type	Description
id	Integer	Story point ID.
name	String	Story Point

Table 4-222 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-223 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-224 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-225 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-226 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-227 status

Parameter	Type	Description
id	Integer	Status ID.
name	String	Event Name

Table 4-228 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-229 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-230 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Get https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues

Get https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues

Example Responses

Status code: 200

OK

```
{
  "issues": [ {
    "actual_work_hours": 10,
    "assigned_user": {
      "id": 4091,
      "name": "demo_user_name",
      "nick_name": "demo"
    },
    "author": {
      "id": 4091,
      "name": "demo_user_name",
      "nick_name": "demo"
    },
    "begin_time": 1590940800000,
    "closed_time": 1590940800000,
    "created_time": 1590940800000,
    "custom_feilds": [ {
      "key": "customField15",
      "name": "single",
      "value": "15Demo"
    } ],
    "developer": {
      "id": 4091,
      "name": "demo_user_name",
      "nick_name": "demo"
    },
    "discover_version": "ProjectMan 8.0.0",
    "end_time": 1590940800000,
    "done_ratio": 0,
```

```
"expected_work_hours" : 9,
"order" : 1,
"parent_issue_id" : 123,
"release_version" : "ProjectMan 8.0.0",
"root_issue_id" : 0,
"story_point" : {
  "id" : 1,
  "name" : "0"
},
"domain" : {
  "id" : 14,
  "name" : "Performance"
},
"iteration" : {
  "id" : 456,
  "name" : "Iteration 1"
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"priority" : {
  "id" : 1,
  "name" : "Low"
},
"severity" : {
  "id" : 12,
  "name" : "Middle"
},
"status" : {
  "id" : 1,
  "name" : "New"
},
"tracker" : {
  "id" : 7,
  "name" : "story"
},
"subject" : "demo",
"updated_time" : 1576114296000
}],
"total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.10 Advanced Query Work Item

Function

Queries work items based on filter criteria.

URI

POST /v4/projects/{project_id}/issues

Table 4-231 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-232 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Table 4-233 Request body parameters

Parameter	Mandatory	Type	Description
assigned_ids	No	Array of integers	Specifies the processor ID.
creator_ids	No	Array of integers	Creator ID.
developer_ids	No	Array of integers	Developer ID, which corresponds to the numeric ID of the user information.

Parameter	Mandatory	Type	Description
domain_ids	No	Array of integers	ID, domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratios	No	Array of integers	Completion Rate
iteration_ids	No	Array of integers	Identifies a sprint.
limit	No	Integer	Number of records on each page. Minimum: 1 Maximum: 100
offset	No	Integer	Specifies the paging index and offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0
module_ids	No	Array of integers	Specifies the module ID.
priority_ids	No	Array of integers	Priority
query_type	No	String	Query type backlog feature epic
severity_ids	No	Array of integers	Search Type
status_ids	No	Array of integers	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,
story_point_ids	No	Array of integers	Story point ID.
tracker_ids	No	Array of integers	Work item type. The options are as follows: 2: task; 3: defect / Bug,5Epic,6Feature,7Story.
include_deleted	No	Boolean	true: The queried work items contain the work items that have been logically deleted. false: The queried work items do not contain the work items that have been deleted.

Parameter	Mandatory	Type	Description
created_time_interval	No	String	This interface is used to query work items based on the work item creation time (query start time and query end time).
updated_time_interval	No	String	Query work items according to the update time of work items (query start time and query end time).
closed_time_interval	No	String	Query work items according to the end time of the work items (start time and end time of the query).
custom_fields	No	Array of custom_fields objects	Custom Parameter

Table 4-234 custom_fields

Parameter	Mandatory	Type	Description
custom_field	No	String	Customized Attribute Field
value	No	String	Value of a customized attribute.

Response Parameters

Status code: 200

Table 4-235 Response body parameters

Parameter	Type	Description
issues	Array of ListIssueItemResponse objects	Work Item List
total	Integer	Total

Table 4-236 ListIssueItemResponse

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	User Information.
begin_time	String	Estimated start time, in the format of year-month-day.
created_time	String	Creation time Year-Month-Day Hour:Minute:Second
creator	IssueUser object	Creator Information.
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	Developer Information.
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
done_ratio	Integer	Work Item Progress Value
end_time	String	Estimated end time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Iteration
module	module object	Module

Parameter	Type	Description
name	String	Title
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
order	order object	Order Information
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
release_dev	String	Release
find_release_dev	String	release
env	env object	Environment
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second
deleted	Boolean	Indicates whether the data has been deleted. The value true indicates that the data has been deleted, and the value false indicates that the data has not been deleted.

Table 4-237 IssueUser

Parameter	Type	Description
user_id	String	User UUID
user_num_id	Integer	Digital ID of a user
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-238 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-239 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-240 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-241 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-242 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-243 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-244 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-245 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-246 order

Parameter	Type	Description
id	Integer	Id
name	String	Name

Table 4-247 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-248 status

Parameter	Type	Description
id	Integer	Identifies a status.
name	String	Event Name

Table 4-249 env

Parameter	Type	Description
id	Integer	Id
name	String	Name

Table 4-250 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400**Table 4-251** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-252** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
{
  "status_ids": [ 1 ]
}
```

Example Responses

Status code: 200

OK

```
{
  "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"
        }
      ],
      "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": "Iteration 1"
      },
      "module": {
        "id": 456,
        "name": "Project"
      },
      "name": "I18N",
      "parent_issue": {
        "id": 123,
        "name": "Provide the function of querying project members"
      },
      "priority": {
```

```
{
  "id": 1,
  "name": "Low"
},
"severity": {
  "id": 12,
  "name": "Middle"
},
"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
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.11 Deleting Scrum Work Items in Batches

Function

This API is used to delete work items in batches.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v4/projects/{project_id}/issues

Table 4-253 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-254 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-255 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 Value range: Maximum length: 100 characters. Default value: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-256 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 4-257 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

```
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
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are 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.getErrMsg());
}
}
```

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}"
        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)
    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](#).

4.6.12 Querying Work Item Details

Function

This API is used to query work item details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/issues/{issue_id}

Table 4-258 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} 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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-259 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

Parameter	Type	Description
developer	IssueUser object	Definition: Developer.
domain	domain object	Parameter description: Domain.
done_ratio	Integer	Parameter description: Work item completion rate. For example, 20 indicates that the completion rate is 20%. Options: Minimum value: 0 . Maximum value: 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	Parameter description: Work item ID. Options: 0 to 9,999,999,999
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.

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.

Table 4-260 IssueAccessory

Parameter	Type	Description
attachment_id	Integer	Definition: Attachment ID. Options: N/A
container_type	String	Definition: Container type. Value range: Scrum

Parameter	Type	Description
created_date	String	Definition: Time when the attachment was created. The value is in the format of YYYY-MM-DD HH:MM:SS. Options: N/A
creator_id	String	Definition: Creator UUID. Options: N/A
creator_num_id	Integer	Definition: Digital ID of the creator. Options: N/A
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 4-261 IssueUser

Parameter	Type	Description
id	Integer	Definition: User ID. Value range: N/A
name	String	Definition: Username with the tenant name: Tenant name_Username. Options: N/A
nick_name	String	Definition: Alias. Options: N/A
user_id	String	Definition: User UUID. Value range: N/A
user_num_id	Integer	Definition: Digital ID of a user. Value range: N/A
first_name	String	Definition: Username. Value range: N/A

Table 4-262 CustomField

Parameter	Type	Description
name	String	Definition: Custom property name. Value range: N/A

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 4-263 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 4-264 iteration

Parameter	Type	Description
id	Integer	Definition: Sprint ID. Options: Minimum value: 0 .

Parameter	Type	Description
name	String	Parameter description: Sprint name. Options: N/A

Table 4-265 module

Parameter	Type	Description
id	Integer	Parameter description: Module ID. Value range: Minimum value: 0 .
name	String	Parameter description: Module name. Options: N/A

Table 4-266 IssueOrder

Parameter	Type	Description
id	Integer	Definition: Sequence ID. Options: Minimum value: 0 .
name	String	Definition: Sequence value. Options: N/A

Table 4-267 parent_issue

Parameter	Type	Description
id	Integer	Parameter description: Parent work item ID. Options: Minimum value: 0 .
name	String	Parameter description: Parent work item name. Options: N/A

Table 4-268 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 4-269 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Definition: Project ID. Value range: N/A
project_name	String	Definition: Project name. Value range: N/A

Parameter	Type	Description
project_num_id	Integer	Definition: Digital ID of a project. Options: Minimum value: 0 .

Table 4-270 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 4-271 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

Parameter	Type	Description
name	String	Parameter description: Status name. Options: N/A

Table 4-272 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 Options: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12
name	String	Definition: Story point name. Options: N/A

Table 4-273 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 4-274 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. Constraints: This field can be left blank. Options: N/A Default value: N/A

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. Constraints: This field can be left blank. Value range: N/A Default value: N/A
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. Constraints: This field can be left blank. Value range: N/A Default value: N/A
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 4-275 SecurityLevelResult

Parameter	Type	Description
id	String	Definition: Security level code. Constraints: N/A Value range: N/A Default value: N/A
name	String	Definition: Security level field name. Constraints: N/A Value range: N/A Default value: N/A
sequence	Integer	Definition: Security level sorting value. A larger value indicates a higher security level.

Status code: 400**Table 4-276** 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 4-277** 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/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

Example Responses**Status code: 200**

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "begin_time" : "2020-09-12",
  "created_time" : "2020-09-13 14:40:11",
  "creator" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "value",
    "new_name" : "custom_field16"
  } ],
  "new_custom_fields" : [ {
    "custom_field" : "custom_field16",
    "field_name" : "bear1",
    "value" : "bear11,bear12",
    "field_type" : "textArea",
    "description" : "description"
  } ],
  "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": "iteeration1"
},
"story_point": {
  "id": 3,
  "name": "1"
},
"module": {
  "id": 456,
  "name": "Project"
},
"name": "issueDemo",
"parent_issue": {
  "id": 123,
  "name": "parentDemo"
},
"priority": {
  "id": 1,
  "name": "Low"
},
"severity": {
  "id": 12,
  "name": "Minor"
},
"status": {
  "id": 1,
  "name": "Initial"
},
"tracker": {
  "id": 7,
  "name": "story"
},
"updated_time": "2020-09-14 14:40:11",
"closed_time": "2020-09-15 14:40:11",
"description": "demo",
"order": {
  "id": 1,
  "name": "1"
},
"accessories": [ {
  "attachment_id": 123444,
  "issue_id": 123444,
  "creator_num_id": 123444,
  "created_date": "2021-12-15 15:57:16",
  "file_name": "res.jpg",
  "container_type": "issue",
  "disk_file_name": "f0ef7216-fd05-40d4-8dea-6e6057739bb7.jpg",
  "digest": 123444,
  "disk_directory": 123444,
  "creator_id": "a360371833bf4c558f796fd707b44daf"
} ]
}
```

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");
        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)
```

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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.13 Updating a Work Item

Function

Updating a Work Item

URI

PUT /v4/projects/{project_id}/issues/{issue_id}

Table 4-278 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Request Parameters

Table 4-279 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum: 10 Maximum: 32768

Table 4-280 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Details
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	Identifies a domain.
done_ratio	No	Integer	Work Item Progress Value
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	No	String	Title
parent_issue_id	No	Integer	ID of the parent work item.
priority_id	No	Integer	Priority, 1: low, 2: medium, 3: high,

Parameter	Mandatory	Type	Description
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 resolved,
tracker_id	No	Integer	Work item type. The options are as follows: 2: task; 3: defect / Bug,5Epic,6Feature,7Story.
new_custom_fields	No	Array of NewCustomField objects	Custom Item

Table 4-281 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	Custom Parameter
field_name	No	String	Custom field name
value	No	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Response Parameters

Status code: 200

Table 4-282 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	User Information.
begin_time	String	Estimated start time, in the format of year-month-day.

Parameter	Type	Description
created_time	String	Creation time Year-Month-Day Hour:Minute:Second
creator	IssueUser object	Creator Information.
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	Developer Information.
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
done_ratio	Integer	Work Item Progress Value
end_time	String	Estimated end time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Iteration
module	module object	Module
name	String	Title
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
order	order object	Order Information
severity	severity object	Work Item Importance
status	status object	Work Item Statuses

Parameter	Type	Description
release_dev	String	Release
find_release_dev	String	Release
env	env object	Environment
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second

Table 4-283 IssueUser

Parameter	Type	Description
user_id	String	User UUID
user_num_id	Integer	Digital ID of a user
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-284 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-285 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-286 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-287 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-288 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-289 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-290 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-291 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-292 order

Parameter	Type	Description
id	Integer	Order Id
name	String	Order Name

Table 4-293 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-294 status

Parameter	Type	Description
id	Integer	Identifies a status.
name	String	Event Name

Table 4-295 env

Parameter	Type	Description
id	Integer	Environment Id
name	String	Environment Name

Table 4-296 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400**Table 4-297** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-298** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
{
  "status_id" : 2
}
```

Example Responses**Status code: 200**

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "begin_time" : "2020-09-12",
  "created_time" : "2020-09-13 14:40:11",
  "creator" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "select1",
    "new_name" : "custom_field16"
  } ],
}
```

```
"new_custom_fields" : [ {  
  "custom_field" : "custom_field16",  
  "field_name" : "field_name",  
  "value" : "select1,select2"  
} ],  
"developer" : {  
  "id" : 4091,  
  "name" : " demo_user",  
  "nick_name" : "demo"  
},  
"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" : "Iteration 1"  
},  
"module" : {  
  "id" : 456,  
  "name" : "Project"  
},  
"name" : "issue name",  
"parent_issue" : {  
  "id" : 123,  
  "name" : "parent issue name"  
},  
"priority" : {  
  "id" : 1,  
  "name" : "Low"  
},  
"severity" : {  
  "id" : 12,  
  "name" : "Middle"  
},  
"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"  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.14 Deleting a Work Item (V4)

Function

This API is used to delete a work item.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v4/projects/{project_id}/issues/{issue_id}

Table 4-299 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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

Request Parameters

None

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-300 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 4-301 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

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

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 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
    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})
    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](#).

4.6.15 Obtaining Child Work Items

Function

This API is used to obtain child work items.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/issues/{issue_id}/child

Table 4-302 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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

Request Parameters

Table 4-303 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-304 Response body parameters

Parameter	Type	Description
issues	Array of IssueResponseV4 objects	Definition: Work item list.
total	Integer	Definition: Total number. Options: N/A

Table 4-305 IssueResponseV4

Parameter	Type	Description
actual_work_hours	Double	Parameter description: Actual workloads. Value range: Minimum value: 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.

Parameter	Type	Description
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%. Options: Minimum value: 0 . Maximum value: 100 .
end_time	String	Definition: Estimated end time. The format is YYYY-MM-DD. Options: N/A
expected_work_hours	Double	Definition: Estimated workloads. Options: Minimum value: 0 .
id	Integer	Definition: Work item ID. Options: 0 to 9,999,999,999
iteration	iteration object	Definition: Sprint.
module	module object	Definition: Module.
name	String	Definition: Title. Options: N/A

Parameter	Type	Description
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

Table 4-306 IssueUser

Parameter	Type	Description
id	Integer	Definition: User ID. Value range: N/A
name	String	Definition: Username with the tenant name: Tenant name_Username. Options: N/A

Parameter	Type	Description
nick_name	String	Definition: Alias. Options: N/A
user_id	String	Definition: User UUID. Value range: N/A
user_num_id	Integer	Definition: Digital ID of a user. Value range: N/A
first_name	String	Definition: Username. Value range: N/A

Table 4-307 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 4-308 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 4-309 iteration

Parameter	Type	Description
id	Integer	Definition: Sprint ID. Options: Minimum value: 0 .
name	String	Definition: Sprint name. Options: N/A

Table 4-310 module

Parameter	Type	Description
id	Integer	Definition: Module ID. Options: Minimum value: 0 .

Parameter	Type	Description
name	String	Definition: Module. Options: N/A

Table 4-311 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. Constraints: This field can be left blank. Options: N/A Default value: N/A
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. Constraints: This field can be left blank. Value range: N/A Default value: N/A

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. Constraints: This field can be left blank. Value range: N/A Default value: N/A

Table 4-312 parent_issue

Parameter	Type	Description
id	Integer	Definition: Parent work item ID. Options: Minimum value: 0 .
name	String	Definition: Parent work item. Options: N/A

Table 4-313 priority

Parameter	Type	Description
id	Integer	Definition: Priority ID. The options are as follows: 1: low 2: medium 3: high Options: 1, 2, and 3

Parameter	Type	Description
name	String	Definition: Priority. Options: N/A

Table 4-314 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Definition: Project ID. Value range: N/A
project_name	String	Definition: Project name. Value range: N/A
project_num_id	Integer	Definition: Digital ID of a project. Options: Minimum value: 0 .

Table 4-315 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 4-316 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 4-317 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 4-318 SecurityLevelResult

Parameter	Type	Description
id	String	Definition: Security level code. Constraints: N/A Value range: N/A Default value: N/A
name	String	Definition: Security level field name. Constraints: N/A Value range: N/A Default value: N/A
sequence	Integer	Definition: Security level sorting value. A larger value indicates a higher security level.

Status code: 400

Table 4-319 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 4-320 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/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921/child

Example Responses

Status code: 200

OK

```
{
  "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"
    } ],
    "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

Error Codes

See [Error Codes](#).

4.6.16 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](#).

URI

GET /v4/projects/{project_id}/issues/records

Table 4-321 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-322 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset. Constraints: The value must be an integral multiple of limit . Options: Minimum value: 0 . Default value: N/A
limit	No	Integer	Definition: Number of data records on each page. Constraints: N/A Options: Minimum value: 1 . Maximum value: 100 . Default value: N/A
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 4-323 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-324 Response body parameters

Parameter	Type	Description
records	Array of IssueAttrHistoryRecord objects	Definition: Historical records.
total	Integer	Definition: Total number. Options: N/A

Table 4-325 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. Options: N/A
issue_id	Long	Definition: Work item ID. Options: 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
operated_time	Long	Definition: Time when the change occurs. Options: N/A
operation	String	Definition: Operation type. Options: Create Modify Delete

Parameter	Type	Description
operator	IssueUser object	Definition: Operator.
property	String	Definition: Changed property. Options: N/A

Table 4-326 IssueUser

Parameter	Type	Description
id	Integer	Definition: User ID. Value range: N/A
name	String	Definition: Username with the tenant name: Tenant name_Username. Options: N/A
nick_name	String	Definition: Alias. Options: N/A
user_id	String	Definition: User UUID. Value range: N/A
user_num_id	Integer	Definition: Digital ID of a user. Value range: N/A
first_name	String	Definition: Username. Value range: N/A

Status code: 400**Table 4-327** 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 4-328** 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/526cefde62004de2b62b5e8dd2c2b3af/issues/records
```

Example Responses**Status code: 200**

OK

```
{
  "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" : {
  "id" : 4091,
  "name" : "demo_user_name",
  "nick_name" : "Tom"
},
"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();
        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.getErrMsg());
        }
    }
}
```

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
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are 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](#).

4.6.17 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](#).

URI

GET /v4/projects/{project_id}/issues/workflow/config

Table 4-329 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-330 Query Parameters

Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	Parameter description: Work item type ID. The options are as follows: 2 (task) 3 (bug) 5 (epic) 6 (feature) 7 (story) Constraints: Regular expression: ^\d+ Options: 2, 3, 5, 6, and 7 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-331 Response body parameters

Parameter	Type	Description
workflows	Array of ScrumStatusFlowVo objects	Definition: Transition data.

Table 4-332 ScrumStatusFlowVo

Parameter	Type	Description
direct_to	Array of ScrumStatusFlowDirectToVo objects	Definition: Status transition information.
id	String	Definition: UUID of the transition data. Options: N/A
name	String	Definition: Status name. Options: N/A
status_id	Integer	Definition: Status ID. Options: N/A

Table 4-333 ScrumStatusFlowDirectToVo

Parameter	Type	Description
enabled	Boolean	Definition: Whether to enable transition. Options: N/A

Parameter	Type	Description
id	String	Definition: UUID of the transition data. Options: N/A
name	String	Definition: Status. Options: N/A
status_id	Integer	Definition: Status ID. Options: N/A

Status code: 400**Table 4-334** 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 4-335** Response body parameters

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

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

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/workflow/config?
tracker_id=7
```

Example Responses

Status code: 200

OK

```
{
  "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
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are 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.getStatusCode());
    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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.18 Creating a Work Item as a Fine-grained Permission User

Function

Users with the IAM fine-grained permission (projectmanConfig:systemSettingField:set) and the permission to create work items in the devcloud project can set the creator of work items.

URI

POST /v4/projects/{project_id}/system/issue

Table 4-336 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-337 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Table 4-338 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Description
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	ID domain, 14'Performance', 15'Function', 16'Reliability' 17'Cyber security' 18'Maintainability' 19'Other DFX' 20'Availability'
done_ratio	No	Integer	Work Item Progress Value
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	Yes	String	Title
parent_issue_id	No	Integer	ID of the parent work item. This parameter is mandatory when a child work item is created. The value of tracker_id of the parent work item cannot be 2 or 3.
priority_id	Yes	Integer	Priority, 1: low, 2, 3 high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,

Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	Work item type. The options are as follows: 2: task; 3: defect / Bug,5Epic,6Feature,7Story. The value 5 can only be the parent work item type of 6. 6 can only be the parent work item type of 7. The value 7 can only be the parent of 2 or 3.
new_custom_fields	No	Array of NewCustomField objects	Custom Item
creator	Yes	Creator object	Creator Information.
custom_fields	No	Array of ScrumCustomField objects	Custom Item

Table 4-339 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	Custom Parameter
field_name	No	String	Custom field name
value	No	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-340 Creator

Parameter	Mandatory	Type	Description
user_id	Yes	String	ID of the creator of a specified work item.

Table 4-341 ScrumCustomField

Parameter	Mandatory	Type	Description
name	No	String	Custom Field

Parameter	Mandatory	Type	Description
value	No	String	Indicates the customized field value.

Response Parameters

Status code: 200

Table 4-342 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	User Information.
begin_time	String	Start time, in the format of year-month-day.
creator	IssueUser object	Creator Information.
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	Developer Information.
domain	domain object	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratio	Integer	Work Item Progress Value
end_time	String	End time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID

Parameter	Type	Description
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Sprint
module	module object	Module
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

Table 4-343 IssueUser

Parameter	Type	Description
user_id	String	User UUID
user_num_id	Integer	Digital ID of a user
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-344 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-345 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-346 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-347 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-348 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-349 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-350 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-351 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-352 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-353 status

Parameter	Type	Description
id	Integer	Status ID.
name	String	Status Name

Table 4-354 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-355 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-356** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/system/issue

```
{
  "parent_issue_id" : 1679822,
  "end_time" : "2018-07-05",
  "name" : "test",
  "begin_time" : "2018-1-31",
  "description" : "",
  "assigned_id" : 4091,
  "developer_id" : 4091,
  "tracker_id" : 3,
  "status_id" : 1,
  "priority_id" : 2,
  "severity_id" : 10,
  "iteration_id" : 11302238,
  "creator" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf"
  }
}
```

Example Responses**Status code: 200**

OK

```
{
  "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"
  },
  "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" : "Iteration 1"
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"parent_issue" : {
  "id" : 123,
  "name" : "parentIssue"
},
"priority" : {
  "id" : 1,
  "name" : "Low"
},
"severity" : {
  "id" : 12,
  "name" : "Middle"
},
"status" : {
  "id" : 1,
  "name" : "New"
},
"tracker" : {
  "id" : 7,
  "name" : "story"
}
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.19 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](#).

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-issues

Table 4-357 Path 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_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-358 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition: Number of records displayed on each page. Constraints: N/A Value range: Minimum value: 1. Maximum value: 1,000. Default value: 10
offset	No	Integer	Definition: Pagination index. The offset is an integer multiple of limit . Constraints: Minimum value: 0. Value range: Minimum value: 0. Maximum value: 10,000. Default value: 0

Request Parameters

Table 4-359 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-360 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 4-361 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.

Table 4-362 SimpleProject

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 project list. Constraints: Regular expression: [A-Za-z0-9]{32} Default value: N/A
project_name	String	Definition: Project name. Options: N/A

Table 4-363 StatusVo

Parameter	Type	Description
id	String	Definition: Status ID. Options: N/A
name	String	Definition: Value of the status ID. Options: N/A

Table 4-364 SimpleUser

Parameter	Type	Description
nick_name	String	Definition: User alias, which is the value of nick_name in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A
user_id	String	Definition: User UUID, which is the value of user_id in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
user_name	String	Definition: Account name, which is the value of user_name in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A
user_num_id	Integer	Definition: Digital ID of a user, which is the value of user_num_id in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400**Table 4-365** 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 4-366** 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/{project_id}/issues/{issue_id}/associated-issues
```

Example Responses**Status code: 200**

Response to the request for querying work items associated with the current work item.

```
{
  "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.

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
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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})
    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](#).

4.6.20 Queries the associated Wikis associated with the current work item.

Function

Queries the associated Wikis associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-wikis

Table 4-367 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Work Item ID

Table 4-368 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-369 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-370 Response body parameters

Parameter	Type	Description
wikis	Array of AttachWikiDetail objects	Associated wiki list
total	Integer	Total

Table 4-371 AttachWikiDetail

Parameter	Type	Description
issue_id	Integer	Work Item ID
wiki_title	String	Wiki Title
wiki_author	SimpleUser object	User Information.

Parameter	Type	Description
project	SimpleProject object	Project Information.
created_date	String	Created
wiki_id	String	wiki ID
region	String	Indicates the region value.

Table 4-372 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Table 4-373 SimpleProject

Parameter	Type	Description
project_name	String	Project name
project_id	String	Project ID

Status code: 400**Table 4-374** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-375** Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

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": "cn-north-xxx"
  } ],
  "total": "success"
}
```

Status Codes

Status Code	Description
200	Ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.21 Queries the code submission records or branch creation records associated with the current work item.

Function

Queries the code submission records or branch creation records associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-commits

Table 4-376 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Work Item ID

Table 4-377 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Query type. The options are commit (submission record) and branch (branch record).
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-378 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-379 Response body parameters

Parameter	Type	Description
commits	Array of CommitRecordDetail objects	Submission Record List
total	Integer	Total

Table 4-380 CommitRecordDetail

Parameter	Type	Description
repository_id	String	Warehouse ID
branch_name	String	Branch Name
commit_id	String	commit id
commit_short_id	String	commit short id
commit_msg	String	Commit information
commit_url	String	commit URL
user	SimpleUser object	User Information.
type	String	Item type.
create_date	String	Created
update_date	String	Update time.

Table 4-381 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Status code: 400

Table 4-382 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-383** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-commits

GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/122344/associated-commits

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/xxx/commit/791877f7d0e0b2032bc5e38425c1245e804e8741?ref=master",
    "user": {
      "user_num_id": 4091,
      "user_id": "a360371833bf4c558f796fd707b44daf",
      "user_name": "demo_user_name_xiongzhitest001",
      "nick_name": "bear"
    },
    "type": "branch",
    "create_date": "2021-11-18 19:47:34",
    "update_date": "2021-11-18 19:47:34"
  } ],
  "total": "success"
}
```

Status Codes

Status Code	Description
200	Ok

Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.22 Querying Associated Cases

Function

This API is used to query associated cases.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associate-test-cases

Table 4-384 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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

Request Parameters

Table 4-385 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-386 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

Table 4-387 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.

Parameter	Type	Description
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.
type	String	Definition: Case type. Value range: TestCase (test case)

Table 4-388 SimpleUser

Parameter	Type	Description
nick_name	String	Definition: User alias, which is the value of nick_name in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
user_id	String	Definition: User UUID, which is the value of user_id in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A
user_name	String	Definition: Account name, which is the value of user_name in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A
user_num_id	Integer	Definition: Digital ID of a user, which is the value of user_num_id in the list of members in a specified project returned by calling the API for obtaining the member list of a specified project. Constraints: N/A Value range: N/A Default value: N/A

Table 4-389 SimpleProject

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 project list. Constraints: Regular expression: [A-Za-z0-9]{32} Default value: N/A
project_name	String	Definition: Project name. Options: N/A

Table 4-390 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 4-391** Response body parameters

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

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

Status code: 401

Table 4-392 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/a360371833bf4c558f796fd707b44daf/issues/1234/associate-test-cases

Example Responses

Status code: 200

ok

```
{
  "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",
    "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) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            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().  
        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](#).

4.6.23 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](#).

URI

POST /v4/projects/{project_id}/issues/custom-fields

Table 4-393 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-394 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-395 Request body parameters

Parameter	Mandatory	Type	Description
custom_fields	No	Array of strings	Definition: Custom field. Constraints: N/A
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 4-396 Response body parameters

Parameter	Type	Description
datas	Array of IssueCustomField objects	Definition: Return data of custom fields. Constraints: N/A

Table 4-397 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 supported by custom fields. Options: 2 (task) 3 (bug) 5 (epic) 6 (feature) 7 (story)

Parameter	Type	Description
type	String	Definition: Custom field 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: 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.

Status code: 400**Table 4-398** Response body parameters

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

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

Status code: 401

Table 4-399 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/0792b7d26cb74bd799cbae80063dc74a/issues/custom-fields
{
  "included_not_in_use" : true,
  "names" : [ "Drop-down list demo" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "datas" : [ {
    "name" : "selectName",
    "custom_field" : "custom_field16",
    "options" : "selectName1,selectName2",
    "type" : "ratio",
    "tracker_ids" : [ 7 ],
    "create_time" : "2023-05-17T09:50:04+08:00"
  } ]
}
```

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());
        }
    }
}
```

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()

    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](#).

4.6.24 Downloading an Image

Function

Downloads an image.

URI

GET /v4/projects/{project_id}/image-file

Table 4-400 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	32-bit ID of a DevCloud project

Table 4-401 Query Parameters

Parameter	Mandatory	Type	Description
image_uri	Yes	String	Image URI

Request Parameters

Table 4-402 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 4-403 Response body parameters

Parameter	Type	Description
-	File	Binary file

Status code: 400

Table 4-404 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-405 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Get https://{endpoint}/v4/projects/2c42a6d37ccc4197bf0b3dbe91be021a/image-file?image_uri=/v1/upload/2c42a6d37ccc4197bf0b3dbe91be021a/202209/1662003438194761550.png

Example Responses

None

Status Codes

Status Code	Description
200	Binary file
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.25 Uploading an Attachment to a Work Item

Function

Uploads an attachment to a work item.

URI

POST /v4/projects/{project_id}/issues/{issue_id}/attachments/upload

Table 4-406 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
issue_id	Yes	String	Work item ID

Request Parameters

Table 4-407 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Table 4-408 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	Attachment file. The maximum size is 50 MB.

Response Parameters

Status code: 200

Table 4-409 Response body parameters

Parameter	Type	Description
id	Integer	ID of the associated work item
issue_id	Integer	Work item ID
project_id	String	Project ID
disk_filename	String	Storage name on cloud disks
file_name	String	File name
size	String	File size

Status code: 400

Table 4-410 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-411 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/attachments/upload`

Example Responses

Status code: 200

```
{
  "id" : "1234",
  "issue_id" : "1232",
  "project_id" : "2c42a6d37ccc4197bf0b3dbe91be021a",
  "disk_filename" : "adfadsfasdfa.jpg",
  "file_name" : "demo.jpg",
  "size" : "1233"
}
```

Status Codes

Status Code	Description
200	Ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.26 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](#).

URI

GET /v4/projects/{project_id}/work-hours-type

Table 4-412 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-413 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

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Page index. Constraints: The offset is an integer multiple of limit . Options: Minimum value: 0 . Default value: 0
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 4-414 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200**Table 4-415** 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 4-416 WorkHoursType

Parameter	Type	Description
id	Integer	Definition: Work type ID. Value range: N/A
name	String	Definition: Work type name. Value range: N/A
status	Integer	Definition: Work type status. Value range: 0: The work type is deleted. 1: The work type is valid. 2: The work type is discarded.

Status code: 400**Table 4-417** 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 4-418 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

Example Requests

Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours-type

Example Responses

Status code: 200

ok

```
{
  "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
  }, {
    "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();
            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.getenv("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).
        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](#).

4.6.27 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](#).

URI

GET /v4/projects/{project_id}/issues/{issue_id}/attachments/{attachment_id}

Table 4-419 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} 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

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: Regular expression: [1-9][0-9]{0,10} Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-420 Response body parameters

Parameter	Type	Description
-	File	Downloaded work item attachment.

Status code: 400

Table 4-421 Response body parameters

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

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

Status code: 401

Table 4-422 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/f7a67aee4c034fd6944fd5f769e89042/issues/5667740/attachments/72372

Example Responses

Status code: 400

Bad Request

```
{
  "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 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
    # 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")

    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{
        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](#).

4.6.28 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](#).

URI

GET /v3/projects/{project_uuid}/issues/{issue_id}/history-permission

Table 4-423 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: Regular expression: <code>^[A-Za-z0-9]{32}\$</code> 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

Request Parameters

Table 4-424 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

Table 4-425 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 4-426 result

Parameter	Type	Description
is_history_process or	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/381fcc9c056482d92da3e8b9da71db5/issues/69813204/history-permission
```

Example Responses

Status code: 200

Response to a successful request for checking whether the current user has the permission to set workloads.

```
{  
  "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](#).

4.6.29 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](#).

URI

GET /v3/projects/{project_uuid}/issues/{issue_id}/work-hours

Table 4-427 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

Request Parameters

Table 4-428 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

Table 4-429 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 4-430 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 4-431 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

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_timest amp	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/381fcc9c056482d92da3e8b9da71db5/issues/69813204/work-hours

Example Responses

Status code: 200

Response to a successful request for querying work item workloads.

```
{
  "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.

Error Codes

See [Error Codes](#).

4.6.30 Adding Work Item Workloads (V3)

Function

This API is used to add work item workloads.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/projects/{project_uuid}/issues/{issue_id}/work-hours

Table 4-432 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

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 4-433 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

Table 4-434 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

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

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 4-435 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 4-436 result

Parameter	Type	Description
list	Array of list objects	Definition: Workload record list.

Table 4-437 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_timest amp	String	Definition: Working time in timestamp format, for example, 1839340800000 . Value range: N/A

Parameter	Type	Description
work_hours	String	Definition: Workloads (unit: person-hour). Constraints: N/A Value range: N/A Default value: N/A
region	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A

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

Response to a successful request for adding work item workloads.

```
{
  "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](#).

4.6.31 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](#).

URI

POST /v2/issues/child-issue-list

Request Parameters

Table 4-438 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

Table 4-439 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

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

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 4-440 Response body parameters

Parameter	Type	Description
result	result object	Definition: Response result.
status	String	Definition: Response status.

Table 4-441 result

Parameter	Type	Description
total_count	Integer	Definition: Total number of child work items. Value range: N/A

Parameter	Type	Description
issues	Array of issues objects	Definition: Work item list information. Value range: N/A

Table 4-442 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 .

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

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). Constraints: N/A
is_watcher	Boolean	Definition: Whether the user has favorited the work item. Value range: true: The user has favorited the work item. false: The user has not favorited the work item.

Parameter	Type	Description
deleted	Boolean	Definition: Whether the work item has been deleted. Value range: true: deleted false: not deleted
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
closer	Object	Definition: Person who closes a work item. Value range: N/A

Parameter	Type	Description
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
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 4-443 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 4-444 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 4-445 Tracker

Parameter	Type	Description
name	String	Definition: Type name. Value range: Task Bug Epic Feature Story

Parameter	Type	Description
id	Integer	Definition: Type ID. Value range: 2 (task) 3 (bug) 5 (epic) 6 (feature) 7 (story)

Table 4-446 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 4-447 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 4-448 Severity

Parameter	Type	Description
name	String	Definition: Work item severity ID. Value range: Critical Major Minor Information
id	Integer	Definition: Severity ID. Value range: 10: critical 11: major 12: minor 13: information

Table 4-449 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

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 4-450 Priority

Parameter	Type	Description
name	String	Definition: Work item priority. Value range: Low Medium High
id	Integer	Definition: Priority ID. Value range: 1: low 2: medium 3: high

Table 4-451 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 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

Response to a successful request for querying the child work item list.

```
{
  "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  
  },  
  "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.

Error Codes

See [Error Codes](#).

4.6.32 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](#).

URI

GET /v2/issues/get-comments

Table 4-452 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

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

Request Parameters

Table 4-453 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**Table 4-454** Response body parameters

Parameter	Type	Description
result	result object	Definition: Result of querying comments on a work item.
status	String	Definition: Returned status.

Table 4-455 result

Parameter	Type	Description
comments	Array of comments objects	Definition: List of comments on a work item.

Parameter	Type	Description
journals_total	Integer	Definition: Total number of comments. Value range: N/A

Table 4-456 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 4-457 IssueUserVO

Parameter	Type	Description
first_name	String	Definition: Username. Value range: N/A

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_uuld=af2d9ea776204a4395e238dd156b2ca9&limit=10&offset=0&type=scrum&_
1753348089805
```

Example Responses

Status code: 200

Response to a successful request for obtaining comments on a work item.

```
{
  "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,
  "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](#).

4.6.33 Obtaining the Operation History (V2)

Function

This API is used to obtain the operation history (V2).

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/issues/get-record

Table 4-458 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

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

Response Parameters

Status code: 200

Table 4-459 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result.
status	String	Definition: Returned status. Value range: success and error

Table 4-460 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

Table 4-461 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 4-462 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

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 4-463 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

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

Response to a successful request for obtaining the operation history.

```
{
  "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",
"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>&nbsp;</p>",
    "name" : "description",
    "operation" : "Create"
  } ]
}
```

```
}, {
  "id" : 11248512,
  "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": [ {
      "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](#).

4.6.34 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](#).

URI

GET /v2/issues/query-tags

Table 4-464 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

Parameter	Mandatory	Type	Description
name	No	String	Definition: Tag name. 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

Request Parameters

Table 4-465 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**Table 4-466** 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 4-467 result

Parameter	Type	Description
tags	Array of tags objects	Definition: Tag.

Table 4-468 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

Example Requests

{endpoint}/v2/issues/query-tags?project_uuid=5192de5eb435430c8cd41c6ae6028848&_=1753183910332

Example Responses

Status code: 200

Response to a successful request for querying all tags of a work item.

```
{
  "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](#).

4.6.35 Querying Transaction Details (V2)

Function

This API is used to query transaction details (V2).

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/issues/show

Table 4-469 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

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
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 4-470 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: Mandatory. Value range: Minimum length: 10 characters. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200**Table 4-471** Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned information.
status	String	Definition: Returned status.

Table 4-472 result

Parameter	Type	Description
issue	IssueDetailResponseV2 object	Definition: Whether a custom status name is duplicate. Value range: true (duplicate) false (not duplicate)

Table 4-473 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.

Parameter	Type	Description
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.
story_point	story_point object	Definition: Story point information of a work item.
module	module object	Definition: Module of a work item.

Parameter	Type	Description
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.
updated_on	String	Definition: Last update time of a work item, in timestamp format, for example, 1754374102000 . Value range: N/A

Parameter	Type	Description
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 4-474 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

Parameter	Type	Description
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 4-475 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 4-476 IssueDetailCustomFieldV2

Parameter	Type	Description
custom_field	String	Definition: Custom field. Value range: N/A

Parameter	Type	Description
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 4-477 domain

Parameter	Type	Description
id	Integer	Definition: Domain ID. Value range: N/A
name	String	Definition: Domain name. Value range: N/A

Table 4-478 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 4-479 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 4-480 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 4-481 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 4-482 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 4-483 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 4-484 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 4-485 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 4-486 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 4-487 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 4-488 IssueAccessoryV2

Parameter	Type	Description
attachment_id	Integer	Definition: Attachment ID. Value range: N/A

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

Parameter	Type	Description
creator_id	String	Definition: UUID of the attachment uploader. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/issues/show?
project_uuld=d00fd603ddf64115939e7d3609d6cb05&issue_id=69792725&include=children,parent&_=175315
6521643
```

Example Responses

Status code: 200

Response to a successful request for querying transaction details.

```
{
  "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><br></p><p style='padding-top: 5.0px;'><span style='font-weight: bold;'> I want </
span><to do something></p><br></p><p style='padding-top: 5.0px;'><span style='font-weight:
bold;'> so as to </span><do something>&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",
  "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](#).

4.6.36 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](#).

URI

POST /v2/issues/update-issue-notes

Request Parameters

Table 4-489 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

Table 4-490 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

Parameter	Mandatory	Type	Description
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
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 4-491 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned information.
status	String	Definition: Returned status.

Table 4-492 result

Parameter	Type	Description
issue	IssueDetailResponseV2 object	Definition: Whether a custom status name is duplicate. Value range: true (duplicate) false (not duplicate)

Table 4-493 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

Parameter	Type	Description
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
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

Parameter	Type	Description
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.
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).

Parameter	Type	Description
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.
inner_text	String	Definition: Updated comments on a work item. Value range: N/A

Table 4-494 UserVO

Parameter	Type	Description
assigned_nick_name	String	Definition: User alias. Value range: N/A
first_name	String	Definition: Username. Value range: N/A

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 4-495 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 4-496 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 4-497 domain

Parameter	Type	Description
id	Integer	Definition: Domain ID. Value range: N/A

Parameter	Type	Description
name	String	Definition: Domain name. Value range: N/A

Table 4-498 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 4-499 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 4-500 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 4-501 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 4-502 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 4-503 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 4-504 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 4-505 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 4-506 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 4-507 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 4-508 IssueAccessoryV2

Parameter	Type	Description
attachment_id	Integer	Definition: Attachment ID. Value range: N/A

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

Parameter	Type	Description
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

Response to a successful request for adding a comment to a work item.

```
{
  "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"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for adding a comment to a work item.

Error Codes

See [Error Codes](#).

4.6.37 Favoriting a Work Item

Function

This API is used to favorite a work item.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/issues/watch

Request Parameters

Table 4-509 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-510 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

Parameter	Mandatory	Type	Description
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

Response Parameters

Status code: 200

Table 4-511 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 4-512 result

Parameter	Type	Description
watcher	watcher object	Definition: Structure of a favorited work item.

Table 4-513 watcher

Parameter	Type	Description
id	Integer	Definition: Unique ID of the current favoriting record. Value 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. Value range: N/A
user_id	Integer	Definition: User ID of a favoriter. Value 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

Response body of the current request.

```
{
  "result" : {
    "watcher" : {
```

```
{
  "id" : 226991,
  "watchable_type" : "Issue",
  "watchable_id" : 9192160,
  "user_id" : 4091,
  "region" : "example"
},
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body of the current request.

Error Codes

See [Error Codes](#).

4.6.38 Querying Custom Field Values

Function

This API is used to query custom field values.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/custom-field/query-custom-field

Table 4-514 Query 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 API for querying the project list. Constraints: N/A 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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-515 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 4-516 result

Parameter	Type	Description
custom_field	Array of custom_field objects	Definition: List of custom fields.

Table 4-517 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. Value range: N/A

Parameter	Type	Description
project_id	Integer	Definition: ID of the project to which the custom field belongs. Value range: N/A
tracker_id	Integer	Definition: Type ID of the work item to which a custom field belongs. Value 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

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

Example Requests

```
GET https://{endpoint}/v2/custom-field/query-custom-field?
project_id=5192de5eb435430c8cd41c6ae6028848&tracker_id=3
```

Example Responses

Status code: 200
OK (The request has succeeded).

```
{
  "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 Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See [Error Codes](#).

4.6.39 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](#).

URI

GET /v2/module/module-name-validation

Table 4-518 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

Parameter	Mandatory	Type	Description
module_name	No	String	Definition: Module name. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-519 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

Table 4-520 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result object.

Parameter	Type	Description
status	String	Definition: Returned status of a project. Value range: success: successful error: failed

Table 4-521 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

Response to a successful request for checking whether the module name is duplicate.

```
{
  "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](#).

4.6.40 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](#).

URI

POST /v2/module/modules

Request Parameters

Table 4-522 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

Table 4-523 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
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

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
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 4-524 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result.

Parameter	Type	Description
status	String	Definition: Result status. Value range: N/A

Table 4-525 result

Parameter	Type	Description
module	module object	Definition: Detailed information about a module.

Table 4-526 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

Parameter	Type	Description
path_name	String	Definition: Name of a module path. Value range: N/A

Table 4-527 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
identifier	String	Definition: Owner ID. Value range: N/A
nick_name	String	Definition: Owner alias. Value range: N/A

Table 4-528 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

Parameter	Type	Description
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" : ""
}
```

Example Responses

Status code: 200

Response to a successful request for adding a custom work item template.

```
{
  "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](#).

4.6.41 Querying Module Settings

Function

This API is used to query module settings.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/module/modules

Table 4-529 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

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
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

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 .
search	No	String	Definition: Query index set for the module. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-530 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

Table 4-531 Response body parameters

Parameter	Type	Description
result	result object	Definition: returned result.
status	String	Definition: Returned status. Value range: N/A

Table 4-532 result

Parameter	Type	Description
total_count	Integer	Definition: Number of modules. Value range: N/A

Parameter	Type	Description
modules	Array of modules objects	Definition: Modules.

Table 4-533 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.
depth	Integer	Definition: Parent-child relationship of a module. Value range: N/A
path	String	Definition: Path of a module. Value range: N/A

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 4-534 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

Response to a successful request for querying model settings.

```
{  
  "result" : {
```

```
"total_count" : 5,
"modules" : [ {
  "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
  },
  "depth" : 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
  },
  "depth" : 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
  },
  "depth" : 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
},
{
  "depth" : 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
  },
  "depth" : 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](#).

4.6.42 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](#).

URI

GET /v2/project-template/name-validation

Table 4-535 Query Parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Template name. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-536 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

Table 4-537 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result.
status	String	Definition: Returned status. Value range: N/A

Table 4-538 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&_id=1753237057613
```

Example Responses

Status code: 200

Response to a successful request for checking whether a template can be saved.

```
{  
  "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](#).

4.6.43 Saving a Project Template

Function

This API is used to save a project template.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/project-template/template

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: Mandatory. Value range: Minimum length: 10 characters. Maximum length: 32,768 characters. Default value: N/A

Table 4-540 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

Table 4-541 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result.
status	String	Definition: Returned status. Value range: N/A

Table 4-542 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

Response to a successful request for saving a project template.

```
{
  "result" : {
```

```
{
  "id" : 384846,
  "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](#).

4.6.44 Deleting Work Items in Batches

Function

This API is used to delete work items in batches.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/workitem/batch-delete

Request Parameters

Table 4-543 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

Table 4-544 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

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 4-545 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: Returned status. Value range: success: The deletion is successful. error: The deletion failed.

Table 4-546 result

Parameter	Type	Description
delete_issue	delete_issue object	Definition: Deleted work item. Value range: N/A

Table 4-547 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 4-548 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)

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

```
{endpoint}/v2/workitem/batch-delete?_=1753261560409  
{
```

```
"project_id" : "5192de5eb435430c8cd41c6ae6028848",  
"issue_ids" : "9190894,9179013"  
}
```

Example Responses

Status code: 200

Response to a successful request for deleting work items in batches.

```
{  
  "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](#).

4.6.45 Batch Editing Work Items (V2)

Function

This API is used to edit work items in batches.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/workitem/issues

Request Parameters

Table 4-549 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

Table 4-550 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

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

Table 4-551 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 4-552 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

Table 4-553 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

Example Requests

```
POST https://{endpoint}/v2/workitem/issues
{
  "assigned_to_id" : "4091",
  "issue_ids" : "9191020",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848"
}
```

Example Responses

Status code: 200

Response to a successful request for editing work items in batches.

```
{
  "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](#).

4.6.46 Querying Associated Work Items (V2)

Function

This API is used to query associated work item information (V2).

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/issues/inquire-associate

Table 4-554 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
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

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

Request Parameters

Table 4-555 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

Table 4-556 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result.
status	String	Definition: Returned status. Value range: success and error

Table 4-557 result

Parameter	Type	Description
associateIssues	AssociateIssues object	Definition: Associated project sub-object.

Table 4-558 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 4-559 IssuesAssociate

Parameter	Type	Description
identifier	String	Definition: UUID of the project to which the associated work item belongs. Value range: N/A

Parameter	Type	Description
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
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

Parameter	Type	Description
assigned_to	AssignedAssociate object	Definition: Current owner of the associated work item.

Table 4-560 AssignedAssociate

Parameter	Type	Description
assigned_user_num_id	Integer	Definition: Digital ID of a user. Value range: N/A
assigned_nickname	String	Definition: User alias. Value range: N/A
name	String	Definition: Username with tenant information. Value range: N/A
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

Response to a successful request for querying an associated work item.

```
{
  "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,
        "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](#).

4.6.47 Deleting a Work Item

Function

This API is used to delete a work item.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/issue/delete

Request Parameters

Table 4-561 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

Table 4-562 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

Table 4-563 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

Parameter	Mandatory	Type	Description
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

Response Parameters

Status code: 200

Table 4-564 Response body parameters

Parameter	Type	Description
result	result object	Definition: Returned result. Value range: N/A

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

Table 4-565 result

Parameter	Type	Description
deleted_issues	Array of deleted_issues objects	Definition: Deleted work item. Value range: N/A
delete_attachments_files	Array of strings	Definition: Deleted attachment. Value range: N/A
issues	Array of issues objects	Definition: Work item. Value range: N/A

Table 4-566 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

Parameter	Type	Description
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
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)

Parameter	Type	Description
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
developer	Object	Definition: Developer. Value range: N/A
closer	Object	Definition: Project closure personnel. Value range: N/A
fixed_version	Object	Definition: Fixed version. Value range: N/A

Parameter	Type	Description
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
find_release_dev	String	Definition: Releaser. Value range: N/A
assigned_cc_user	Array of strings	Definition: Cc recipient. Value range: N/A

Parameter	Type	Description
has_attachments	Boolean	Definition: Whether there is an attachment. Value range: true (with attachments) false (no attachments)

Table 4-567 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_nickname	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

Parameter	Type	Description
id	Integer	Definition: User ID. Value range: N/A

Table 4-568 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 4-569 Tracker

Parameter	Type	Description
name	String	Definition: Type name. Value range: Task Bug Epic Feature Story

Parameter	Type	Description
id	Integer	Definition: Type ID. Value range: 2 (task) 3 (bug) 5 (epic) 6 (feature) 7 (story)

Table 4-570 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 4-571 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 4-572 Priority

Parameter	Type	Description
name	String	Definition: Work item priority. Value range: Low Medium High
id	Integer	Definition: Priority ID. Value range: 1: low 2: medium 3: high

Table 4-573 IssueAssignedVO

Parameter	Type	Description
first_name	String	Definition: Username. Value range: N/A

Parameter	Type	Description
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
id	Integer	Definition: Digital ID of a user. Value range: N/A

Table 4-574 Severity

Parameter	Type	Description
name	String	Definition: Work item severity ID. Value range: Critical Major Minor Information

Parameter	Type	Description
id	Integer	Definition: Severity ID. Value range: 10: critical 11: major 12: minor 13: information

Table 4-575 Order

Parameter	Type	Description
name	Integer	Definition: Sorting name. Value range: N/A
id	Integer	Definition: Order ID. Value range: N/A

Table 4-576 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 4-577 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": {
    "project_id": "5192de5eb435430c8cd41c6ae6028848",
    "issue_id": "9186305",
    "type": "scrum"
  },
  "type": "deleteIssue"
}
```

Example Responses

Status code: 200

Response to a successful request for deleting a work item API.

```
{
  "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" : { },
"closer" : { },
"fixed_version" : { },
"severity" : {
  "name" : "Minor",
  "id" : 12
},
"order" : {
  "name" : 1,
  "id" : 1
},
"domain" : { },
"module" : { },
"story_point" : {
  "id" : 3,
  "name" : "1"
},
"release_dev" : "",
"find_release_dev" : "",
"assigned_cc_user" : [ ],
"has_attachments" : 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](#).

4.6.48 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](#).

URI

GET /v3/workitem/scrum/index-count

Table 4-578 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

Request Parameters

Table 4-579 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

Table 4-580 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 4-581 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

Response to a successful request for querying the numbers of work item metrics on the details page.

```
{
  "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](#).

4.6.49 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.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v4/{project_id}/scrum-issue-tree-count

Table 4-582 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

Request Parameters

Table 4-583 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

Table 4-584 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
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

Parameter	Mandatory	Type	Description
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 4-585 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 4-586 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

Response to a successful request for querying the total number of work items using filter criteria in tree mode.

```
{
  "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.

Error Codes

See [Error Codes](#).

4.6.50 Querying the Work Type List (V5)

Function

This API is used to query the work type list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/projects/{project_uuid}/work-hours-type

Table 4-587 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 4-588 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

Request Parameters

Table 4-589 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**Table 4-590** 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 4-591 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 4-592 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

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

Response to a successful request for querying the workload type list.

```
{
  "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"
}
```

Status Codes

Status Code	Description
200	Response to a successful request for querying the workload type list.

Error Codes

See [Error Codes](#).

4.7 Iteration of the Scrum Project

4.7.1 Obtaining Sprints of a Specified Project

Function

This API is used to obtain sprints of a project.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/iterations

Table 4-593 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-594 Query Parameters

Parameter	Mandatory	Type	Description
updated_time_interval	No	String	Definition: Sprint update duration (start and end time). Constraints: Regular expression: ([1-9][0-9]{0,12})?(,)?([1-9][0-9]{0,12})? Options: N/A Default value: N/A

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 4-595 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-596 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 4-597 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. Options: N/A
name	String	Definition: Sprint title. Options: N/A

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 4-598** 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 4-599** Response body parameters

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

Parameter	Type	Description
error_msg	String	Definition: Error description. Value 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

OK

```
{
  "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.*;

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)
    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.

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.7.2 Deleting Iterations of Projects in Batches

Function

Deleting Iterations of Projects in Batches

URI

DELETE /v4/projects/{project_id}/iterations

Table 4-600 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-601 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Table 4-602 Request body parameters

Parameter	Mandatory	Type	Description
iteration_ids	Yes	Array of integers	Iteration ID. Array Length: 1 - 10

Response Parameters

Status code: 400

Table 4-603 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-604 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Delete https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iterations

```
{  
  "iteration_ids" : [ 11302238, 11470756 ]  
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.7.3 Viewing Sprint Details

Function

This API is used to view sprint details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/iterations/{iteration_id}

Table 4-605 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: Regular expression: \d+ Options: Minimum value: 0. Default value: N/A

Request Parameters

Table 4-606 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200**Table 4-607** 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

Parameter	Type	Description
created_time	String	Definition: Sprint creation time. Options: N/A
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. Options: 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

Parameter	Type	Description
total	Integer	Definition: Total number of tickets. Options: N/A
updated_time	String	Definition: Sprint update time. Options: N/A

Table 4-608 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. Options: N/A
project_num_id	Integer	Definition: Project ID. Options: 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**Table 4-609** 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 4-610** 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/iterations/11225793

Example Responses**Status code: 200**

OK

```
{
  "begin_time": "2020-07-12",
  "charts": [ {
    "date": "2020-09-12",
    "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.getStatusCode());
            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()  
  
    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](#).

4.7.4 Creating a Scrum Project Sprint

Function

This API is used to create a Scrum project sprint.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v4/projects/{project_id}/iteration

Table 4-611 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-612 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-613 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	Definition: Start time: YYYY-MM-DD. Constraints: Regular expression: [1-9]\d{3}-(0?[1-9] 1[0-2])-(0[1-9] [1-2][0-9] 3[0-1]) Options: 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: Sprint description. Constraints: This field can be left blank. Options: Minimum length: 0 characters. Maximum length: 500 characters. Default value: N/A

Parameter	Mandatory	Type	Description
end_time	Yes	String	Definition: End time: YYYY-MM-DD. Constraints: Regular expression: [1-9]\d{3}-(0?[1-9] 1[0-2])-(0[1-9] [1-2][0-9] 3[0-1]) Options: 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

Table 4-614 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Sprint ID. Options: N/A

Status code: 400

Table 4-615 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 4-616** 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/iteration

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

Example Responses**Status code: 201**

OK

```
{  
  "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);

        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.getErrMsg());
        }
    }
}
```

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)
        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.

Status Codes

Status Code	Description
201	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.7.5 Updating Sprints of a Scrum Project

Function

This API is used to update Scrum project sprints.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v4/projects/{project_id}/iterations/{iteration_id}

Table 4-617 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: Regular expression: \d+ Options: Minimum value: 0. Default value: N/A
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-618 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	Definition: Start time: YYYY-MM-DD. Constraints: Regular expression: [1-9]\d{3}-(0?[1-9] 1[0-2])-(0[1-9] [1-2][0-9] 3[0-1]) Options: N/A Default value: N/A
description	No	String	Definition: Description. Constraints: Maximum: 50,000 characters. Options: N/A Default value: N/A
end_time	Yes	String	Definition: End time: YYYY-MM-DD. Constraints: Regular expression: [1-9]\d{3}-(0?[1-9] 1[0-2])-(0[1-9] [1-2][0-9] 3[0-1]) Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
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
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

No Content

Status code: 400

Table 4-619 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 4-620** 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

```
Put https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11225793
{
  "end_time" : "2018-07-05",
  "name" : "sttes32s3",
  "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 UpdateliterationV4Solution {

    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();
        UpdateliterationV4Request request = new UpdateliterationV4Request();
        request.withProjectId("{project_id}");
        request.withIterationId({iteration_id});
        UpdateliterationRequestV4 body = new UpdateliterationRequestV4();
        body.withName("sttes32s3");
        body.withEndTime("2018-07-05");
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        request.withBody(body);
        try {
            UpdateliterationV4Response response = client.updateliterationV4(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.getErrMsg());
        }
    }
}
```

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 = UpdateIterationV4Request()
        request.project_id = "{project_id}"
        request.iteration_id = {iteration_id}
        request.body = UpdateIterationRequestV4(
            name="sttes32s3",
            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: "sttes32s3",
    EndTime: "2018-07-05",
    Description: &descriptionUpdateIterationRequestV4,
    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](#).

4.7.6 Deleting Sprints of a Project

Function

This API is used to delete project sprints.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v4/projects/{project_id}/iterations/{iteration_id}

Table 4-621 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: Regular expression: \d+ Options: Minimum value: 0. Default value: N/A
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 204

No Content

Status code: 400

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

Status code: 401**Table 4-623** 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

```
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 DeleteliterationV4Solution {

    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();
        DeleteliterationV4Request request = new DeleteliterationV4Request();
        request.withProjectId("{project_id}");
        request.withIterationId({iteration_id});
        try {
            DeleteliterationV4Response response = client.deleteliterationV4(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.getStatusCode());
            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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
```

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

try:
    request = DeleteliterationV4Request()
    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
    }

    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.DeleteliterationV4Request{}
    request.ProjectId = "{project_id}"
    request.IterationId = int32({iteration_id})
    response, err := client.DeleteliterationV4(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](#).

4.7.7 Viewing Sprint History (Discarded)

Function

This API is used to view sprint history. (It refers to viewing historical sprint records, not the sprint history function on the page. This function has been discarded.)

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/iterations/{iteration_id}/histories

Table 4-624 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: Regular expression: \d+ Options: Minimum value: 0 . Default value: N/A

Table 4-625 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset. Constraints: N/A Options: Minimum value: 0 . Default value: 0
limit	No	Integer	Definition: Number of data records on each page. Constraints: N/A Options: Minimum value: 1 . Maximum value: 100 . Default value: 10

Request Parameters

Table 4-626 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-627 Response body parameters

Parameter	Type	Description
histories	Array of IterationHistory objects	Definition: History records.
total	Integer	Definition: Total number. Options: N/A

Table 4-628 IterationHistory

Parameter	Type	Description
details	Array of details objects	Definition: Operation details.

Parameter	Type	Description
iteration_id	String	Definition: Sprint ID. Options: N/A
operate	String	Definition: Operation type. Options: Create Modify Delete
operate_time	String	Definition: Operation time. Options: N/A
operator	operator object	Definition: Change operator.
project_id	String	Definition: Project ID. Options: N/A

Table 4-629 details

Parameter	Type	Description
new_value	String	Definition: Value after operation. Options: N/A
old_value	String	Definition: Value before operation. Options: N/A
operate_field_name	String	Definition: Modified field. Options: N/A

Table 4-630 operator

Parameter	Type	Description
domain_id	String	Definition: Tenant UUID. Options: N/A
domain_name	String	Definition: Tenant name. Options: N/A
nick_name	String	Definition: Alias. Options: N/A
user_id	String	Definition: User UUID. Options: N/A
user_name	String	Definition: Username. Options: N/A

Status code: 400

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

Status code: 401

Table 4-632 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/iterations/11225793/histories

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "histories" : [ {
    "iteration_id" : 123454,
    "project_id" : "19274e1adffb4cc0b866ef6dd3ad0100",
    "operator" : {
      "user_id" : "0a938608ac00f2271f2ec01cccb94c19",
      "user_name" : "Banna",
      "nick_name" : "Red Sea",
      "domain_id" : "9b33eb1d219140fea54d3b5ac689b073",
      "domain_name" : "devcloud_test"
    },
    "operate" : "NEW",
    "operate_time" : "1665473746000",
    "details" : [ {
      "operate_field_name" : "name",
      "old_value" : null,
      "new_value" : "test"
    }, {
      "operate_field_name" : "description",
      "old_value" : null,
      "new_value" : null
    }, {
      "operate_field_name" : "end_time",
      "old_value" : null,
      "new_value" : "1664380800000"
    }, {
      "operate_field_name" : "status",
      "old_value" : null,
      "new_value" : "0"
    }, {
      "operate_field_name" : "begin_time",
      "old_value" : null,
```

```
"new_value" : "1663776000000"
}, {
  "operate_field_name" : "program_version_id",
  "old_value" : null,
  "new_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 ListIterationHistoriesSolution {

    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();
        ListIterationHistoriesRequest request = new ListIterationHistoriesRequest();
        request.withIterationId({iteration_id});
        try {
            ListIterationHistoriesResponse response = client.listIterationHistories(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.getStatusCode());
            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 = ListIterationHistoriesRequest()
        request.iteration_id = {iteration_id}
        response = client.list_iteration_histories(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.ListIterationHistoriesRequest{}
request.IterationId = int32({iteration_id})
response, err := client.ListIterationHistories(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](#).

4.7.8 Creating a Sprint (V2)

Function

This API is used to create a sprint.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/version/create-version

Request Parameters

Table 4-633 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-634 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

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: 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: N/A Value 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

Table 4-635 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 4-636 result

Parameter	Type	Description
version	version object	Definition: Version information of the created sprint.

Table 4-637 version

Parameter	Type	Description
id	Integer	Definition: Unique ID of the created sprint. Value range: N/A
project_num_id	Integer	Definition: Unique ID of the project associated with the current sprint. Value range: N/A
project_id	String	Definition: Unique ID of the project to which the current sprint belongs. Value range: N/A
name	String	Definition: Name of the created sprint. Value range: N/A

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

```
{endpoint}/v2/version/create-version?_=1753067241950
{
  "start_date" : 1752854400000,
  "due_date" : 1754064000000,
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "name" : "test"
}
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : {
```

```
{
  "version" : {
    "id" : 26664721,
    "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](#).

4.7.9 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](#).

URI

GET /v2/version/query-immovable-issues

Table 4-638 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 Value 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

Table 4-639 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. Value range: N/A
status_id	Integer	Definition: Status ID of the deleted sprint. Value 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

```
{endpoint}/v2/version/query-immovable-issues?  
project_id=ac73924a87d0455ca9b16b0ed15fe367&version_id=26658650
```

Example Responses

Status code: 200
OK (The request has succeeded).

```
{  
  "number" : 0,  
  "id" : "c42312e7f4b74810970a8201b0f96751",  
  "status_id" : 5,  
  "status_name" : "Closed"  
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See [Error Codes](#).

4.7.10 Updating a Sprint (V2)

Function

This API is used to update a sprint.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/version/update

Request Parameters

Table 4-640 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-641 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 Value 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

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 Value range: true: Synchronization is required. false: Synchronization is not required. Default value: N/A

Response Parameters

Status code: 200

Table 4-642 Response body parameters

Parameter	Type	Description
result	String	Definition: Returned result of changing the sprint name. Value range: N/A

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

OK (The request has succeeded).

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

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See [Error Codes](#).

4.7.11 Deleting a Sprint (V2)

Function

This API is used to delete a sprint.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/version/delete

Request Parameters

Table 4-643 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-644 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

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 Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-645 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"
}
```

Example Responses

Status code: 200

OK (The request has succeeded).

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

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See [Error Codes](#).

4.7.12 Querying the Sprint List

Function

This API is used to query the sprint list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v4/projects/{project_id}/versions

Table 4-646 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: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-647 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.

Table 4-648 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 4-649 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

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. Value range: N/A
done_ratio	Integer	Definition: Sprint progress, in percentage. Value range: N/A

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 4-650 status_option

Parameter	Type	Description
id	String	Definition: Sprint status ID. Value range: N/A
name	String	Definition: Sprint status name. Value range: N/A

Table 4-651 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. Value range: N/A

Table 4-652 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

```
{endpoint}/v4/projects/{5192de5eb435430c8cd41c6ae6028848}/versions
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "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" : [ ],
    "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"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See [Error Codes](#).

4.8 Modules of the Scrum Project

4.8.1 Module for Creating a Project

Function

Querying the Module List of a Project

URI

POST /v4/projects/{project_id}/module

Table 4-653 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-654 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Table 4-655 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
module_name	Yes	String	Module name
parent_module_id	No	Integer	Parent module ID.
owner	Yes	UserRequest object	User Information

Table 4-656 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID, which is a 32-digit character string.

Response Parameters

Status code: 200

Table 4-657 Response body parameters

Parameter	Type	Description
description	String	Description
module_name	String	Module name
module_id	Integer	Specifies the module ID.
owner	ModuleOwner object	User Information

Table 4-658 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

Status code: 400**Table 4-659** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-660** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post https://{endpoint}/v4/projects/0792b7d26cb74bd799cb8e80063dc74a/modules

```
{
  "description" : "module demo",
  "module_name" : "demo",
  "parent_module_id" : 1,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

Example Responses**Status code: 200**

OK

```
{
  "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" : "demo"
  }
}
```

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](#).

URI

GET /v4/projects/{project_id}/modules

Table 4-661 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-662 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Pagination index. The offset is an integer multiple of limit . Constraints: Minimum value: 0 . Value range: Minimum value: 0 . Maximum value: 10,000 . Default value: 0
limit	Yes	Integer	Definition: Number of records displayed on each page. Constraints: N/A Options: Minimum value: 1 . Maximum value: 1,000 . Default value: 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-663 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 4-664 ProjectModule

Parameter	Type	Description
children	Array of ProjectChildModule objects	Definition: Child module information.
depth	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. Options: N/A
module_name	String	Definition: Module name. Options: N/A
owner	ModuleOwner object	Definition: Module owner information.

Table 4-665 ProjectChildModule

Parameter	Type	Description
depth	Integer	Definition: Module level. Options: N/A

Parameter	Type	Description
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. Options: 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. Options: N/A

Table 4-666 ModuleOwner

Parameter	Type	Description
nick_name	String	Definition: User alias. Options: N/A
user_id	String	Definition: User ID. The value is a string of 32 characters. Options: N/A
user_name	String	Definition: Username. Options: N/A

Parameter	Type	Description
user_num_id	Integer	Definition: Digital ID of a user. Options: N/A

Status code: 400**Table 4-667** 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 4-668** 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/0792b7d26cb74bd799cbae80063dc74a/modules>

Example Responses

Status code: 200

OK

```
{
  "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"
    },
    "depth" : 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"
      },
      "depth" : 1,
      "is_parent" : true,
      "parent_module_id" : 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 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.getStatusCode());
    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 = 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)

    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 Module for Updating a Project

Function

Module for Updating a Project

URI

PUT /v4/projects/{project_id}/modules/{module_id}

Table 4-669 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
module_id	Yes	Integer	Specifies the module ID. Minimum: 32 Maximum: 32

Request Parameters

Table 4-670 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Table 4-671 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
module_name	Yes	String	Module

Parameter	Mandatory	Type	Description
owner	Yes	UserRequest object	User Information

Table 4-672 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID, which is a 32-digit character string.

Response Parameters

Status code: 200

Table 4-673 Response body parameters

Parameter	Type	Description
description	String	Description
module_name	String	Module name
module_id	Integer	Specifies the module ID.
owner	ModuleOwner object	User Information

Table 4-674 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

Status code: 400

Table 4-675 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-676** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/662086
{
  "description" : "module demo",
  "module_name" : "demo",
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "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"
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.8.4 Module for Deleting a Project

Function

Module for Deleting a Project

URI

DELETE /v4/projects/{project_id}/modules/{module_id}

Table 4-677 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
module_id	Yes	Integer	Specifies the module ID. Minimum: 32 Maximum: 32

Request Parameters

Table 4-678 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 400

Table 4-679 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-680 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354
```

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.9 Domain of a Scrum Project

4.9.1 Querying the Domain List (V2)

Function

This API is used to query the domain list (V2).

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/domain/domain

Table 4-681 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
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

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
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

Parameter	Mandatory	Type	Description
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 4-682 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

Table 4-683 Response body parameters

Parameter	Type	Description
-	String	Response to a successful request for setting a domain.

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

Table 4-684 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 4-685 domains

Parameter	Type	Description
id	Integer	Definition: Domain ID. Value range: N/A
name	String	Definition: Domain name. Value range: N/A

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

Response to a successful request for querying the domain list.

```
{  
  "result": {  
    "domains": [  
      {
```

```
"id": 14,
"name": "Performance",
"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,
},
"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](#).

4.9.2 Creating a Project Domain

Function

This API is used to query the project domain list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v4/projects/{project_id}/domain

Table 4-686 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-687 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Definition: Domain name. Constraints: Regular expression: ^[a-zA-Z0-9\u4E00-\u9FA5][a-zA-Z0-9\u4E00-\u9FA5-_{0,30}]\$ Options: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-688 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 4-689** 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 4-690** 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/0792b7d26cb74bd799cbae80063dc74a/domains
{
  "domain_name" : "demo"
}
```

Example Responses

Status code: 200

OK

```
{
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af",
  "domain_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 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);
        } catch (ServiceResponseException e) {
            // Handle exception
        }
    }
}
```

```
        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 = 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)

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](#).

4.9.3 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](#).

URI

GET /v4/projects/{project_id}/domains

Table 4-691 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Table 4-692 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Query offset. Constraints: N/A Options: Minimum value: 0 . Default value: N/A
limit	No	Integer	Definition: Data returned at a time. Constraints: N/A Options: Minimum value: 1 . Maximum value: 100 . Default value: N/A

Request Parameters

Table 4-693 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-694 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 4-695 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 4-696 Response body parameters

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

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

Status code: 401

Table 4-697 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/0792b7d26cb74bd799cbae80063dc74a/domains

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "domains" : [ {
    "domain_name" : "demo",
    "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af"
  } ]
}
```

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 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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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)
    } 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](#).

4.9.4 Updating a Project Domain

Function

This API is used to update the domain of a project.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v4/projects/{project_id}/domains/{domain_id}

Table 4-698 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value 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: Regular expression: [0-9a-z]{32} Options: Maximum: 32 characters. Default value: N/A

Request Parameters

Table 4-699 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Definition: Domain name. Constraints: Regular expression: ^[a-zA-Z0-9\u4E00-\u9FA5][a-zA-Z0-9\u4E00-\u9FA5-]{0,30}\$ Options: N/A Default value: N/A

Response Parameters

Status code: 200**Table 4-700** 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 4-701 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 4-702** 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

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/662086
{
  "domain_name" : "test"
}
```

Example Responses**Status code: 200**

OK

```
{
  "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)
            .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.getErrMsg());
        }
    }
}
```

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)
```

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.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.9.5 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](#).

URI

DELETE /v4/projects/{project_id}/domains/{domain_id}

Table 4-703 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value 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: Regular expression: [0-9a-z]{32} Options: Maximum: 32 characters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 204

No Content

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**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

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");

        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.getStatusCode());
            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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("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)
```

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.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.10 Scrum Project Statuses

4.10.1 Querying the Project Status List

Function

Queries the project status list.

URI

GET /v4/projects/{project_id}/statuses

Table 4-706 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	32-bit ID of a DevCloud project

Table 4-707 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Queries the offset. Default: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of data records returned at a time. The value ranges from 1 to 100. Minimum: 1 Maximum: 100 Default: 10
tracker_id	No	Integer	Work item types supported by custom fields: 2 indicates a task, 3 indicates a bug, 5 indicates an epic, 6 indicates a feature, and 7 indicates a story.

Request Parameters

Table 4-708 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 4-709 Response body parameters

Parameter	Type	Description
total	Integer	Total number of statuses
issue_statuses	Array of IssueStatus objects	Status list

Table 4-710 IssueStatus

Parameter	Type	Description
id	String	Status UUID

Parameter	Type	Description
status_id	Integer	Status ID
name	String	Status name
tracker_ids	Array of integers	List of associated work items
status_attribute	StatusAttribute object	Status attribute type. The value can be started, ongoing, and closed.

Table 4-711 StatusAttribute

Parameter	Type	Description
id	Integer	Status attribute ID
name	String	Status attribute name

Status code: 400**Table 4-712** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-713** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Get <https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/statuses>

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "issue_statuses" : [ {
    "id" : "123cefde62004de2b62b5e8dd2c2b3af",
    "status_id" : 1,
    "name" : "New",
    "tracker_ids" : [ 0 ],
    "status_attribute" : {
      "id" : 1,
      "name" : "string"
    }
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.10.2 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](#).

URI

GET /v2/issue-status/all

Table 4-714 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
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 4-715 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: Mandatory. Value range: Minimum length: 10 characters. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-716 Response body parameters

Parameter	Type	Description
result	result object	Work item status information.
status	String	Definition: Returned status. Constraints: success: The API is successfully called. error: The API call failed.

Table 4-717 result

Parameter	Type	Description
2	Array of IssueStatusV2 objects	Task status list.

Parameter	Type	Description
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 4-718 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
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)

Parameter	Type	Description
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
issue_status_attribute	IssueStatusAttribute object	Work item status.

Table 4-719 IssueFieldConfig

Parameter	Type	Description
custom	Boolean	Definition: Whether the status is custom. Value range: true (custom) false (not custom)

Parameter	Type	Description
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

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)

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)

Table 4-720 OptionVOV2

Parameter	Type	Description
id	String	Definition: Option ID. Options: N/A
name	String	Definition: Option name. Options: N/A

Table 4-721 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

Response to a successful request for querying all status of a transaction.

```
{
  "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"
  }
}],
"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,
  "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](#).

4.10.3 Plans of a Scrum Project

4.10.3.1 Querying a Plan

Function

This API is used to query a plan.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/plan/{project_id}/{plan_id}/info

Table 4-722 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

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

Request Parameters

Table 4-723 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

Table 4-724 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 4-725 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

Parameter	Type	Description
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
updated_on	String	Definition: Date when a work item is updated, in timestamp format, for example, 1839340800000 . Value range: N/A

Table 4-726 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

Parameter	Type	Description
first_name	String	Definition: Username. Value range: N/A

Table 4-727 updater

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

Example Requests

```
{endpoint}/v3/plan/381fcc9c056482d92da3e8b9da71db5/c573497c87414e97a29444c0054c1361/info
```

Example Responses

Status code: 200

Response to a successful request for querying a plan.

```
{
  "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.

Error Codes

See [Error Codes](#).

4.10.3.2 Deleting Plans in Batches

Function

This API is used to delete plans in batches.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v3/plan/{project_id}/management

Table 4-728 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-729 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

Table 4-730 Response body parameters

Parameter	Type	Description
status	String	Definition: API response status. Value range: success: successful error: failed

Example Requests

```
https://{endpoint}/v3/plan/e2da96a5d2c845e284f0ad47f8ca8cb1/management
[ "0579f0388ed84b00884a09c49862a229", "2a49ac3c37c14facacd2576c81b6bf01" ]
```

Example Responses

Status code: 200

Definition:

Returned success data in JSON format.

Options:

N/A

```
{
  "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>"))
            .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"
)

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](#).

4.10.3.3 Creating a Requirement Plan

Function

This API is used to create a requirement plan.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/plan/{project_id}/management

Table 4-731 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-732 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Group name. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
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 4-733 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 4-734 result

Parameter	Type	Description
id	String	Definition: Plan ID. Value range: N/A
name	String	Definition: Plan title. Value range: N/A

Parameter	Type	Description
type	String	Definition: Plan type. Value range: gantt (Gantt chart) mind (mind map)
project_id	String	Definition: Project ID. Value range: N/A
img_url	String	Definition: Address for storing images. Value range: N/A
creator	creator object	Definition: Creator information.

Table 4-735 creator

Parameter	Type	Description
user_id	String	Definition: User ID of the creator. Value range: N/A
domain_id	String	Definition: Tenant ID. Value 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

Creates a requirement plan response.

```
{
  "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;
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)

    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}"
    requestBody := "{name=test, type=ganttt}"
    request.Body = listBodyBody
    response, err := client.CreateScrumPlanToProject(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	Creates a requirement plan response.

Error Codes

See [Error Codes](#).

4.10.3.4 Updating a Requirement Plan

Function

This API is used to update a requirement plan.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v3/plan/{project_id}/management/{plan_id}

Table 4-736 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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 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 Value range: N/A Default value: N/A

Request Parameters

Table 4-737 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-738 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 4-739 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 4-740 result

Parameter	Type	Description
id	String	Definition: Plan ID. Value range: N/A
name	String	Definition: Plan title. Value range: N/A

Parameter	Type	Description
type	String	Definition: Plan type. Value range: gantt (Gantt chart) mind (mind map)
project_id	String	Definition: Project ID. Value range: N/A
img_url	String	Definition: Address for storing images. Value range: N/A
creator	creator object	Definition: Creator information.

Table 4-741 creator

Parameter	Type	Description
user_id	String	Definition: User ID of the creator. Value range: N/A
domain_id	String	Definition: Tenant ID. Value 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

Response of the API for updating a requirement plan.

```
{
  "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;
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}");
        request.withBody("{name=test}");
        try {
            UpdateScrumPlanInProjectResponse response = client.updateScrumPlanInProject(request);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
        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 = 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
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](#).

4.10.3.5 Updating a Thumbnail

Function

This API is used to update a thumbnail.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v3/plan/{project_id}/management/{plan_id}/img

Table 4-742 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

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 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 Value range: N/A Default value: N/A

Request Parameters

Table 4-743 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-744 Request body parameters

Parameter	Mandatory	Type	Description
img_url	Yes	String	Definition: Thumbnail URL. Constraints: Regular expression: /v1/upload/%s/d{6}/[a-zA-Z0-9]+.[a-zA-Z] Options: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-745 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 4-746 result

Parameter	Type	Description
id	String	Definition: Plan ID. Value range: N/A
name	String	Definition: Plan title. Value range: N/A

Parameter	Type	Description
type	String	Definition: Plan type. Value range: gantt (Gantt chart) mind (mind map)
project_id	String	Definition: Project ID. Value range: N/A
img_url	String	Definition: Address for storing images. Value range: N/A
creator	creator object	Definition: Creator information.

Table 4-747 creator

Parameter	Type	Description
user_id	String	Definition: User ID of the creator. Value range: N/A
domain_id	String	Definition: Tenant ID. Value 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/img
{
  "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
}
```

Example Responses

Status code: 200

Updates the thumbnail response.

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Updates the thumbnail response.

Error Codes

See [Error Codes](#).

4.10.3.6 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](#).

URI

POST /v3/plan/{project_id}/managements

Table 4-748 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Request Parameters

Table 4-749 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

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

Response Parameters

Status code: 200

Table 4-750 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 4-751 PlanVO

Parameter	Type	Description
result	result object	Definition: Plan list.
status	String	Definition: Processing status of a request. Value range: success error: failed

Table 4-752 result

Parameter	Type	Description
id	String	Definition: Plan ID. Value 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: Project ID. Value range: N/A
img_url	String	Definition: Address for storing images. Value range: N/A
creator	creator object	Definition: Creator information.

Table 4-753 creator

Parameter	Type	Description
user_id	String	Definition: User ID of the creator. Value range: N/A
domain_id	String	Definition: Tenant ID. Value range: N/A

Parameter	Type	Description
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/managements
{
  "sort" : "",
  "search" : "",
  "page_no" : 1,
  "page_size" : 15,
  "type" : "gantt",
  "user_ids" : [ "a360371833bf4c558f796fd707b44daf" ]
}
```

Example Responses

Status code: 200

Query all plan data visible to the current user in the project.

```
{
  "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" : 1,
  "minds" : 0,
  "gantts" : 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 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()
            .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"
    "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.

Error Codes

See [Error Codes](#).

4.10.3.7 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](#).

URI

POST /v3/plan/{project_id}/{plan_id}/addable-issues

Table 4-754 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

Request Parameters

Table 4-755 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

Table 4-756 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

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 4-757 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 4-758 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.

Table 4-759 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

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

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

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
closer	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

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 4-760 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 4-761 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

Parameter	Type	Description
type	String	Definition: Project type. Value range: Scrum

Table 4-762 Tracker

Parameter	Type	Description
name	String	Definition: Type name. Value range: Task Bug Epic Feature Story
id	Integer	Definition: Type ID. Value range: 2 (task) 3 (bug) 5 (epic) 6 (feature) 7 (story)

Table 4-763 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

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 4-764 Severity

Parameter	Type	Description
name	String	Definition: Work item severity ID. Value range: Critical Major Minor Information

Parameter	Type	Description
id	Integer	Definition: Severity ID. Value range: 10: critical 11: major 12: minor 13: information

Table 4-765 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

Parameter	Type	Description
id	Integer	Definition: User ID. Value range: N/A

Table 4-766 Priority

Parameter	Type	Description
name	String	Definition: Work item priority. Value range: Low Medium High
id	Integer	Definition: Priority ID. Value range: 1: low 2: medium 3: high

Table 4-767 Status

Parameter	Type	Description
name	String	Definition: Status name. Value range: New Developing Resolved Testing Closed Rejected

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

Response to a successful request for querying a work item API that can be added to the current plan.

```
{
  "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
},
"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,
  "priority": {
    "name": "Medium",
    "id": 2
  },
  "actual_work_hours": 0,
  "is_watcher": false,
  "deleted": false,
  "fixed_version": { },
  "is_archived": false,
  "created_on": "1752465765000",
  "domain": { },
  "developer": { },
  "closer": { },
  "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](#).

4.10.3.8 Establishing an Association Between a Work Item and a Gantt Chart

Function

This API is used to establish an association between a work item and a Gantt chart.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/plan/{project_id}/{plan_id}/issue

Table 4-768 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value 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 Value range: N/A Default value: N/A

Request Parameters

Table 4-769 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Table 4-770 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

Table 4-771 Response body parameters

Parameter	Type	Description
status	String	Definition: Status of the response body. Value range: success: successful error: failed

Example Requests

```
{endpoint}/v3/plan/5192de5eb435430c8cd41c6ae6028848/f29c3f16d5f54cbab5e167ef9eed3baf/issue  
[ 9192109, 9191020, 9184553, 9185630 ]
```

Example Responses

Status code: 200

Response body.

```
{  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.10.3.9 Deleting Work Items in the Current Plan in Batches

Function

This API is used to delete work items in the current plan in batches.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v3/plan/{project_id}/{plan_id}/issue

Table 4-772 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List . The value of project_id in the response message body is the project ID. Constraints: Regular expression: [A-Za-z0-9]{32} Value 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 Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-773 Response body parameters

Parameter	Type	Description
status	String	Definition: Status of the response body. Value range: success: successful error: failed

Example Requests

```
{endpoint}/v3/plan/5192de5eb435430c8cd41c6ae6028848/f29c3f16d5f54cbab5e167ef9eed3baf/issue
```

Example Responses

Status code: 200

Response body.

```
{  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.11 Work Item Workloads

4.11.1 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](#).

URI

POST /v3/work-hours/get-member-work-hours

Request Parameters

Table 4-774 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

Table 4-775 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

Parameter	Mandatory	Type	Description
page_size	No	String	Definition: Page size. 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
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 4-776 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 4-777 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 4-778 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

Parameter	Type	Description
summary	String	Definition: Workload content. Value range: N/A
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). Constraints: N/A Value range: N/A Default value: N/A
assigned_to	assigned_to object	Definition: Workload creator.
tracker	Tracker object	Definition: Work item type.

Table 4-779 assigned_to

Parameter	Type	Description
assigned_nick_name	String	Definition: User alias. Value range: N/A

Parameter	Type	Description
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
first_name	String	Definition: Username. Value range: N/A
id	Integer	Definition: Digital ID of a user. Value range: N/A

Table 4-780 Tracker

Parameter	Type	Description
name	String	Definition: Type name. Value 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"
}
```

Example Responses

Status code: 200

Response to a successful request for querying the project member workload list.

```
{
  "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](#).

4.12 IPD Work Item Management

4.12.1 Querying Work Item Details

Function

This API is used to query work item details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}

Table 4-781 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Description: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of project_id in the response body is the project ID. Constraints: regular expression, <code>^[A-Za-z0-9]{32}\$</code> Default value: N/A
issue_id	Yes	String	Description: unique ID of a work item. Constraints: regular expression, <code>^([0-9]{18,19})\$</code> Default value: N/A

Table 4-782 Query Parameters

Parameter	Mandatory	Type	Description
issue_type	Yes	String	Definition: Work item type. Constraints: Minimum length: 1 character. Maximum length: 32 characters. Range: Epic, FE, SF, IR, RR, SR, US, AR, Bug, and Task Default value: N/A
domain_id	No	String	Definition: Domain ID of the project. Constraints: Regular expression: ^[A-Za-z0-9]{32}\$ Options: N/A Default value: N/A

Request Parameters

Table 4-783 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints: Mandatory. Range: Minimum length: 10 character. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200**Table 4-784** Response body parameters

Parameter	Type	Description
status	String	Definition: Status Options: N/A
message	String	Definition: Information. Options: N/A
result	Array of Map<String,> objects	Definition: Query result.

Example Requests

```
/v1/ipdprojectservice/projects/e4b0424709934bd1a54753e70336564d/issues/981935538274476033?  
issue_type=RR
```

Example Responses

Status code: 200

Success response

```
{  
  "status" : "success",  
  "message" : null,  
  "result" : [ {  
    "id" : "1135239465657217024",  
    "number" : "BUG20250530487304",  
    "title" : "Test_bug_Key Issue",  
    "type" : "bug",  
    "stay_days" : 1,  
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",  
    "created_date" : "1748591780337"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Success response

Error Codes

See [Error Codes](#).

4.12.2 Querying Tree-shaped Work Items

Function

This API is used to query tree-shaped work items.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/tree

Table 4-785 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-786 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	Definition: Work item type. Constraints: Regular expression: ([A-Za-z_]{2,32}) Options: For system device projects, the options are RR , SF , IR , SR , AR , Task , and Bug . For standalone software projects, the options are RR , SF , IR , US , Task , and Bug . For cloud service projects, the options are RR , Epic , FE , US , Task , and Bug . Multiple work item types can be supported, which are separated by commas (,), for example, IR,SR,AR . Default value: N/A

Request Parameters

Table 4-787 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 Value range: The value contains 10 to 32,768 characters. Default value: N/A

Table 4-788 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 Options: N/A Default value: N/A
number	No	Array of strings	Definition: Query by number. If number is specified, keyword does not take effect. Constraints: N/A

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: Offset (pagination parameter), which starts from 0 and is an integer multiple of limit . Constraints: N/A Options: N/A Default value: N/A
limit	No	Integer	Definition: Number of records on each page (pagination parameter). Constraints: N/A Options: N/A Default value: 20
modified_date	No	DateFilterVO object	Definition: Last modification time of a work item. Constraints: N/A

Table 4-789 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 Querying the Release/Sprint Plan List API. The id in PlanVO in the returned parameters is the release plan ID. Constraints: Regular expression: ([0-9]{18,19}) (-2) Value 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 Querying the Release/Sprint Plan List API. The id in children in the returned parameters is the release/sprint ID. Constraints: N/A

Table 4-790 DateFilterVO

Parameter	Mandatory	Type	Description
start_date	No	String	Definition: Start timestamp of the time filter. The value -2 indicates that no content is set. Constraints: N/A Options: N/A Default value: N/A
end_date	No	String	Definition: End timestamp of the time filter. The value -2 indicates that no content is set. Constraints: N/A Options: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-791 Response body parameters

Parameter	Type	Description
result	IssueEntityPageResult object	Definition: Work item tree diagram API.
status	String	Definition: Response status. Value range: success: The response is successful. error: The response failed.

Parameter	Type	Description
message	String	Definition: Query failure cause. Options: N/A

Table 4-792 IssueEntityPageResult

Parameter	Type	Description
issues	Array of IssueInfoVO objects	Definition: Work item list.
total	Integer	Definition: Total number of work items. Options: N/A

Table 4-793 IssueInfoVO

Parameter	Type	Description
id	String	Definition: ID of the work item to be updated. Value range: N/A Default value: N/A
title	String	Definition: Work item title. Value range: N/A Default value: N/A

Parameter	Type	Description
description	String	Definition: Work item description field. Value range: N/A Default value: N/A
type	String	Definition: Broad category of a work item. Value range: requirement (R&D requirement), bug , task , feature , and raw_requirement . Default value: N/A
number	String	Definition: Work item ID. Value range: N/A Default value: N/A
category	String	Definition: Work item type. Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A
parent_id	String	Definition: Parent work item ID. Value range: N/A Default value: N/A

Parameter	Type	Description
project_id	String	Definition: 32-character UUID of a project, which must be unique. Value range: N/A Default value: N/A
status	String	Definition: Work item status code. Value range: Start: initial Analyse: to be analyzed Develop: being developed Test: testing Finish: completed
state	String	Definition: Work item lifecycle. Value 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.

Parameter	Type	Description
created_time	String	Definition: Work item creation time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Value range: N/A Default value: N/A
modified_by	UserEntity object	Definition: Late updater of a work item.
modified_time	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Value range: N/A Default value: N/A
plan_end_date	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Value range: N/A Default value: N/A
close_time	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Value range: N/A Default value: N/A

Parameter	Type	Description
workload	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Value range: 0-999,999,999.9 Default value: N/A
workload_sum	String	Definition: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0-999,999,999.9. The value cannot be edited. Constraints: Minimum length: 0 characters. Maximum length: 11 characters. Default value: N/A
tenant_id	String	Definition: ID of the tenant to which the work item belongs. You can obtain the value from the Querying Tree-shaped Work Items API. The value is tenant_id in the response body. Value range: N/A Default value: N/A
link	String	Definition: Associated item ID of a work item. Multiple associated items are separated by commas (,). A work item supports a maximum of 50 associated items. Value range: N/A Default value: N/A

Parameter	Type	Description
suspended	Boolean	Definition: Whether a work item is suspended. Value range: true and false Default value: N/A
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. Value range: N/A Default value: N/A
labels	Array of LabelEntity objects	Definition: Work item tag.
custom_fields	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "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. Value range: N/A Default value: N/A

Parameter	Type	Description
ir2feature	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Default value: N/A
need_break	String	Definition: Whether a work item needs to be broken down. This field is available only for work item types that can be broken down. Value range: N/A Default value: N/A
break_status	String	Definition: Breakdown status. The options are: decomposed: broken down undecomposed: not broken down --: N/A Value range: decomposed, undecomposed, and -- Default value: N/A
baseline	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Value range: null, baselined, and baseline-reviewing Default value: N/A

Parameter	Type	Description
priority	String	Definition: Work item priority. Some work items have this field. Value range: N/A Default value: N/A
related_network_security	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Value range: N/A Default value: N/A
collaboratives	String	Definition: Collaboration task ID in R&D requirement collaboration information. Value range: N/A Default value: N/A
business_domain	String	Definition: Domain field. Value range: N/A Default value: N/A
plan_pi	String	Definition: Work item release plan ID. Value range: N/A Default value: N/A

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. Value range: N/A Default value: N/A
change_status	String	Definition: Work item change status. The options are: change-reviewing: being reviewed changed: changed unchanged or null: unchanged Value range: change-reviewing, changed, unchange, and null Default value: N/A
no_break_reason	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Value range: N/A Default value: N/A
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. Value range: N/A Default value: N/A

Parameter	Type	Description
feature_set	String	Definition: Feature set ID. Value range: N/A Default value: 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. Value range: N/A Default value: N/A
found_pi	String	Definition: ID of the release plan where a bug is found. This field is available only for bugs. Value range: N/A Default value: N/A
found_iteration	String	Definition: ID of the sprint plan where a bug is found. This field is available only for bugs. Value range: N/A Default value: N/A
reason_analysis	String	Definition: Cause analysis. This field is available only for bugs. Value range: N/A Default value: N/A

Parameter	Type	Description
repair_solution	String	Definition: Fixing solution. This field is available only for bugs. Value range: N/A Default value: N/A
test_report	String	Definition: Test report. This field is available only for bugs. Value range: N/A Default value: N/A
sys_no_repair_reason	String	Definition: Reason why fixing is not required. This field is available only for bugs. Value range: N/A Default value: N/A
sys_activation_reason	String	Definition: Activation reason. This field is available only for bugs. Value range: N/A Default value: N/A
sys_return_reason	String	Definition: Reason for return. This field is available only for bugs. Value range: N/A Default value: N/A

Parameter	Type	Description
test_failures_times	Integer	Definition: Number of times that regression failed. This field is available only for bugs. Value range: N/A Default value: N/A
close_type	String	Definition: Closure type. This field is available only for bugs. The options are problem_solved , problem_to_requirement , duplicate_problem , and not_a_problem , which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. Value range: problem_solved , problem_to_requirement , duplicate_problem , and not_a_problem Default value: N/A

Table 4-794 IssueEntity

Parameter	Type	Description
id	String	Definition: ID of the work item to be updated. You can obtain the value from the Querying Tree-shaped Work Items API. The value is id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
title	String	Definition: Work item title. You can obtain the value from the Querying Tree-shaped Work Items API. The value is title in the response body. Constraints: Minimum length: 1 character. Maximum length: 256 characters. Options: N/A Default value: N/A
description	String	Definition: Work item description. You can obtain the value from the Querying Tree-shaped Work Items API. The value is description in the response body. Constraints: Minimum length: 1 character. Maximum length: 500,000 characters. Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Value range: requirement (R&D requirement) bug task feature raw_requirement (raw requirement) Default value: N/A
number	String	Definition: Work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is number in the response body. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Options: N/A Default value: N/A

Parameter	Type	Description
category	String	Definition: Subcategory of work item. You can obtain the value from the Querying Tree-shaped Work Items API. The value is category in the response body. Constraints: N/A Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A
parent_id	String	Definition: Parent work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is parent_id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Parameter	Type	Description
status	String	Definition: Work item status code. You can obtain the value from the Querying the Work Item Status API. The value is code in the response body. Constraints: Minimum length: 2 characters. Maximum length: 32 characters. Value range: N/A Default value: N/A
state	String	Definition: Work item lifecycle. The options are In use and Discarded . You can obtain the value from the Querying Tree-shaped Work Items API. The value is state in the response body. Constraints: Minimum length: 2 characters. Maximum length: 8 characters. Value 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 Default value: N/A
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.

Parameter	Type	Description
created_time	String	Definition: Work item creation time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
modified_by	UserEntity object	Definition: Late updater of a work item.
modified_time	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
plan_end_date	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
close_time	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
workload	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Constraints: N/A Options: 0-999,999,999.9 Default value: N/A
workload_sum	String	Definition: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0-999,999,999.9. The value cannot be edited. Constraints: Minimum length: 0 characters. Maximum length: 11 characters. Options: 0-999,999,999.9 Default value: N/A

Parameter	Type	Description
tenant_id	String	Definition: ID of the tenant to which the work item belongs. You can obtain the value from the Querying Tree-shaped Work Items API. The value is tenant_id in the response body. Constraints: 32 characters. Value range: N/A Default value: N/A
link	String	Definition: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the Querying Tree-shaped Work Items API. The value is link in the response body. Constraints: Minimum length: 0 characters. Maximum length: 2,048 characters. Value range: N/A Default value: N/A
suspended	Boolean	Definition: Whether a work item is suspended. Constraints: N/A Options: true and false Default value: N/A

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. Constraints: N/A Options: N/A Default value: N/A
labels	Array of LabelEntity objects	Definition: Work item tag.
custom_fields	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "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 sub-work item. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
ir2feature	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Options: N/A Default value: N/A
need_break	String	Definition: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. Constraints: N/A Options: N/A Default value: N/A
break_status	String	Definition: Breakdown status. Constraints: N/A Value range: decomposed: broken down undecomposed: not broken down Empty: N/A Default value: N/A

Parameter	Type	Description
baseline	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Constraints: N/A Options: null , baselined , and baseline-reviewing Default value: N/A
priority	String	Definition: Work item priority. Some work items have this field. Constraints: N/A Options: N/A Default value: N/A
related_network_security	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
collaboratives	String	Definition: R&D requirement collaboration task ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is collaboratives in the response body. Constraints: Minimum length: 0 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A
business_domain	String	Definition: Domain field. Constraints: N/A Options: N/A Default value: N/A
plan_pi	String	Definition: Work item release plan ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is plan_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is plan_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
change_status	String	Definition: Work item change status. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Value range: change-reviewing: under change review changed: changed unchange: unchanged null: unchanged Default value: N/A
no_break_reason	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Constraints: Minimum length: 0 characters. Maximum length: 512 characters. Options: N/A Default value: N/A
submitted_by	Array of UserEntity objects	Definition: Work item proposer.

Parameter	Type	Description
ir2rr	String	Definition: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. Constraints: N/A Value range: N/A Default value: N/A
feature_set	String	Definition: Feature set ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is feature_set in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is found_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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 Querying Tree-shaped Work Items API. The value is found_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
reason_analysis	String	Definition: Cause analysis. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
repair_solution	String	Definition: Rectification solution. This field is available only for bugs. Constraints: Minimum length: 0 characters. Maximum length: 50,000 characters. Options: N/A Default value: N/A
test_report	String	Definition: Test report. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_no_repair_reason	String	Definition: Reason why rectification is not required. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_activation_reason	String	Definition: Activation reason. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
sys_return_reason	String	Definition: Reason for return. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
test_failures_times	Integer	Definition: Number of times that regression failed. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
close_type	String	Definition: Closure type. Constraints: N/A Value 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	UserEntity object	Definition: Work item planning owner.
doing_owner	UserEntity object	Definition: Work item implementation owner.
delivered_owner	UserEntity object	Definition: Work item delivery owner.

Parameter	Type	Description
checking_owner	UserEntity object	Definition: Work item acceptance owner.
test_owner	UserEntity object	Definition: Work item testing owner.
develop_owner	UserEntity object	Definition: Work item development owner.
processing_owner	UserEntity object	Definition: Work item processing owner.
fixed_owner	UserEntity object	Definition: Work item fixing owner.
researchanddevelop_owner	UserEntity object	Definition: Work item R&D owner.
analyse_owner	UserEntity object	Definition: Work item analysis owner.

Table 4-795 LabelEntity

Parameter	Type	Description
id	String	Definition: Label ID, which is the value of id in the response body returned by calling the Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
color	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A
title	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Table 4-796 FieldCodeValuePair

Parameter	Type	Description
code	String	Definition: Work item field code. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Options: N/A Default value: N/A
value	String	Definition: Custom field value of a work item. Use commas (,) to separate multiple values. Constraints: Minimum length: 0 characters. Maximum length: 10,000 characters. Options: N/A Default value: N/A

Table 4-797 UserEntity

Parameter	Type	Description
id	String	Definition: User ID. You can obtain the value using the API for obtaining the current user information. The value of id in the response body is the user ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 64 characters. Default value: N/A
nick_name	String	Definition: User alias. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 30 characters. Default value: N/A

Table 4-798 SecurityLevelResult

Parameter	Type	Description
id	String	Definition: Security level field ID. Value range: N/A
display_value	String	Definition: Security level field name. Value range: N/A
value	String	Definition: Value of a custom security level field. Value range: N/A

Parameter	Type	Description
code	String	Definition: Security level code. Value range: N/A
sequence	Double	Definition: Security level sorting value. A larger value indicates a higher security level. Value range: N/A

Status code: 400

Table 4-799 Response body parameters

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

OK

```
{
  "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 message.

```
{  
  "error_code" : "PM.PM.02176813",  
  "error_msg" : "No permission."  
}
```

Status Codes

Status Code	Description
200	OK
400	Error message.

Error Codes

See [Error Codes](#).

4.12.3 Updating Work Items in Batches

Function

This API is used to update work items in batches.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v1/ipdprojectservice/projects/{project_id}/issues/batch

Table 4-800 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-801 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 Value range: The value contains 10 to 32,768 characters. Default value: N/A

Table 4-802 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	Array of strings	Definition: Array of IDs of the work items to be updated. Performing Advanced Query of Work Items API. The value of the id field in the response message body is the work item ID. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: Minimum length: 18 characters. Maximum length: 19 characters. Default value: N/A
attribute	Yes	IssueEntity object	Definition: Work item updates.

Table 4-803 IssueEntity

Parameter	Mandatory	Type	Description
id	No	String	Definition: ID of the work item to be updated. You can obtain the value from the Querying Tree-shaped Work Items API. The value is id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
title	No	String	Definition: Work item title. You can obtain the value from the Querying Tree-shaped Work Items API. The value is title in the response body. Constraints: Minimum length: 1 character. Maximum length: 256 characters. Options: N/A Default value: N/A
description	No	String	Definition: Work item description. You can obtain the value from the Querying Tree-shaped Work Items API. The value is description in the response body. Constraints: Minimum length: 1 character. Maximum length: 500,000 characters. Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
type	No	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 Querying Tree-shaped Work Items API. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Value range: requirement (R&D requirement) bug task feature raw_requirement (raw requirement) Default value: N/A
number	No	String	Definition: Work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is number in the response body. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
category	Yes	String	Definition: Subcategory of work item. You can obtain the value from the Querying Tree-shaped Work Items API. The value is category in the response body. Constraints: N/A Value 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
parent_id	No	String	Definition: Parent work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is parent_id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

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 API for querying the project list. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A
status	No	String	Definition: Work item status code. You can obtain the value from the Querying the Work Item Status API. The value is code in the response body. Constraints: Minimum length: 2 characters. Maximum length: 32 characters. Value range: N/A Default value: N/A
assignee	No	UserEntity object	Definition: Work item owner.
assigned_cc	No	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	No	UserEntity object	Definition: Work item creator.

Parameter	Mandatory	Type	Description
created_time	No	String	Definition: Work item creation time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
modified_by	No	UserEntity object	Definition: Late updater of a work item.
modified_time	No	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
plan_end_date	No	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
close_time	No	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
workload	No	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Constraints: N/A Options: 0-999,999,999.9 Default value: N/A
link	No	String	Definition: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the Querying Tree-shaped Work Items API. The value is link in the response body. Constraints: Minimum length: 0 characters. Maximum length: 2,048 characters. Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
suspended	No	Boolean	Definition: Whether a work item is suspended. Constraints: N/A Options: true and false Default value: N/A
status_modified_time	No	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. Constraints: N/A Options: N/A Default value: N/A
labels	No	Array of LabelEntity objects	Definition: Work item tag.
custom_fields	No	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "code": "field code", "value": "field value" }.
children	No	Array of IssueEntity objects	Definition: Child work item set of a work item.

Parameter	Mandatory	Type	Description
ir2feature	No	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Options: N/A Default value: N/A
need_break	No	String	Definition: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. Constraints: N/A Options: N/A Default value: N/A
break_status	No	String	Definition: Breakdown status. Constraints: N/A Value range: decomposed: broken down undecomposed: not broken down Empty: N/A Default value: N/A

Parameter	Mandatory	Type	Description
baseline	No	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Constraints: N/A Options: null, baselined, and baseline-reviewing Default value: N/A
priority	No	String	Definition: Work item priority. Some work items have this field. Constraints: N/A Options: N/A Default value: N/A
related_network_security	No	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
collaboratives	No	String	Definition: R&D requirement collaboration task ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is collaboratives in the response body. Constraints: Minimum length: 0 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A
business_domain	No	String	Definition: Domain field. Constraints: N/A Options: N/A Default value: N/A
plan_pi	No	String	Definition: Work item release plan ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is plan_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
plan_iteration	No	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 Querying Tree-shaped Work Items API. The value is plan_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
change_status	No	String	Definition: Work item change status. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Value range: change-reviewing: under change review changed: changed unchange: unchanged null: unchanged Default value: N/A

Parameter	Mandatory	Type	Description
no_break_reason	No	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Constraints: Minimum length: 0 characters. Maximum length: 512 characters. Options: N/A Default value: N/A
submitted_by	No	Array of UserEntity objects	Definition: Work item proposer.
ir2rr	No	String	Definition: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. Constraints: N/A Value range: N/A Default value: N/A
feature_set	No	String	Definition: Feature set ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is feature_set in the response body. Constraints: Regular expression: ^([0-9]{1,19})\$ Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
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 Options: N/A 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 obtain the value from the Querying Tree-shaped Work Items API. The value is found_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

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 obtain the value from the Querying Tree-shaped Work Items API. The value is found_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
reason_analysis	No	String	Definition: Cause analysis. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
repair_solution	No	String	Definition: Rectification solution. This field is available only for bugs. Constraints: Minimum length: 0 characters. Maximum length: 50,000 characters. Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
test_report	No	String	Definition: Test report. This field is available only for bugs. Constraints: N/A Options: N/A 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 Options: N/A Default value: N/A
sys_activation_reason	No	String	Definition: Activation reason. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_return_reason	No	String	Definition: Reason for return. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

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 Options: N/A Default value: N/A
close_type	No	String	Definition: Closure type. Constraints: N/A Value 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	UserEntity object	Definition: Work item planning owner.
doing_owner	No	UserEntity object	Definition: Work item implementation owner.
delivered_owner	No	UserEntity object	Definition: Work item delivery owner.
checking_owner	No	UserEntity object	Definition: Work item acceptance owner.
test_owner	No	UserEntity object	Definition: Work item testing owner.
develop_owner	No	UserEntity object	Definition: Work item development owner.

Parameter	Mandatory	Type	Description
processing_owner	No	UserEntity object	Definition: Work item processing owner.
fixed_owner	No	UserEntity object	Definition: Work item fixing owner.
researchanddevelop_owner	No	UserEntity object	Definition: Work item R&D owner.
analyse_owner	No	UserEntity object	Definition: Work item analysis owner.

Table 4-804 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 Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
color	No	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
title	No	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A
label_type	No	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Table 4-805 FieldCodeValuePair

Parameter	Mandatory	Type	Description
code	No	String	Definition: Work item field code. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
value	No	String	Definition: Custom field value of a work item. Use commas (,) to separate multiple values. Constraints: Minimum length: 0 characters. Maximum length: 10,000 characters. Options: N/A Default value: N/A

Table 4-806 UserEntity

Parameter	Mandatory	Type	Description
id	No	String	Definition: User ID. You can obtain the value using the API for obtaining the current user information. The value of id in the response body is the user ID. Constraints: N/A Value range: N/A Default value: N/A
name	No	String	Definition: Username. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 64 characters. Default value: N/A

Parameter	Mandatory	Type	Description
nick_name	No	String	Definition: User alias. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 30 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-807 Response body parameters

Parameter	Type	Description
result	Array of IssueBatchOperateEntitiesResult objects	Definition: Result of batch editing.
status	String	Definition: Response status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Operation failure cause. Options: N/A

Table 4-808 IssueBatchOperateEntitiesResult

Parameter	Type	Description
success	Array of IssueOperateResult objects	Definition: Success result.

Parameter	Type	Description
failed	Array of IssueOperateResult objects	Definition: Failure result.

Table 4-809 IssueOperateResult

Parameter	Type	Description
id	String	Definition: ID of the changed work item. Value range: N/A
operator	String	Definition: ID of the work item changer. Value range: N/A
state	String	Definition: Discard flag of a work item. The options are as follows. Value 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
operation_id	String	Definition: Record ID of a work item baseline operation. Value range: N/A
operate_time	String	Definition: Work item change time, which is a Unix timestamp (unit: millisecond). Value range: N/A

Status code: 400

Table 4-810 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Value range: N/A
error_msg	String	Definition: Error description, which is a supplement to error_code . Value 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"
    } ],
    "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

OK

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

```
"success" : [ {
  "id" : "957294446158852096",
  "operator" : "a360371833bf4c558f796fd707b44daf",
  "operate_time" : "2024-01-29T21:26:11Z"
}, {
  "id" : "957315051394478080",
  "operator" : "a360371833bf4c558f796fd707b44daf",
  "operate_time" : "2024-01-29T21:26:11Z"
} ],
"failed" : [ ]
}]
}
```

Status code: 400

Error cause.

```
{
  "error_code" : "PM.PM.02176813",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	Error cause.

Error Codes

See [Error Codes](#).

4.12.4 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](#).

URI

GET /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}

Table 4-811 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A 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 Value range: N/A Default value: N/A

Table 4-812 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	Definition: Work item type. Constraints: N/A Options: 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200**Table 4-813** Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Request return information. Value range: N/A
data	IssueInfoVO object	Definition: Work item details.

Table 4-814 IssueInfoVO

Parameter	Type	Description
id	String	Definition: ID of the work item to be updated. Value range: N/A Default value: N/A
title	String	Definition: Work item title. Value range: N/A Default value: N/A
description	String	Definition: Work item description field. Value range: N/A Default value: N/A
type	String	Definition: Broad category of a work item. Value range: requirement (R&D requirement), bug , task , feature , and raw_requirement . Default value: N/A
number	String	Definition: Work item ID. Value range: N/A Default value: N/A

Parameter	Type	Description
category	String	Definition: Work item type. Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A
parent_id	String	Definition: Parent work item ID. Value range: N/A Default value: N/A
project_id	String	Definition: 32-character UUID of a project, which must be unique. Value range: N/A Default value: N/A
status	String	Definition: Work item status code. Value range: Start: initial Analyse: to be analyzed Develop: being developed Test: testing Finish: completed

Parameter	Type	Description
state	String	Definition: Work item lifecycle. Value 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). Constraints: N/A Value range: N/A Default value: N/A
modified_by	UserEntity object	Definition: Late updater of a work item.
modified_time	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Value range: N/A Default value: N/A

Parameter	Type	Description
plan_end_date	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Value range: N/A Default value: N/A
close_time	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Value range: N/A Default value: N/A
workload	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Value range: 0-999,999,999.9 Default value: N/A
workload_sum	String	Definition: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0-999,999,999.9. The value cannot be edited. Constraints: Minimum length: 0 characters. Maximum length: 11 characters. Default value: N/A

Parameter	Type	Description
tenant_id	String	Definition: ID of the tenant to which the work item belongs. You can obtain the value from the Querying Tree-shaped Work Items API. The value is tenant_id in the response body. Value range: N/A Default value: N/A
link	String	Definition: Associated item ID of a work item. Multiple associated items are separated by commas (,). A work item supports a maximum of 50 associated items. Value range: N/A Default value: N/A
suspended	Boolean	Definition: Whether a work item is suspended. Value range: true and false Default value: N/A
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. Value range: N/A Default value: N/A
labels	Array of LabelEntity objects	Definition: Work item tag.

Parameter	Type	Description
custom_fields	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "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. Value range: N/A Default value: N/A
ir2feature	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Default value: N/A
need_break	String	Definition: Whether a work item needs to be broken down. This field is available only for work item types that can be broken down. Value range: N/A Default value: N/A

Parameter	Type	Description
break_status	String	Definition: Breakdown status. The options are: decomposed: broken down undecomposed: not broken down --: N/A Value range: decomposed, undecomposed, and -- Default value: N/A
baseline	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Value range: null, baselined, and baseline-reviewing Default value: N/A
priority	String	Definition: Work item priority. Some work items have this field. Value range: N/A Default value: N/A
related_network_security	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Value range: N/A Default value: N/A

Parameter	Type	Description
collaboratives	String	Definition: Collaboration task ID in R&D requirement collaboration information. Value range: N/A Default value: N/A
business_domain	String	Definition: Domain field. Value range: N/A Default value: N/A
plan_pi	String	Definition: Work item release plan ID. Value range: N/A Default value: 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. Value range: N/A Default value: N/A
change_status	String	Definition: Work item change status. The options are: change-reviewing: being reviewed changed: changed unchanged or null: unchanged Value range: change-reviewing, changed, unchange, and null Default value: N/A

Parameter	Type	Description
no_break_reason	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Value range: N/A Default value: N/A
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. Value range: N/A Default value: N/A
feature_set	String	Definition: Feature set ID. Value range: N/A Default value: 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. Value range: N/A Default value: N/A

Parameter	Type	Description
found_pi	String	Definition: ID of the release plan where a bug is found. This field is available only for bugs. Value range: N/A Default value: N/A
found_iteration	String	Definition: ID of the sprint plan where a bug is found. This field is available only for bugs. Value range: N/A Default value: N/A
reason_analysis	String	Definition: Cause analysis. This field is available only for bugs. Value range: N/A Default value: N/A
repair_solution	String	Definition: Fixing solution. This field is available only for bugs. Value range: N/A Default value: N/A
test_report	String	Definition: Test report. This field is available only for bugs. Value range: N/A Default value: N/A

Parameter	Type	Description
sys_no_repair_reason	String	Definition: Reason why fixing is not required. This field is available only for bugs. Value range: N/A Default value: N/A
sys_activation_reason	String	Definition: Activation reason. This field is available only for bugs. Value range: N/A Default value: N/A
sys_return_reason	String	Definition: Reason for return. This field is available only for bugs. Value range: N/A Default value: N/A
test_failures_times	Integer	Definition: Number of times that regression failed. This field is available only for bugs. Value range: N/A Default value: N/A

Parameter	Type	Description
close_type	String	Definition: Closure type. This field is available only for bugs. The options are problem_solved , problem_to_requirement , duplicate_problem , and not_a_problem , which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. Value range: problem_solved , problem_to_requirement , duplicate_problem , and not_a_problem Default value: N/A

Table 4-815 IssueEntity

Parameter	Type	Description
id	String	Definition: ID of the work item to be updated. You can obtain the value from the Querying Tree-shaped Work Items API. The value is id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
title	String	Definition: Work item title. You can obtain the value from the Querying Tree-shaped Work Items API. The value is title in the response body. Constraints: Minimum length: 1 character. Maximum length: 256 characters. Options: N/A Default value: N/A
description	String	Definition: Work item description. You can obtain the value from the Querying Tree-shaped Work Items API. The value is description in the response body. Constraints: Minimum length: 1 character. Maximum length: 500,000 characters. Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Value range: requirement (R&D requirement) bug task feature raw_requirement (raw requirement) Default value: N/A
number	String	Definition: Work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is number in the response body. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Options: N/A Default value: N/A

Parameter	Type	Description
category	String	Definition: Subcategory of work item. You can obtain the value from the Querying Tree-shaped Work Items API. The value is category in the response body. Constraints: N/A Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A
parent_id	String	Definition: Parent work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is parent_id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Parameter	Type	Description
status	String	Definition: Work item status code. You can obtain the value from the Querying the Work Item Status API. The value is code in the response body. Constraints: Minimum length: 2 characters. Maximum length: 32 characters. Value range: N/A Default value: N/A
state	String	Definition: Work item lifecycle. The options are In use and Discarded . You can obtain the value from the Querying Tree-shaped Work Items API. The value is state in the response body. Constraints: Minimum length: 2 characters. Maximum length: 8 characters. Value 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 Default value: N/A
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.

Parameter	Type	Description
created_time	String	Definition: Work item creation time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
modified_by	UserEntity object	Definition: Late updater of a work item.
modified_time	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
plan_end_date	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
close_time	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
workload	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Constraints: N/A Options: 0-999,999,999.9 Default value: N/A
workload_sum	String	Definition: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0-999,999,999.9. The value cannot be edited. Constraints: Minimum length: 0 characters. Maximum length: 11 characters. Options: 0-999,999,999.9 Default value: N/A

Parameter	Type	Description
tenant_id	String	Definition: ID of the tenant to which the work item belongs. You can obtain the value from the Querying Tree-shaped Work Items API. The value is tenant_id in the response body. Constraints: 32 characters. Value range: N/A Default value: N/A
link	String	Definition: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the Querying Tree-shaped Work Items API. The value is link in the response body. Constraints: Minimum length: 0 characters. Maximum length: 2,048 characters. Value range: N/A Default value: N/A
suspended	Boolean	Definition: Whether a work item is suspended. Constraints: N/A Options: true and false Default value: N/A

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. Constraints: N/A Options: N/A Default value: N/A
labels	Array of LabelEntity objects	Definition: Work item tag.
custom_fields	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "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 sub-work item. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
ir2feature	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Options: N/A Default value: N/A
need_break	String	Definition: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. Constraints: N/A Options: N/A Default value: N/A
break_status	String	Definition: Breakdown status. Constraints: N/A Value range: decomposed: broken down undecomposed: not broken down Empty: N/A Default value: N/A

Parameter	Type	Description
baseline	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Constraints: N/A Options: null , baselined , and baseline-reviewing Default value: N/A
priority	String	Definition: Work item priority. Some work items have this field. Constraints: N/A Options: N/A Default value: N/A
related_network_security	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
collaboratives	String	Definition: R&D requirement collaboration task ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is collaboratives in the response body. Constraints: Minimum length: 0 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A
business_domain	String	Definition: Domain field. Constraints: N/A Options: N/A Default value: N/A
plan_pi	String	Definition: Work item release plan ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is plan_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is plan_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
change_status	String	Definition: Work item change status. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Value range: change-reviewing: under change review changed: changed unchange: unchanged null: unchanged Default value: N/A
no_break_reason	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Constraints: Minimum length: 0 characters. Maximum length: 512 characters. Options: N/A Default value: N/A
submitted_by	Array of UserEntity objects	Definition: Work item proposer.

Parameter	Type	Description
ir2rr	String	Definition: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. Constraints: N/A Value range: N/A Default value: N/A
feature_set	String	Definition: Feature set ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is feature_set in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is found_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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 Querying Tree-shaped Work Items API. The value is found_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
reason_analysis	String	Definition: Cause analysis. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
repair_solution	String	Definition: Rectification solution. This field is available only for bugs. Constraints: Minimum length: 0 characters. Maximum length: 50,000 characters. Options: N/A Default value: N/A
test_report	String	Definition: Test report. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_no_repair_reason	String	Definition: Reason why rectification is not required. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_activation_reason	String	Definition: Activation reason. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
sys_return_reason	String	Definition: Reason for return. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
test_failures_times	Integer	Definition: Number of times that regression failed. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
close_type	String	Definition: Closure type. Constraints: N/A Value 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	UserEntity object	Definition: Work item planning owner.
doing_owner	UserEntity object	Definition: Work item implementation owner.
delivered_owner	UserEntity object	Definition: Work item delivery owner.

Parameter	Type	Description
checking_owner	UserEntity object	Definition: Work item acceptance owner.
test_owner	UserEntity object	Definition: Work item testing owner.
develop_owner	UserEntity object	Definition: Work item development owner.
processing_owner	UserEntity object	Definition: Work item processing owner.
fixed_owner	UserEntity object	Definition: Work item fixing owner.
researchanddevelop_owner	UserEntity object	Definition: Work item R&D owner.
analyse_owner	UserEntity object	Definition: Work item analysis owner.

Table 4-816 LabelEntity

Parameter	Type	Description
id	String	Definition: Label ID, which is the value of id in the response body returned by calling the Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
color	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A
title	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Table 4-817 FieldCodeValuePair

Parameter	Type	Description
code	String	Definition: Work item field code. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Options: N/A Default value: N/A
value	String	Definition: Custom field value of a work item. Use commas (,) to separate multiple values. Constraints: Minimum length: 0 characters. Maximum length: 10,000 characters. Options: N/A Default value: N/A

Table 4-818 UserEntity

Parameter	Type	Description
id	String	Definition: User ID. You can obtain the value using the API for obtaining the current user information. The value of id in the response body is the user ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 64 characters. Default value: N/A
nick_name	String	Definition: User alias. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 30 characters. Default value: N/A

Table 4-819 SecurityLevelResult

Parameter	Type	Description
id	String	Definition: Security level field ID. Value range: N/A
display_value	String	Definition: Security level field name. Value range: N/A
value	String	Definition: Value of a custom security level field. Value range: N/A

Parameter	Type	Description
code	String	Definition: Security level code. Value range: N/A
sequence	Double	Definition: Security level sorting value. A larger value indicates a higher security level. Value range: N/A

Example Requests

Querying R&D requirement details

```
https://{endpoint}/v2/ipdprojectservice/projects/ce075137bdb74086a700ce80dfd5f08a/issues/1027299517722046465?category=IR
```

Example Responses

Status code: 200

OK

```
{
  "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 Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.12.5 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](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/query

Table 4-820 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-821 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. Value 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. For cloud service projects, options include RR, Epic, FE, US, Task, and Bug. Default value: N/A

Request Parameters

Table 4-822 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"). 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 IDs in the values array. Constraints: Maximum length: 200 characters. Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
filter_mode	No	String	Definition: Filter mode. Constraints: Maximum length: 512 characters. Value 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 Value range: N/A Default value: N/A
sort	No	Array of SortInfo objects	Definition: Sorting criteria. Constraints: N/A Value range: N/A Default value: N/A

Table 4-823 ConditionVO

Parameter	Mandatory	Type	Description
values	No	Array of strings	Definition: Value of the query condition. Value range: The value is determined by the query key. If the key is plan_pi , the value must be a release 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: Maximum length: 200 characters.
operator	No	String	Definition: Operator. Constraints: N/A Value 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:

Table 4-824 PageInfoVO

Parameter	Mandatory	Type	Description
page_no	No	Integer	Definition: Page index. Constraints: N/A Value range: Minimum value: 1 . Maximum value: 10,000 . Default value: 1
page_size	No	Integer	Definition: Page size. Constraints: N/A Value range: Minimum value: 5 . Maximum value: 200 . Default value: 200

Table 4-825 SortInfo

Parameter	Mandatory	Type	Description
field	No	String	Definition: Sorting field code. Constraints: N/A Value range: unique code of the corresponding field. The value can be obtained from the Querying Field Templates API. The value is code in the response body. Default value: N/A

Parameter	Mandatory	Type	Description
asc	No	Boolean	Definition: Whether the data is sorted by ascending order. Constraints: N/A Options: true: yes false: no Default value: N/A

Response Parameters

Status code: 200

Table 4-826 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Information. Options: N/A
result	IssueListResult object	Definition: Result data.

Table 4-827 IssueListResult

Parameter	Type	Description
issues	Array of IssueVO objects	Definition: Work item list. Value range: N/A

Parameter	Type	Description
total	Integer	Definition: Total number of work items that meet the filter criteria. Value range: N/A

Table 4-828 IssueVO

Parameter	Type	Description
sys_analysis_conclusion	String	Definition: Analysis conclusion, which is filled during RR acceptance. Value range: N/A
sys_remark	String	Definition: Remarks. This field is filled during RR submission for acceptance. Value range: N/A
promised	OptionVO object	Definition: Promised or not. This field is filled during RR acceptance.
type	String	Definition: Work item type. Value range: requirement (R&D requirement) raw requirement bug task feature
belong_inside	String	Definition: Whether a work item is submitted across projects. Value range: 1: submitted across projects 0: submitted within a project

Parameter	Type	Description
src_domain	DomainVO object	Definition: Proposing project of a work item.
domain_id	DomainVO object	Definition: Responsible project of a work item.
send_from	String	Definition: ID of the raw requirement's upstream requirement. Value 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 . Value range: N/A
send_to	String	Definition: ID of the raw requirement's downstream requirement. Value range: N/A
path	String	Definition: Path between the parent and child work items. Value range: N/A
workload_man_day	String	Definition: Planned workloads of a work item. Value range: N/A
sys_check_conclusion	String	Definition: Acceptance conclusion. This field is filled during RR acceptance. Value range: N/A

Parameter	Type	Description
id	String	Definition: Unique ID of a work item. Value range: N/A
state	String	Definition: Work item lifecycle. Value 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 releases that can be restored
stay_days	Integer	Definition: Number of days that a work item stays in the current status. Value range: N/A
assigned_cc	Array of UserVO objects	Definition: Cc recipient.
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. Value range: N/A
workitem2label	Array of WorkItemLabelVO objects	Definition: Work item label.
sys_return_conclusion	String	Definition: Reason for return. This field is filled when an RR/bug is returned. Value range: N/A

Parameter	Type	Description
close_time	String	Definition: Completion time of a work item. Value range: N/A
priority	OptionVO object	Definition: Priority.
modified_date	String	Definition: Last modification time of a work item. Value range: N/A
created_by	UserVO object	Definition: Work item creator.
break_status	OptionVO object	Definition: Breakdown status.
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. Value range: N/A
expect_delivery_time	String	Definition: Expected completion time. The value is a UNIX timestamp in milliseconds. Value range: N/A
parent_id	String	Definition: Parent work item ID of a work item. Value range: N/A
assignee	UserVO object	Definition: Owner.
region	String	Definition: Domain of the tenant to which the work item belongs. Value range: N/A

Parameter	Type	Description
status	AlmStatus object	Definition: Work item status.
tenant_id	String	Definition: ID of the tenant to which the work item belongs. Value range: N/A
plan_pi	PlanVO object	Definition: Release to which a work item belongs.
link	String	Definition: Relationship field of the associated work item. Use commas (,) to separate multiple values. Value range: N/A
description	String	Definition: Work item description. A maximum of 500,000 characters are supported. Value range: N/A
is_suspended	OptionVO object	Definition: Suspended or not.
change_status	OptionVO object	Definition: Change review status of a work item.
title	String	Definition: Work item title. Value range: N/A
sum_workload_man_day	String	Definition: Actual workloads of a work item. Value range: N/A
sys_close_reason	String	Definition: Reason for closing a work item. Value range: N/A

Parameter	Type	Description
sys_resubmit_reason	String	Definition: Reason for resubmission, which is used when resubmitting a returned RR/bug. Value range: N/A
plan_end_date	String	Definition: Planned completion time of a work item. Value range: N/A
rr2ir	String	Definition: ID of the child IR of an RR. Use commas (,) to separate multiple values. Value range: N/A
category_layer_id	String	Definition: Work item type level ID. Value range: N/A
submitted_by	Array of UserVO objects	Definition: Work item submitter.
rr2us	String	Definition: ID of the child US of an RR. Use commas (,) to separate multiple values. Value range: N/A
sys_no_develop_reason	String	Definition: Reason why no development is requirement for the work item. Value range: N/A
plan_iteration	PlanVO object	Definition: Sprint to which the work item belongs.

Parameter	Type	Description
sys_return_reason	String	Definition: Reason for return. It is usually used when returning an RR/bug. Value range: N/A
cascade_delete	String	Definition: Flag indicating whether to perform cascading deletion. Value range: N/A
recipient	Array of UserVO objects	Definition: Receiver. It is usually used for RRs.
modified_by	Array of UserVO objects	Definition: Last modifier of a work item.
created_date	String	Definition: Creation time of a work item. Value range: N/A
category	String	Definition: Work item type. Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug .
collaborative_status	String	Definition: Collaboration status of an R&D requirement. Value range: N/A
project	DomainVO object	Definition: Project to which the work item belongs.

Parameter	Type	Description
child_issues	Array of IssueVO objects	Definition: Child work item list.
activate_times	Integer	Definition: Number of activation times. The value is automatically assigned when the bug is activated. Value range: N/A
baseline	OptionVO object	Definition: Work item baseline status.
business_domain	OptionVO object	Definition: Domain of a work item.
children	String	Definition: ID of a child work item. Use commas (,) to separate multiple values. Value range: N/A
collaborative_history	String	Definition: Change history of a collaborative requirement's status. The value is a JSON string. Value range: N/A
collaboratives	String	Definition: ID of a requirement collaboration. Value 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. Value range: N/A

Parameter	Type	Description
convolution_plan_hours	String	Definition: Planned roll-up workloads, summed from the planned workloads of all the child and collaborative work items. Value range: N/A
develop_owner	String	Definition: Development owner. This field is usually used for nodes in the developing status. Value range: N/A
done_ratio	OptionVO object	Definition: Progress.
expected_repair_date	String	Definition: Expected fixing time. Value range: N/A
feature2ir	String	Definition: ID of the child IR of an SF. Use commas (,) to separate multiple values. Value range: N/A
feature_set	OptionVO object	Definition: Feature set to which the SF belongs.
found_env	OptionVO object	Definition: Environment where the bug was found.
found_iteration	PlanVO object	Definition: Sprint where the bug was found.
found_pi	PlanVO object	Definition: Release where the bug was found.
function_scene	String	Definition: Function scenario. Value range: N/A

Parameter	Type	Description
ir2feature	String	Definition: ID of the SF associated with an IR. An IR can be associated with only one SF. Value range: N/A
ir2rr	String	Definition: ID of the parent RR associated with an IR. Use commas (,) to separate multiple values. Value range: N/A
issue_opinion_id	String	Definition: ID of the decision comment associated with a work item.
issue_review_id	String	Definition: ID of the review comment associated with a work item. Value range: N/A
module	OptionVO object	Definition: Module.
need_break	OptionVO object	Definition: Whether work item breakdown is required.
need_develop	OptionVO object	Definition: Whether development is required.
no_break_reason	String	Definition: Reason for no breakdown required. Value range: N/A
no_develop_reason	String	Definition: Reason for no development required. Value range: N/A

Parameter	Type	Description
order	Integer	Definition: Priority order. Value range: 1 to 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. Value range: N/A
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. Value 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. Value 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. Value range: N/A
position_float	String	Definition: Initial position of a work item in the list. Value range: N/A

Parameter	Type	Description
processing_owner	String	Definition: Owner for in-progress nodes. This field is usually used for in-progress nodes. Value range: N/A
reason_analysis	String	Definition: Cause analysis. Value range: N/A
regression_failure_number	Integer	Definition: Number of times that regression failed. This field is automatically assigned when the bug test fails. Value range: N/A
related_network_security	OptionVO object	Definition: Whether network security is involved.
repair_solution	String	Definition: Fix. This field is usually used for bugs. Value range: N/A
researchanddevelopment_owner	String	Definition: R&D owner. This field is usually used for nodes in the R&D status. Value range: N/A
severity	OptionVO object	Definition: Severity.
sys_activation_reason	String	Definition: Severity. Value range: N/A
sys_no_repair_reason	String	Definition: Reason why fixing is not required. This field is used when the bug does not need to be fixed. Value range: N/A

Parameter	Type	Description
test_failures_times	Integer	Definition: Number of times that the test failed. Value range: N/A
test_owner	String	Definition: Test owner. This field is usually used for nodes in the testing status. Value range: N/A
test_report	String	Definition: Test report. Value range: N/A
val_feature	OptionVO object	Definition: Value feature.
workitem2gantchart	String	Definition: ID of the Gantt chart associated with a work item. Value range: N/A
workitem2mindmap	String	Definition: ID of the mind map associated with a work item. Value range: N/A

Table 4-829 WorkItemLabelVO

Parameter	Type	Description
id	String	Definition: Label ID. Value range: The value must be a string of 18 or 19 characters.

Parameter	Type	Description
category	String	Definition: Object type. Value 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. Value range: raw requirement feature (system feature) requirement (R&D requirement) task bug
color	String	Definition: Tag color RGB. Value range: #86CAFF #6DDEBB #A6DD82 #FAC20A #FA9841 #F66F6A #F3689A #A97AF8 #71757F #5E7CE0 #207AB3 #169E6C #6CA83B #B58200 #B54E04 #B02121 #AD215B #572DB3 #4F4F4F #3C51A6

Parameter	Type	Description
title	String	Definition: Label title. Value range: The value is a string of 1 to 30 characters.
type	String	Definition: Data type of the current object. Value range: label
state	String	Definition: Lifecycle of a label. Value 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. Value range: N/A

Table 4-830 UserVO

Parameter	Type	Description
user_id	String	Definition: User ID. Value range: N/A
user_num_id	Integer	Definition: Short ID of a user. Value range: N/A

Parameter	Type	Description
user_name	String	Definition: Username. Value range: N/A
domain_id	String	Definition: ID of the domain to which the user belongs. Value range: N/A
domain_name	String	Definition: Tenant name. Value range: N/A
nick_name	String	Definition: User alias. Value range: N/A
role_id	String	Definition: Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. Value range: N/A
role_name	String	Definition: Role name. If a user has multiple roles, use commas (,) to separate the values. Value range: N/A

Table 4-831 AlmStatus

Parameter	Type	Description
id	String	Definition: Status ID. Value range: N/A

Parameter	Type	Description
belonging	String	Definition: Work item status. Value 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. Value range: N/A
name	String	Definition: Status name. Value range: N/A
code	String	Definition: Status code. Value 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. Value range: N/A

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. Value range: N/A
display_value	String	Definition: Status name, which is the same as the value of name . Value range: N/A
position	Integer	Definition: Position sequence. Value range: N/A
displayable	Integer	Definition: Display or not. Value range: N/A
editable	Integer	Definition: Editable or not. Value range: N/A
deletable	Integer	Definition: Deletable or not. Value range: N/A
mutable	Integer	Definition: Whether the status value is fixed. Value range: N/A

Parameter	Type	Description
title_py	String	Definition: Initial letters of a title. Value range: N/A
created_by	String	Definition: User ID of the creator. Value range: N/A
created_date	Integer	Definition: Creation time. The value is a UNIX timestamp in milliseconds. Value range: N/A
modified_date	Integer	Definition: Last modification time. The value is a UNIX timestamp in milliseconds. Value range: N/A
modified_by	String	Definition: ID of the last modifier. Value range: N/A
linkage_node_fields	Boolean	Definition: Whether to add the node owner/end time in the workflow configuration. Value 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.

Table 4-832 DomainVO

Parameter	Type	Description
id	String	Definition: Unique ID of a project space. Value range: N/A
name	String	Definition: Project space name. Value range: N/A
title	String	Definition: Project space name. Value range: N/A
project_id	String	Definition: 32-character UUID of a project space. Value range: N/A
parent_id	String	Definition: Parent project space ID of the project space, which is used only in programs. Value range: N/A
category	String	Definition: Project space type. Value range: Project Group: program
created_by	String	Definition: ID of the project space creator. Value range: N/A
model_id	String	Definition: Model ID corresponding to the project space. Value range: N/A

Table 4-833 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. Value range: In use: releases that can be operated normally Discarded: soft-deleted releases that can be restored from the recycle bin Deleted: permanently deleted releases that can be restored
status	String	Definition: Release/Sprint status. The value is of the enumerated type. Value range: planned: not started going: ongoing ended

Parameter	Type	Description
children	Array of PlanVO objects	Definition: Sub-project sprint information.
created_by	String	Definition: Creator ID. Value range: N/A
modified_by	String	Definition: ID of the last updater. Value range: N/A
plan_start_date	String	Definition: Planned start time, in the format of "yyyy-MM-dd". Example: 2024-01-01 . Value range: N/A
plan_end_date	String	Definition: Planned completion time, in the format of "yyyy-MM-dd". Example: 2024-01-01 . Value range: N/A
created_date	Long	Definition: Creation time, which is a Unix timestamp (unit: millisecond). Options: N/A
parent_id	String	Definition: Parent work item ID. Options: N/A
baseline	String	Definition: Baseline status. The value is of the enumerated type. Value range: baselined unbaseline: not baselined baseline-reviewing: baseline review in progress

Parameter	Type	Description
workload	String	Definition: Estimated workload. Options: N/A
owner	String	Definition: Owner ID. Options: N/A

Table 4-834 OptionVO

Parameter	Type	Description
id	String	Definition: Option ID. Value range: N/A
display_value	String	Definition: Option name. Value range: N/A
value	String	Definition: Unique ID of an option. The ID and value of a custom option are the same. Value range: N/A
code	String	Definition: Option code. Value range: N/A
value_py	String	Definition: Initial letter of the Chinese pinyin of the option name. Value range: N/A

Parameter	Type	Description
sequence	Integer	Definition: Option's position in the list. Value 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 . Value 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. Value range: N/A
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. Value 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 4-835 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Value range: N/A
error_msg	String	Definition: Error description, which is a supplement to error_code . Value 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": "||"
    }
  }, {
    "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

Response to a successful request for querying the work item list.

```
{
  "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",
      "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,
  "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"
} ]
}
```

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);

        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();
    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"
    ]
    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"
)

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{
    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.

Status Codes

Status Code	Description
200	Response to a successful request for querying the work item list.
400	Error message.

Error Codes

See [Error Codes](#).

4.13 IPD Field Template Management

4.13.1 Querying Field Templates

Function

This API is used to query field templates by work item type.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/categories/{category_id}/field/templates

Table 4-836 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Description: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of project_id in the response body is the project ID. Constraints: regular expression, <code>^[A-Za-z0-9]{32}\$</code> Default value: N/A
category_id	Yes	String	Definition: 5-digit ID of the work item type. Constraints: Regular expression: <code>^[\\d]{5}</code> Options: 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) IPD-self-operated software/cloud service: 10001 (epic), 10028 (FE), 10021 (RR), 10023 (US), 10027 (task), and 10033 (bug) Default value: N/A

Table 4-837 Query Parameters

Parameter	Mandatory	Type	Description
page	Yes	Integer	Definition: Page number. Constraints: Regular expression: $^{\wedge}(100 [1-9][0-9]? 1)$ Value range: [1, 100] Default value: N/A
size	Yes	Integer	Definition: Number of records on each page. Constraints: Regular expression: $^{\wedge}(1000 [1-9][0-9]\{1,2\} 10)$ Value range: [10, 1000] Default value: N/A

Request Parameters

Table 4-838 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints: Mandatory. Range: Minimum length: 10 character. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200**Table 4-839** Response body parameters

Parameter	Type	Description
page	PageVO object	Description: pagination information.
result	Array of FieldVO objects	Description: returned data.

Table 4-840 PageVO

Parameter	Type	Description
page	String	Definition: Current page. Options: N/A

Parameter	Type	Description
size	String	Definition: Number of records on each page. Options: N/A
count	String	Definition: Total number of data records. Options: N/A

Table 4-841 FieldVO

Parameter	Type	Description
display_name	String	Definition: Field name. Options: N/A
created_by	String	Definition: Field creator. Options: N/A
field_type	String	Definition: Field type. Options: N/A
show_on_card	Boolean	Definition: Whether to display on the creation page. Options: true (yes) and false (no)
optional	Boolean	Definition: Mandatory or not. Options: true (mandatory) and false (optional)

Parameter	Type	Description
all_options	Array of OptionEntity objects	Definition: Field options. Options: N/A
default_value	String	Definition: Default value. Options: N/A

Table 4-842 OptionEntity

Parameter	Type	Description
id	String	Definition: Option ID. Options: N/A
code	String	Definition: Code value of an option. Options: N/A
display_value	String	Definition: Option display name. Options: N/A
value	String	Definition: Unique option ID. Options: N/A
level	Integer	Definition: Number of option levels. Options: The maximum number of levels is 4.
sequence	Integer	Definition: Option sequence. Options: N/A

Parameter	Type	Description
parent_id	String	Definition: Parent option ID. Options: N/A

Example Requests

```
GEThttps://{endpoint}/v1/ipdprojectservice/projects/05c7d8bcf3db4829bc841e4ba93aaea5/categories/10021/field/templates?page=1&size=10
```

Example Responses

Status code: 200

Success response.

```
{
  "page": {
    "page": 1,
    "size": 10,
    "count": 15
  },
  "result": [ {
    "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 Codes

Status Code	Description
200	Success response.

Error Codes

See [Error Codes](#).

4.14 IPD Work Item Process

4.14.1 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](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-item/flow/transfer

Table 4-843 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Description: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of project_id in the response body is the project ID. Constraints: regular expression, <code>^[A-Za-z0-9]{32}\$</code> Default value: N/A

Request Parameters

Table 4-844 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints: Mandatory. Range: Minimum length: 10 character. Maximum length: 32,768 characters. Default value: N/A

Table 4-845 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Definition: Unique ID of a work item. Constraints: Regular expression: ^([0-9]{18,19})\$ Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
issue_category	Yes	String	Definition: Work item type. Constraints: Regular expression: ^(RR IR AR SR Bug FE Task US Epic SF) Options: RR, IR, AR, SR, Bug, FE, Task, US, Epic, and SF Default value: N/A
flow_code	Yes	String	Definition: Work item transition code. Constraints: Regular expression: ^[\s\S]{1,500} Options: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-846 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code. Options: N/A
message	String	Definition: Response message. Options: N/A

Example Requests

```
POST /v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/work-item/flow/transfer
```

```
{
  "id" : "1135239465657217024",
  "issue_category" : "Bug",
  "flow_code" : "__virtual_Analyse__2__Fixed"
}
```

Example Responses

Status code: 200

Success response.

```
{
  "status" : "success",
  "message" : null
}
```

Status Codes

Status Code	Description
200	Success response.

Error Codes

See [Error Codes](#).

4.15 IPD Workload Management

4.15.1 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](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-hour/query

Table 4-847 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-848 Request body parameters

Parameter	Mandatory	Type	Description
params	Yes	WorkHourParamVO object	Definition: Condition input parameter.
page_info	Yes	RequestPageInfoVO object	Definition: Pagination parameter.

Table 4-849 WorkHourParamVO

Parameter	Mandatory	Type	Description
plan_pi	No	Array of strings	Definition: Array of release plan IDs, which can be obtained using the Querying the Release/Sprint Plan Details API. The value of the id field in the response message body is the release plan ID. Constraints: N/A Options: N/A Default value: N/A
plan_iteration	No	Array of strings	Definition: Array of sprint plan IDs, which can be obtained using the Querying the Release/Sprint Plan Details API. The value of the id field in the response message body is the sprint plan ID. Constraints: N/A Options: N/A Default value: N/A
workitem_id	No	Array of strings	Definition: Array of work item IDs, which can be obtained using the Querying Work Item Details API. The value of the id field in the response message body is the work item ID. Constraints: N/A Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
created_by	No	Array of strings	Definition: Creator ID array. 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 Value range: N/A Default value: N/A

Table 4-850 RequestPageInfoVO

Parameter	Mandatory	Type	Description
offset	Yes	String	Definition: Offset. Constraints: Minimum value: 0 . Value range: Minimum value: 0 . Default value: 0
limit	Yes	String	Definition: Number of records displayed on each page. The maximum value is 200 . Constraints: N/A Options: Minimum value: 1 . Maximum value: 200 . Default value: N/A

Response Parameters

Status code: 200

Table 4-851 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Response body message.
result	Array of WorkHourInfoVO objects	Returned data.
page	PageVO object	Pagination information.

Table 4-852 WorkHourInfoVO

Parameter	Type	Description
workitem	workitem object	Definition: Work item information.
work_date	String	Definition: Work date, which is a Unix timestamp (unit: millisecond). Options: 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 . Options: N/A
work_hours	String	Definition: Workloads. Options: N/A

Table 4-853 workitem

Parameter	Type	Description
plan_pi	String	Definition: Release plan ID. Options: N/A
sum_workload_man_day	String	Definition: Actual workloads. Options: N/A
workload_man_day	String	Definition: Planned workloads. Options: N/A
convolution_plan_hours	String	Definition: Planned roll-up workloads. Options: N/A
convolution_actual_hours	String	Definition: Actual roll-up workloads. Options: N/A
id	String	Definition: Work item ID. Value range: N/A
plan_iteration	String	Definition: Sprint ID. Options: N/A

Table 4-854 UserEntity

Parameter	Type	Description
id	String	Definition: User ID. You can obtain the value using the API for obtaining the current user information. The value of id in the response body is the user ID. Constraints: N/A Value range: N/A Default value: N/A
name	String	Definition: Username. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 64 characters. Default value: N/A
nick_name	String	Definition: User alias. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 30 characters. Default value: N/A

Table 4-855 PageVO

Parameter	Type	Description
page	String	Current page.
size	String	Number of records on each page.
count	String	Total number of data records.

Status code: 400**Table 4-856** Response body parameters

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

Returning work hour and pagination information

```
{
  "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" : {
  "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](#).

4.15.2 Querying the Work Hour Type

Function

This API is used to query the work hour type.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/work-hour/options

Table 4-857 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-858 Query Parameters

Parameter	Mandatory	Type	Description
display_value	No	String	Definition: Display name. Fuzzy search is supported. Constraints: Minimum length: 0 characters. Maximum length: 30 characters. Options: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-859 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Message. Options: N/A
result	Array of WorkHourCategoryVO objects	Definition: Work type.

Table 4-860 WorkHourCategoryVO

Parameter	Type	Description
id	String	Definition: Work type ID. Options: N/A
value	String	Definition: Unique value of the work type. Options: R&D design, backend development, frontend development (web), frontend development (applet), frontend development (app), test and verification, defect rectification, UI design, meeting, public affairs, training, study, reassignment and leave, and other.

Parameter	Type	Description
code	String	Definition: Unique code of the work type. Options: R&D design, backend development, frontend development (web), frontend development (applet), frontend development (app), test and verification, defect rectification, UI design, meeting, public affairs, training, study, reassignment and leave, and other.
sequence	String	Definition: Sorting order. Options: N/A
display_value	String	Definition: Display name. Options: R&D design, backend development, frontend development (web), frontend development (applet), frontend development (app), test and verification, defect rectification, UI design, meeting, public affairs, training, study, reassignment and leave, and other.
value_py	String	Definition: Work type name abbreviation. Options: N/A

Status code: 400

Table 4-861 Response body parameters

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

Parameter	Type	Description
error_msg	String	Definition: Error description, which is a supplement to error_code . Value range: N/A

Example Requests

Searching for work hour types whose name contain **development**

```
{url}/v1/ipdprojectservice/projects/693d17d43d6340d782da7356efc584a7/work-hour/options?  
display_value=development
```

Example Responses

Status code: 200

Work hour type response body.

```
{  
  "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.
400	Failure response body.

Error Codes

See [Error Codes](#).

4.16 IPD Workflow

4.16.1 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](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/workflow-template

Table 4-862 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Description: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of project_id in the response body is the project ID. Constraints: regular expression, <code>^[A-Za-z0-9]{32}\$</code> Default value: N/A

Table 4-863 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	Definition: Work item type. Constraints: Regular expression: ^(RR IR AR SR Bug FE Task US Epic SF) Options: RR, IR, AR, SR, Bug, FE, Task, US, Epic, and SF Default value: N/A

Request Parameters

Table 4-864 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints: Mandatory. Range: Minimum length: 10 character. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-865 Response body parameters

Parameter	Type	Description
result	WorkflowTemplateVO object	Definition: Query result. Options: N/A
status	String	Definition: Status code. Options: N/A
message	String	Definition: Response message. Options: N/A

Table 4-866 WorkflowTemplateVO

Parameter	Type	Description
processNodes	Array of WorkflowTemplateNodesVO objects	Definition: Status information in a status flow. Options: N/A
processFlows	Array of WorkflowTemplateFlowsVO objects	Definition: Transition line information in a status flow. Options: N/A

Table 4-867 WorkflowTemplateNodesVO

Parameter	Type	Description
name	String	Definition: Status name. Options: N/A

Table 4-868 WorkflowTemplateFlowsVO

Parameter	Type	Description
before_rule_validator	Array of WorkflowTemplateConfigsVO objects	Definition: Pre-transition verification. Options: N/A
before_rule_configs	Array of WorkflowTemplateConfigsVO objects	Definition: In-transition page configuration. Options: N/A
from_code	String	Definition: Entry status of a transition line. Options: N/A
to_code	String	Definition: Exit status of a transition line. Options: N/A

Table 4-869 WorkflowTemplateConfigsVO

Parameter	Type	Description
configValue	Array of Map<String,String> objects	Definition: Operation item configuration. Options: N/A

Example Requests

```
GEThttps://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/workflow-template?issue_category=RR
```

Example Responses

Status code: 200

Success response.

```
{
  "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 Codes

Status Code	Description
200	Success response.

Error Codes

See [Error Codes](#).

4.16.2 Querying Workflow Field Configuration

Function

This API is used to query workflow field configuration.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/workflow-template/issue/fields

Table 4-870 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Description: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of project_id in the response body is the project ID. Constraints: regular expression, <code>^[A-Za-z0-9]{32}\$</code> Default value: N/A

Table 4-871 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	Definition: Work item type. Constraints: Regular expression: <code>^(RR IR AR SR Bug FE Task US Epic SF)</code> Options: RR, IR, AR, SR, Bug, FE, Task, US, Epic, and SF Default value: N/A

Request Parameters

Table 4-872 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints: Mandatory. Range: Minimum length: 10 character. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-873 Response body parameters

Parameter	Type	Description
result	Object	Definition: Query result. Options: N/A
status	String	Definition: Status code. Options: N/A
message	String	Definition: Response message. Options: N/A

Example Requests

```
GEThttps://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/workflow-template/issue/fields?issue_category=RR
```

Example Responses

Status code: 200

Success response.

```
{
  "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 Codes

Status Code	Description
200	Success response.

Error Codes

See [Error Codes](#).

4.17 IPD Status Management

4.17.1 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](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/category/{category_id}/statuses

Table 4-874 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Description: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of project_id in the response body is the project ID. Constraints: regular expression, <code>^[A-Za-z0-9]{32}\$</code> Default value: N/A
category_id	Yes	String	Definition: 5-digit ID of the work item type. Constraints: Regular expression: <code>^[\\d]{5}</code> Options: 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) IPD-self-operated software/cloud service: 10001 (epic), 10028 (FE), 10021 (RR), 10023 (US), 10027 (task), and 10033 (bug) Default value: N/A

Request Parameters

Table 4-875 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints: Mandatory. Range: Minimum length: 10 character. Maximum length: 32,768 characters. Default value: N/A

Response Parameters

Status code: 200**Table 4-876** Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of queried records. Options: N/A
result	Array of StatusVO objects	Definition: Query result. Options: N/A
status	String	Definition: Status code. Options: N/A

Parameter	Type	Description
message	String	Definition: Response message. Options: N/A

Table 4-877 StatusVO

Parameter	Type	Description
name	String	Definition: Status name. Options: N/A
belonging	String	Definition: Work item status. Options: START, IN_PROGRESS, and END

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 Codes

Status Code	Description
200	ok

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](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/tags

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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-879 Query Parameters

Parameter	Mandatory	Type	Description
title	No	String	Tag name.

Parameter	Mandatory	Type	Description
label_type	No	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-880 Response body parameters

Parameter	Type	Description
result	LabelListResponse object	Tag details.
status	String	Definition: Response status. Value range: success: The response is successful. error: The response failed.
message	String	Returned error message.

Table 4-881 LabelListResponse

Parameter	Type	Description
data	Array of LabelEntity objects	Tag list.
total	Integer	Total number of tags.

Table 4-882 LabelEntity

Parameter	Type	Description
id	String	Definition: Label ID, which is the value of id in the response body returned by calling the Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
color	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A
title	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A

Parameter	Type	Description
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Status code: 400

Table 4-883 Response body parameters

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

Example Requests

Querying the tags whose titles contain 11 in a bug

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags?  
title=11&label_type=bug
```

Example Responses

Status code: 200

OK

```
{
  "status": "success",
  "result": {
    "data": [
      {
        "id": "1030082514003210240",
        "label_type": "bug",
        "color": "#A97AF8",
        "title": "Bug11"
      }
    ],
    "total": 7
  }
}
```

Status code: 400

Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

```
{
  "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](#).

4.18.2 Creating a Tag

Function

This API is used to create a tag.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/tags

Table 4-884 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-885 Request body parameters

Parameter	Mandatory	Type	Description
color	Yes	String	Tag color, which is optional when used as an update parameter. Available color codes: #86CAFF , #6DDEBB , #A6DD82 , #FAC20A , #FA9841 , #F66F6A , #F3689A , #A97AF8 , #71757F , #5E7CE0 , #207AB3 , #169E6C , #6CA83B , #B58200 , #B54E04 , #B02121 , #AD215B , #572DB3 , #4F4F4F , and "#3C51A6" .
title	Yes	String	Tag title, which can contain a maximum of 30 characters. It is optional when used as an update parameter.

Parameter	Mandatory	Type	Description
label_type	No	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Response Parameters

Status code: 200

Table 4-886 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Response.
result	Array of LabelCreateResult objects	Label details.

Table 4-887 LabelCreateResult

Parameter	Type	Description
id	String	Definition: Label ID, which is the value of id in the response body returned by calling the Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A
color	String	Definition: Label RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Value range: N/A Default value: N/A

Parameter	Type	Description
title	String	Definition: Label title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A

Status code: 400**Table 4-888** Response body parameters

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

Example Requests

Creating R&D requirement tags

POST https://{endpoint}/v3/projects/b54914d464d1498a97d683ef198ec448/tags

```
{  
  "title" : "Tag-RR-01",  
  "color" : "#A6DD82",  
  "label_type" : "requirement"  
}
```

Example Responses**Status code: 200**

OK

```
{  
  "status" : "success",
```

```
"message" : "ok",
"result" : {
  "id" : "1250583934720716801",
  "color" : "#A6DD82",
  "title" : "Tag-RR-01",
  "label_type" : "requirement"
}
```

Status code: 400

Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

```
{
  "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](#).

4.18.3 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](#).

URI

PUT /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}

Table 4-889 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A 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 Querying the Label List API. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-890 Request body parameters

Parameter	Mandatory	Type	Description
color	Yes	String	Tag color, which is optional when used as an update parameter. Available color codes: #86CAFF , #6DDEBB , #A6DD82 , #FAC20A , #FA9841 , #F66F6A , #F3689A , #A97AF8 , #71757F , #5E7CE0 , #207AB3 , #169E6C , #6CA83B , #B58200 , #B54E04 , #B02121 , #AD215B , #572DB3 , #4F4F4F , and "#3C51A6" .
title	Yes	String	Tag title, which can contain a maximum of 30 characters. It is optional when used as an update parameter.
label_type	No	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Response Parameters

Status code: 200

Table 4-891 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Response.
result	Array of LabelUpdateResult objects	Label details.

Table 4-892 LabelUpdateResult

Parameter	Type	Description
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A
color	String	Definition: Label RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Value range: N/A Default value: N/A

Parameter	Type	Description
title	String	Definition: Label title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A

Status code: 400

Table 4-893 Response body parameters

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

Example Requests

Updating the tag title

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags/1030868827803529217
```

```
{
  "title" : "Tag-RR-01",
  "color" : "#A6DD82",
  "label_type" : "requirement"
}
```

Example Responses

Status code: 200

OK

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

```
"message" : "ok",
"result" : {
  "color" : "#A6DD82",
  "title" : "Tag-RR-01",
  "label_type" : "requirement"
}
```

Status code: 400

Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

```
{
  "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](#).

4.18.4 Deleting a Tag

Function

This API is used to delete a tag.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}

Table 4-894 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A 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 Querying the Label List API. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-895 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: success: The response is successful. error: The response failed.
message	String	Response message.
result	LabelEntity object	Tag details.

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 Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
color	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A

Parameter	Type	Description
title	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Status code: 400**Table 4-897** Response body parameters

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

Example Requests

Deleting a Specified Tag

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags/1030868827803529217
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "id" : "1030868827803529217"
  }
}
```

Status code: 400

Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

```
{
  "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](#).

4.19 IPD Statistics Overview

4.19.1 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](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/statistic/dashboard

Table 4-898 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-899 Query Parameters

Parameter	Mandatory	Type	Description
classification	Yes	String	Definition: Statistics type. Constraints: Regular expression: (requirement bug) Options: requirement and bug requirement: queries requirement statistics. bug: queries bug statistics. Default value: N/A

Request Parameters

Table 4-900 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 Value range: The value contains 10 to 32,768 characters. Default value: N/A

Table 4-901 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

Table 4-902 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 Querying the Release/Sprint Plan List API. The id in PlanVO in the returned parameters is the release plan ID. Constraints: Regular expression: [0-9]{18,19} Value 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: Regular expression: [0-9]{18,19} Value range: N/A Default value: N/A

Table 4-903 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: Regular expression: [0-9]{13,19} Options: 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: Regular expression: [0-9]{13,19} Options: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-904 Response body parameters

Parameter	Type	Description
result	Array of DashboardSimpleVO objects	Definition: Statistical result.

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Request failure information. Options: N/A

Table 4-905 DashboardSimpleVO

Parameter	Type	Description
category	String	Definition: Work item type. Options: For system device projects, the options are RR , SF , IR , SR , AR , Task , and Bug . For standalone software projects, the options are RR , SF , IR , US , Task , and Bug . For cloud service projects, the options are RR , Epic , FE , US , Task , and Bug .
total	Integer	Definition: Total number of work items. Options: N/A
processing	Integer	Definition: Number of work items being processed. Options: N/A
completed	Integer	Definition: Number of completed work items. Options: N/A

Parameter	Type	Description
expired	Integer	Definition: Number of overdue work items. Options: N/A
remain_di	Double	Definition: DI of unresolved bugs. The statistical scope includes all non-closed and non-draft bugs in the project. Options: $DI = \text{Warning} \times 0.1 + \text{Minor} \times 1 + \text{Major} \times 3 + \text{Critical} \times 10$
category_name	String	Definition: Statistics panel name. Options: N/A

Status code: 400

Table 4-906 Response body parameters

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

Example Requests

```
https://{endpoint}/v1/ipdprojectservice/projects/a75f1c34cbf24e5fbbbc154dd823cd8e/statistic/dashboard?classification=bug  
  
{ }
```

Example Responses

Status code: 200

Statistics success response.

```
{
  "status": "success",
  "message": null,
  "result": [ {
    "category": "RR",
    "total": 0,
    "processing": 0,
    "completed": 0,
    "expired": 0,
    "category_name": "Raw requirement."
  }, {
    "category": "SF",
    "total": 2,
    "processing": 1,
    "completed": 0,
    "expired": 0,
    "category_name": "System feature"
  }, {
    "category": "IR",
    "total": 2,
    "processing": 1,
    "completed": 0,
    "expired": 1,
    "category_name": "Initial requirement"
  }, {
    "category": "SR",
    "total": 1,
    "processing": 0,
    "completed": 0,
    "expired": 0,
    "category_name": "System requirement"
  }, {
    "category": "AR",
    "total": 1,
    "processing": 0,
    "completed": 0,
    "expired": 0,
    "category_name": "Allocated requirement"
  }, {
    "category": "Task",
    "total": 1,
    "processing": 0,
    "completed": 0,
    "expired": 0,
    "category_name": "Task"
  }, {
    "category": "Bug",
    "total": 5,
    "processing": 0,
    "completed": 0,
    "expired": 0,
    "category_name": "Bug"
  } ]
}
```

Status code: 400

Response indicating collection failure

```
{
  "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](#).

4.20 IPD Configuration Management

4.20.1 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](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/fields

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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-908 Query Parameters

Parameter	Mandatory	Type	Description
keyword	No	String	Definition: Keyword search by title, field type, and creator. Constraints: N/A Options: N/A Default value: N/A
offset	Yes	Integer	Definition: Pagination offset. Constraints: The value must be a multiple of limit . Options: Minimum value: 0 . Default value: N/A

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Definition: Number of records displayed on each page Constraints: N/A Options: Minimum value: 1. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-909 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Request failure information. Options: N/A
result	FieldListResult object	Definition: Field list.

Table 4-910 FieldListResult

Parameter	Type	Description
data	Array of FieldEntity objects	Definition: Field list.

Parameter	Type	Description
total	Integer	Definition: Total number of fields in a project. Options: N/A

Table 4-911 FieldEntity

Parameter	Type	Description
display_name	String	Definition: Field name. Value range: N/A
code	String	Definition: Field code. Options: N/A
id	String	Definition: Field ID. Options: N/A
description	String	Definition: Field description. Options: N/A
created_by	String	Definition: Field creator name. Value range: N/A
created_date	String	Definition: Time when a field is created, in timestamp format, for example, 1715305846000 . Value range: N/A

Parameter	Type	Description
modified_by	String	Definition: Last updater name of a field. Value range: N/A
definition_type	String	Definition: Field level. Value range: 1, 2, and 3 (system-preset field) 4 (tenant-defined field) 5 (project-defined field)
field_type_name	String	Definition: Field type name. Options: N/A
required	Boolean	Definition: Whether the field is mandatory in the work item. If the field is inconsistent with the workflow configuration, the workflow prevails. Value range: true (mandatory) false (optional)
controlled	Boolean	Definition: Whether the field is controlled in the work item. If the controlled field in the baselined work item is changed, the change review process is required. If the field is inconsistent with the workflow configuration, the workflow prevails. Value range: true (controlled) false (non-controlled)

Parameter	Type	Description
immutable	Boolean	Definition: Whether a field can be modified in the work item. If the value is inconsistent with the workflow configuration, the workflow prevails. Value range: true (cannot be modified) false (can be modified)
no	Integer	Definition: Field sequence number. Options: N/A
all_options	Array of OptionEntity objects	Definition: Field option.

Table 4-912 OptionEntity

Parameter	Type	Description
id	String	Option ID.
code	String	Option code value.
display_value	String	Definition: Option name. Value range: N/A
value	String	Unique ID of an option.
level	Integer	Option level, which is used to distinguish field levels. A maximum of four levels are supported.
sequence	Integer	Option sequence.
parent_id	String	Parent option ID.

Example Requests

Querying fields by keyword

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/fields?offset=0&limit=1
```

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.20.2 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](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/status

Table 4-913 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-914 Query Parameters

Parameter	Mandatory	Type	Description
categories	Yes	String	Definition: Work item type. Constraints: Minimum length: 2 characters. Maximum length: 128 characters. Options: 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. For cloud service projects, options include RR, Epic, FE, US, Task, and Bug. Multiple work item types can be supported, which are separated by commas (,), for example, IR,SR,AR. Work item types that are not transferred to the project are filtered out. Default value: N/A

Request Parameters

Table 4-915 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 Value range: The value contains 10 to 32,768 characters. Default value: N/A

Response Parameters

Status code: 200**Table 4-916** Response body parameters

Parameter	Type	Description
result	StatusListResult object	Definition: Status list.
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Error message. Options: N/A

Table 4-917 StatusListResult

Parameter	Type	Description
status	Array of StatusEntity objects	Definition: Status list.

Table 4-918 StatusEntity

Parameter	Type	Description
id	String	Definition: Status ID. Value range: N/A
belonging	String	Definition: Work item status. Options: START, IN_PROGRESS, and END
display_value	String	Definition: Status. Options: N/A
code	String	Definition: Unique status ID. Options: N/A
created_by	String	Definition: Status creator. Options: N/A
created_time	String	Definition: Status creation time. Options: N/A
modified_by	String	Definition: Status modifier. Options: N/A

Parameter	Type	Description
modified_time	String	Definition: Latest modification time of a status. Options: N/A
category_code	Array of strings	Definition: Work items that use the status.

Status code: 400**Table 4-919** Response body parameters

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

Example Requests

```
https://{endpoint}/v1/ipdprojectservice/projects/336ad84c67ea4783b2edc1bb5a112da0/status?categories=FE,IR
```

Example Responses**Status code: 200**

OK

```
{
  "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",
  "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" ]
}, {
  "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.02175903",
  "error_msg": "Work item type error"
}
{
  "error_code" : "PM.PM.02176813",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	OK
400	{ "error_code": "PM.02175903", "error_msg": "Work item type error" }

Error Codes

See [Error Codes](#).

4.21 IPD Project Plan Management

4.21.1 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](#).

URI

GET /v1/planservice/projects/{project_id}/plans/query

Table 4-920 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: <code>^[A-Za-z0-9]{32}\$</code> Value range: N/A Default value: N/A

Table 4-921 Query Parameters

Parameter	Mandatory	Type	Description
key_word	Yes	String	Definition: Release/Sprint name. Constraints: N/A Options: N/A Default value: N/A
updated_time_interval	Yes	String	Definition: Release/Sprint update time, which is a Unix timestamp (unit: millisecond). Examples: 1576114296000 and 1576114396000 Constraints: Regular expression: ([1-9][0-9]{0,12})?(,)?([1-9][0-9]{0,12})? Options: N/A Default value: N/A

Request Parameters

Table 4-922 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 Value range: 10–32,768 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-923 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Prompt information. Options: N/A
result	Array of PlanVO objects	Definition: Plan list.
page	page object	Definition: Plan list page.

Table 4-924 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

Parameter	Type	Description
description	String	Definition: Description Options: N/A
state	String	Definition: Discard flag. The value is of the enumerated type. Value range: In use: releases that can be operated normally Discarded: soft-deleted releases that can be restored from the recycle bin Deleted: permanently deleted releases that can be restored
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. Value range: N/A
modified_by	String	Definition: ID of the last updater. Value range: N/A
plan_start_date	String	Definition: Planned start time, in the format of "yyyy-MM-dd". Example: 2024-01-01 . Value range: N/A

Parameter	Type	Description
plan_end_date	String	Definition: Planned completion time, in the format of "yyyy-MM-dd". Example: 2024-01-01 . Value range: N/A
created_date	Long	Definition: Creation time, which is a Unix timestamp (unit: millisecond). Options: N/A
parent_id	String	Definition: Parent work item ID. Options: N/A
baseline	String	Definition: Baseline status. The value is of the enumerated type. Value range: baselined unbaseline: not baselined baseline-reviewing: baseline review in progress
workload	String	Definition: Estimated workload. Options: N/A
owner	String	Definition: Owner ID. Options: N/A

Table 4-925 page

Parameter	Type	Description
page	Integer	Definition: Page number. Options: N/A
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 4-926 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

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

OK

```
{  
  "status": "success",  
  "message": null,  
  "result": [ {  
    "id": "956200745322848257",  
    "title": "IR-01",  
    "category": "PI",  
    "description": "Description",  
    "state": "In use",  
    "status": "ended",  
    "children": null,  
  } ]  
}
```

```
"created_by" : "a360371833bf4c558f796fd707b44daf",
"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
}
```

Status Codes

Status Code	Description
200	OK
400	The error message is returned.

Error Codes

See [Error Codes](#).

4.21.2 Querying Release/Sprint Plan Details

Function

This API is used to query release/sprint plan details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/planservice/projects/{project_id}/plans/{plan_id}

Table 4-927 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: 32-character UUID of a project, which must be unique. Obtain the value by calling the API for Querying the Project List. The value of project_id in the response message body is the project ID. Constraints: Regular expression: ^[A-Za-z0-9]{32}\$ Value range: N/A Default value: N/A
plan_id	Yes	String	Description: Unique ID of a release/sprint. You can obtain the value using the API for querying the release/sprint plan list in section "IPD Project Plan Management". The value of the id field in the response message body is the release/sprint ID. Constraints: Regular expression: ^([0-9]{18,19})\$ Default value: N/A

Request Parameters

Table 4-928 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 Value range : 10–32,768 characters. Default value : N/A

Response Parameters

Status code: 200**Table 4-929** Response body parameters

Parameter	Type	Description
status	String	Definition : Returned status. Value range : success : The response is successful. error : The response failed.
message	String	Prompt message.
result	PlanVO object	Return value of the created plan.

Table 4-930 PlanVO

Parameter	Type	Description
id	String	Definition : ID of a release, sprint, or milestone. Value range : N/A

Parameter	Type	Description
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. Value range: In use: releases that can be operated normally Discarded: soft-deleted releases that can be restored from the recycle bin Deleted: permanently deleted releases that can be restored
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. Value range: N/A

Parameter	Type	Description
modified_by	String	Definition: ID of the last updater. Value range: N/A
plan_start_date	String	Definition: Planned start time, in the format of "yyyy-MM-dd". Example: 2024-01-01 . Value range: N/A
plan_end_date	String	Definition: Planned completion time, in the format of "yyyy-MM-dd". Example: 2024-01-01 . Value range: N/A
created_date	Long	Definition: Creation time, which is a Unix timestamp (unit: millisecond). Options: N/A
parent_id	String	Definition: Parent work item ID. Options: N/A
baseline	String	Definition: Baseline status. The value is of the enumerated type. Value range: baselined unbaseline: not baselined baseline-reviewing: baseline review in progress
workload	String	Definition: Estimated workload. Options: N/A

Parameter	Type	Description
owner	String	Definition: Owner ID. Options: N/A

Status code: 400

Table 4-931 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

Example Requests

```
GET https://{endpoint}/v1/planservice/projects/22f601108007420da5a90b4a30c09f83/plans/1113849585474641920
```

Example Responses

Status code: 200

OK

```
{
  "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"  
}  
}
```

Status code: 400

The error message is returned.

```
{  
  "error_msg" : "Invalid project_id or other parameters",  
  "error_code" : "AS.0001"  
}
```

Status Codes

Status Code	Description
200	OK
400	The error message is returned.

Error Codes

See [Error Codes](#).

4.22 IPD Module Management

4.22.1 Querying the Module Tree Diagram

Function

This API is used to query the module tree diagram.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/modules/tree

Table 4-932 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-933 Query Parameters

Parameter	Mandatory	Type	Description
key_word	No	String	Definition: Currently, only search by name keyword is supported. Constraints: N/A Options: N/A Default value: N/A
sort	No	String	Definition: Sorting rule. By default, the creation time (descending) is used, that is, the latest creation is displayed on the top. Constraints: N/A Options: N/A Default value: created_date

Parameter	Mandatory	Type	Description
sort_type	No	String	Definition: Sort order. Constraints: N/A Value range: asc: ascending desc: descending Default value: desc
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 Options: Minimum value: 0. Maximum value: 350 Default value: 0
limit	No	Integer	Definition: Number of records displayed on each page Constraints: N/A Options: Minimum value: 1 . Maximum value: 100 . Default value: 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-934 Response body parameters

Parameter	Type	Description
result	ModuleListResult object	Definition: Module list.
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Error message. Options: N/A

Table 4-935 ModuleListResult

Parameter	Type	Description
modules	Array of ModuleEntity objects	Definition: Module list.
total	Integer	Definition: Total number of modules. A maximum of 350 modules (including sub-modules) are allowed in a project. Options: Maximum value: 350 .

Table 4-936 ModuleEntity

Parameter	Type	Description
id	String	Definition: Module ID. Options: N/A

Parameter	Type	Description
sequence	String	Definition: Module sequence value, which is of the double type. Options: N/A
level	Integer	Definition: Module level. A maximum of three levels are supported. Options: 1, 2, and 3
description	String	Definition: Module description. Options: N/A
created_by	String	Definition: Module creator ID. Options: N/A
created_time	String	Definition: Creation time, which is a Unix timestamp (unit: millisecond). Options: N/A
modified_by	String	Definition: ID of the last modifier of the module. Options: N/A
modified_time	String	Definition: Last modification time of a module, which is a Unix timestamp (unit: millisecond). Options: N/A
display_value	String	Definition: Module display name. Options: N/A

Parameter	Type	Description
path_name	String	Definition: Path name of the sub-module. Options: N/A
value	String	Definition: Unique ID of a module. You can customize the value and ID of a module. Options: N/A
parent_id	String	Definition: Parent module ID. Options: N/A
child_modules	Array of ModuleEntity objects	Definition: Child module information.
assignee	String	Definition: Module owner ID. Options: N/A

Status code: 400**Table 4-937** Response body parameters

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

Example Requests

```
https://{endpoint}/v1/ipdprojectservice/projects/336ad84c67ea4783b2edc1bb5a112da0/modules/tree?offset=0&limit=20&sort_type=asc
```

Example Responses

Status code: 200

OK

```
{
  "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 message.

```
{
  "error_code": "PM.02174103",
}
```

```
"error_msg" : "Incorrect pagination parameter."  
}
```

Status Codes

Status Code	Description
200	OK
400	Error message.

Error Codes

See [Error Codes](#).

4.23 IPD Project Management

4.23.1 Querying the IPD Project List

Function

This API is used to query the IPD project list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/ipdprojectservice/projects/ipd

Table 4-938 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition: Project name keyword. Constraints: Maximum length: 256 characters. Options: N/A Default value: N/A

Parameter	Mandatory	Type	Description
model	No	String	Definition: IPD project model ID. Constraints: N/A Options: 10001: system device 10002: standalone software 10003: cloud service Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-939 Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Failure information. Options: N/A
result	Array of ProjectInfoVO objects	Definition: Project information list.

Table 4-940 ProjectInfoVO

Parameter	Type	Description
id	String	Definition: Project ID. Options: N/A
name	String	Definition: Project name. Options: N/A
project_type	String	Definition: Project type. Value range: ipd: IPD project scrum: Scrum project xboard: Kanban project
domain_id	String	Definition: ID of the domain to which the project belongs. Options: N/A
model_id	String	Definition: IPD project model ID. Options: 10001: system device 10002: standalone software 10003: cloud service

Example Requests

```
/v1/ipdprojectservice/projects/ipd?search=&model=
```

Example Responses

Status code: 200

Success response

```
{  
  "status" : "success",  
  "message" : null,  
  "result" : [ {  
    "id" : "e44fbbd512b6470886b0f95663d4789a",  
    "name" : "IPD-Self-Operated Software/Cloud Service-0403-0",
```

```
"project_type" : "ipd",  
"domain_id" : "982241044173205505",  
"model_id" : "10003"  
}]  
}
```

Status Codes

Status Code	Description
200	Success response

Error Codes

See [Error Codes](#).

4.24 IPD Attachment Management

4.24.1 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](#).

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/attachments/
upload

Table 4-941 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A 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 Value range: N/A Default value: N/A

Request Parameters

Table 4-942 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	Definition: Attachment. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-943 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: success: The response is successful. error: The response failed.
message	String	Definition: Failure information. Options: N/A
result	Array of AttachmentVoExt objects	Definition: Attachment upload information.

Table 4-944 AttachmentVoExt

Parameter	Type	Description
progress	Integer	Definition: Upload progress. Options: N/A
id	String	Definition: Attachment ID. Value range: N/A
workitem_id	String	Definition: Work item ID. Value range: N/A
store_filename	String	Definition: File name. Value range: N/A
associate_type	String	Definition: Association type. Value range: N/A
disk_directory	String	Definition: Relative path for storing attachments on the server. Value range: N/A
type	String	Definition: Type. Value range: attachment: The metadata type is attachment.
category	String	Definition: Metadata type. Value range: Attachment: The metadata type is attachment.

Parameter	Type	Description
issue_category	String	Definition: Work item type. Value range: N/A
status	String	Definition: Attachment status. Value range: N/A
description	String	Definition: Attachment description. Value range: N/A
modified_by	UserCommonVO object	Modifier.
created_by	UserCommonVO object	Definition: Creator.
domain_id	String	Definition: ID of the domain to which the project belongs. Value range: N/A
attachment_type	String	Definition: File type. Value range: N/A
created_date	String	Definition: Creation timestamp. Value range: N/A
storage_service	String	Definition: Name of the backend service that processes attachments. Value range: N/A

Parameter	Type	Description
storage_id	String	Definition: Storage ID used in the database. Value range: N/A
delete_flag	Boolean	Definition: Deleted or not. Value range: false: not deleted true: deleted
filesize	Long	Definition: File size. Options: N/A
title	String	Definition: Actual name of the server. Value range: N/A

Table 4-945 UserCommonVO

Parameter	Type	Description
user_id	String	Definition: User ID. Value range: N/A
user_num_id	Integer	Definition: Short ID of a user. Value range: N/A
user_name	String	Definition: Username. Value range: N/A

Parameter	Type	Description
domain_id	String	Definition: ID of the domain to which the user belongs. Value range: N/A
domain_name	String	Definition: Tenant name. Value range: N/A
nick_name	String	Definition: User alias. Value range: N/A
role_id	String	Definition: Role ID. If a user has multiple roles in a project, use commas (,) to separate the values. Value range: N/A
role_name	String	Definition: Role name. If a user has multiple roles, use commas (,) to separate the values. Value range: N/A
image_id	String	Definition: User avatar. Value range: N/A
region	String	Definition: Region to which a user belongs. Value range: N/A
watcher	Integer	Definition: Observer. Value range: N/A

Parameter	Type	Description
opinion	String	Definition: Review information. Value range: N/A
description	String	Definition: Description. Value range: N/A
owner	String	Definition: Current handler. Value range: N/A
ccbId	String	Definition: Review object ID. Value range: N/A
status	Integer	Definition: Status. Value range: N/A
has_removed	String	Definition: Whether the user has been removed from the project. Value range: N/A

Status code: 400**Table 4-946** Response body parameters

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

Parameter	Type	Description
error_msg	String	Definition: Error description, which is a supplement to error_code . Value range: N/A

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
```

```
-----WebKitFormBoundary1kuNerRnRVybt65
```

```
Content-Disposition: form-data; name="attachment"; filename="demo.PNG"
```

```
Content-Type: image/png
```

Example Responses

Status code: 200

Response to a successful request for uploading an attachment.

```
{
  "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,
      "ccblId": 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,
    "owner" : null,
    "ccbld" : 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

Response to the attachment upload failure, such as no operation permission and the work item has been deleted.

```
{
  "error_code" : "PM.02175145",
  "error_msg" : "The work item has been deleted."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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:

```
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 CreateIpdProjectIssueAttachmentSolution {

    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();
CreatelPdProjectIssueAttachmentRequest request = new CreatelPdProjectIssueAttachmentRequest();
request.withProjectId("{project_id}");
request.withIssueId("{issue_id}");
try {
    CreatelPdProjectIssueAttachmentResponse response =
client.createPdProjectIssueAttachment(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 **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:

```
# 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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

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

    try:
```

```
request = CreateIpdProjectIssueAttachmentRequest()
request.project_id = "{project_id}"
request.issue_id = "{issue_id}"
response = client.create_ipd_project_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

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:

```
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.CreateIpdProjectIssueAttachmentRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    response, err := client.CreateIpdProjectIssueAttachment(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 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](#).

4.24.2 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](#).

URI

GET /v1/ipdprojectservice/projects/{project_id}/attachments/download/{id}

Table 4-947 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A
id	Yes	String	Attachment ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-948 Response body parameters

Parameter	Type	Description
-	File	Attachment.

Status code: 400

Table 4-949 Response body parameters

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

Parameter	Type	Description
error_msg	String	Definition: Error description, which is a supplement to error_code . Value range: N/A

Example Requests

```
{url}/v1/ipdprojectservice/projects/68158c24d6d14e48bab08befefae150f/attachments/download/984773880527626241
```

Example Responses

Status code: 400

Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

```
{
  "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()
            .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"
    "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.
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](#).

4.24.3 Uploading an Image to the Work Item Description

Function

This API is used to upload an image to the work item description.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/ipdprojectservice/projects/{project_id}/images

Table 4-950 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-951 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	Description: 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: Regular expression: ^([0-9]{18,19})\$ Default value: N/A

Request Parameters

Table 4-952 FormData parameters

Parameter	Mandatory	Type	Description
file	Yes	File	Image to be uploaded. Currently, JPG, JPEG, PNG, GIF, BMP, TIFF, and SVG images are supported.

Response Parameters

Status code: 200

Table 4-953 Response body parameters

Parameter	Type	Description
status	String	Request status. If the request is successful, the status is success . If the request fails, an exception is thrown.
message	String	Request information. Generally, this field is left blank.
result	IssueEntity object	Work item details.

Table 4-954 IssueEntity

Parameter	Type	Description
id	String	Definition: ID of the work item to be updated. You can obtain the value from the Querying Tree-shaped Work Items API. The value is id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
title	String	Definition: Work item title. You can obtain the value from the Querying Tree-shaped Work Items API. The value is title in the response body. Constraints: Minimum length: 1 character. Maximum length: 256 characters. Options: N/A Default value: N/A
description	String	Definition: Work item description. You can obtain the value from the Querying Tree-shaped Work Items API. The value is description in the response body. Constraints: Minimum length: 1 character. Maximum length: 500,000 characters. Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Value range: requirement (R&D requirement) bug task feature raw_requirement (raw requirement) Default value: N/A
number	String	Definition: Work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is number in the response body. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Options: N/A Default value: N/A

Parameter	Type	Description
category	String	Definition: Subcategory of work item. You can obtain the value from the Querying Tree-shaped Work Items API. The value is category in the response body. Constraints: N/A Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A
parent_id	String	Definition: Parent work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is parent_id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Parameter	Type	Description
status	String	Definition: Work item status code. You can obtain the value from the Querying the Work Item Status API. The value is code in the response body. Constraints: Minimum length: 2 characters. Maximum length: 32 characters. Value range: N/A Default value: N/A
state	String	Definition: Work item lifecycle. The options are In use and Discarded . You can obtain the value from the Querying Tree-shaped Work Items API. The value is state in the response body. Constraints: Minimum length: 2 characters. Maximum length: 8 characters. Value 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 Default value: N/A
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.

Parameter	Type	Description
created_time	String	Definition: Work item creation time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
modified_by	UserEntity object	Definition: Late updater of a work item.
modified_time	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
plan_end_date	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
close_time	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
workload	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Constraints: N/A Options: 0-999,999,999.9 Default value: N/A
workload_sum	String	Definition: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0-999,999,999.9. The value cannot be edited. Constraints: Minimum length: 0 characters. Maximum length: 11 characters. Options: 0-999,999,999.9 Default value: N/A

Parameter	Type	Description
tenant_id	String	Definition: ID of the tenant to which the work item belongs. You can obtain the value from the Querying Tree-shaped Work Items API. The value is tenant_id in the response body. Constraints: 32 characters. Value range: N/A Default value: N/A
link	String	Definition: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the Querying Tree-shaped Work Items API. The value is link in the response body. Constraints: Minimum length: 0 characters. Maximum length: 2,048 characters. Value range: N/A Default value: N/A
suspended	Boolean	Definition: Whether a work item is suspended. Constraints: N/A Options: true and false Default value: N/A

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. Constraints: N/A Options: N/A Default value: N/A
labels	Array of LabelEntity objects	Definition: Work item tag.
custom_fields	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "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 sub-work item. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
ir2feature	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Options: N/A Default value: N/A
need_break	String	Definition: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. Constraints: N/A Options: N/A Default value: N/A
break_status	String	Definition: Breakdown status. Constraints: N/A Value range: decomposed: broken down undecomposed: not broken down Empty: N/A Default value: N/A

Parameter	Type	Description
baseline	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Constraints: N/A Options: null , baselined , and baseline-reviewing Default value: N/A
priority	String	Definition: Work item priority. Some work items have this field. Constraints: N/A Options: N/A Default value: N/A
related_network_security	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
collaboratives	String	Definition: R&D requirement collaboration task ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is collaboratives in the response body. Constraints: Minimum length: 0 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A
business_domain	String	Definition: Domain field. Constraints: N/A Options: N/A Default value: N/A
plan_pi	String	Definition: Work item release plan ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is plan_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is plan_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
change_status	String	Definition: Work item change status. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Value range: change-reviewing: under change review changed: changed unchange: unchanged null: unchanged Default value: N/A
no_break_reason	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Constraints: Minimum length: 0 characters. Maximum length: 512 characters. Options: N/A Default value: N/A
submitted_by	Array of UserEntity objects	Definition: Work item proposer.

Parameter	Type	Description
ir2rr	String	Definition: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. Constraints: N/A Value range: N/A Default value: N/A
feature_set	String	Definition: Feature set ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is feature_set in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is found_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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 Querying Tree-shaped Work Items API. The value is found_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
reason_analysis	String	Definition: Cause analysis. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
repair_solution	String	Definition: Rectification solution. This field is available only for bugs. Constraints: Minimum length: 0 characters. Maximum length: 50,000 characters. Options: N/A Default value: N/A
test_report	String	Definition: Test report. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_no_repair_reason	String	Definition: Reason why rectification is not required. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_activation_reason	String	Definition: Activation reason. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
sys_return_reason	String	Definition: Reason for return. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
test_failures_times	Integer	Definition: Number of times that regression failed. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
close_type	String	Definition: Closure type. Constraints: N/A Value 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	UserEntity object	Definition: Work item planning owner.
doing_owner	UserEntity object	Definition: Work item implementation owner.
delivered_owner	UserEntity object	Definition: Work item delivery owner.

Parameter	Type	Description
checking_owner	UserEntity object	Definition: Work item acceptance owner.
test_owner	UserEntity object	Definition: Work item testing owner.
develop_owner	UserEntity object	Definition: Work item development owner.
processing_owner	UserEntity object	Definition: Work item processing owner.
fixed_owner	UserEntity object	Definition: Work item fixing owner.
researchanddevelop_owner	UserEntity object	Definition: Work item R&D owner.
analyse_owner	UserEntity object	Definition: Work item analysis owner.

Table 4-955 LabelEntity

Parameter	Type	Description
id	String	Definition: Label ID, which is the value of id in the response body returned by calling the Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
color	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A
title	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Table 4-956 FieldCodeValuePair

Parameter	Type	Description
code	String	Definition: Work item field code. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Options: N/A Default value: N/A
value	String	Definition: Custom field value of a work item. Use commas (,) to separate multiple values. Constraints: Minimum length: 0 characters. Maximum length: 10,000 characters. Options: N/A Default value: N/A

Table 4-957 UserEntity

Parameter	Type	Description
id	String	Definition: User ID. You can obtain the value using the API for obtaining the current user information. The value of id in the response body is the user ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 64 characters. Default value: N/A
nick_name	String	Definition: User alias. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 30 characters. Default value: N/A

Example Requests

None

Example Responses

Status code: 200

Uploaded successfully

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "1061975230944026625",
    "title" : "Task-01",
    "description" : "<p>[Background] </p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p>",
    "number" : "TASK20241109690657",
    "category" : "Task",
    "status" : "Start",
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "created_time" : "2024-11-09T11:50:25Z",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "modified_time" : "2024-11-09T11:50:25Z",
```

```
"custom_fields" : [ ]  
}  
}
```

Status Codes

Status Code	Description
200	Uploaded successfully

Error Codes

See [Error Codes](#).

4.24.4 Deleting an Image from the Work Item Description

Function

This API is used to delete an image from the work item description.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/ipdprojectservice/projects/{project_id}/images

Table 4-958 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-959 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	Description: 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: Regular expression: ^([0-9]{18,19})\$ Default value: N/A
file_name	Yes	String	Image name in the work item description, for example, f401ab8826b1426285910e6c5da80d07.png .

Request Parameters

None

Response Parameters

Status code: 200

Table 4-960 Response body parameters

Parameter	Type	Description
status	String	Request status. If the request is successful, the status is success . If the request fails, an exception is thrown.
message	String	Request information. Generally, this field is left blank.
result	IssueEntity object	Work item details.

Table 4-961 IssueEntity

Parameter	Type	Description
id	String	Definition: ID of the work item to be updated. You can obtain the value from the Querying Tree-shaped Work Items API. The value is id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
title	String	Definition: Work item title. You can obtain the value from the Querying Tree-shaped Work Items API. The value is title in the response body. Constraints: Minimum length: 1 character. Maximum length: 256 characters. Options: N/A Default value: N/A
description	String	Definition: Work item description. You can obtain the value from the Querying Tree-shaped Work Items API. The value is description in the response body. Constraints: Minimum length: 1 character. Maximum length: 500,000 characters. Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Value range: requirement (R&D requirement) bug task feature raw_requirement (raw requirement) Default value: N/A
number	String	Definition: Work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is number in the response body. Constraints: Minimum length: 0 characters. Maximum length: 128 characters. Options: N/A Default value: N/A

Parameter	Type	Description
category	String	Definition: Subcategory of work item. You can obtain the value from the Querying Tree-shaped Work Items API. The value is category in the response body. Constraints: N/A Value 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 . For cloud service projects, options include RR , Epic , FE , US , Task , and Bug . Default value: N/A
parent_id	String	Definition: Parent work item ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is parent_id in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: Regular expression: [A-Za-z0-9]{32} Value range: N/A Default value: N/A

Parameter	Type	Description
status	String	Definition: Work item status code. You can obtain the value from the Querying the Work Item Status API. The value is code in the response body. Constraints: Minimum length: 2 characters. Maximum length: 32 characters. Value range: N/A Default value: N/A
state	String	Definition: Work item lifecycle. The options are In use and Discarded . You can obtain the value from the Querying Tree-shaped Work Items API. The value is state in the response body. Constraints: Minimum length: 2 characters. Maximum length: 8 characters. Value 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 Default value: N/A
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.

Parameter	Type	Description
created_time	String	Definition: Work item creation time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
modified_by	UserEntity object	Definition: Late updater of a work item.
modified_time	String	Definition: Last update time of the work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
plan_end_date	String	Definition: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
close_time	String	Definition: Work item closure time, which is a Unix timestamp (unit: millisecond). Constraints: N/A Options: N/A Default value: N/A
workload	String	Definition: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. Constraints: N/A Options: 0-999,999,999.9 Default value: N/A
workload_sum	String	Definition: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0-999,999,999.9. The value cannot be edited. Constraints: Minimum length: 0 characters. Maximum length: 11 characters. Options: 0-999,999,999.9 Default value: N/A

Parameter	Type	Description
tenant_id	String	Definition: ID of the tenant to which the work item belongs. You can obtain the value from the Querying Tree-shaped Work Items API. The value is tenant_id in the response body. Constraints: 32 characters. Value range: N/A Default value: N/A
link	String	Definition: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the Querying Tree-shaped Work Items API. The value is link in the response body. Constraints: Minimum length: 0 characters. Maximum length: 2,048 characters. Value range: N/A Default value: N/A
suspended	Boolean	Definition: Whether a work item is suspended. Constraints: N/A Options: true and false Default value: N/A

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. Constraints: N/A Options: N/A Default value: N/A
labels	Array of LabelEntity objects	Definition: Work item tag.
custom_fields	Array of FieldCodeValuePair objects	Definition: Custom field mapping of a work item. System fields added by users are also in this column. { "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 sub-work item. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
ir2feature	String	Definition: Associated field between IR and FE. This field is available when the work item type is IR. Constraints: N/A Options: N/A Default value: N/A
need_break	String	Definition: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. Constraints: N/A Options: N/A Default value: N/A
break_status	String	Definition: Breakdown status. Constraints: N/A Value range: decomposed: broken down undecomposed: not broken down Empty: N/A Default value: N/A

Parameter	Type	Description
baseline	String	Definition: Work item baseline status. The options are: null: unbaselined baselined: baselined baseline-reviewing: being reviewed Constraints: N/A Options: null , baselined , and baseline-reviewing Default value: N/A
priority	String	Definition: Work item priority. Some work items have this field. Constraints: N/A Options: N/A Default value: N/A
related_network_security	String	Definition: Whether network security is involved. This field is available only for R&D requirements. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
collaboratives	String	Definition: R&D requirement collaboration task ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is collaboratives in the response body. Constraints: Minimum length: 0 characters. Maximum length: 256 characters. Value range: N/A Default value: N/A
business_domain	String	Definition: Domain field. Constraints: N/A Options: N/A Default value: N/A
plan_pi	String	Definition: Work item release plan ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is plan_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is plan_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
change_status	String	Definition: Work item change status. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Value range: change-reviewing: under change review changed: changed unchange: unchanged null: unchanged Default value: N/A
no_break_reason	String	Definition: Reason for breakdown nonnecessity. This field is available when need_break is set to no . Constraints: Minimum length: 0 characters. Maximum length: 512 characters. Options: N/A Default value: N/A
submitted_by	Array of UserEntity objects	Definition: Work item proposer.

Parameter	Type	Description
ir2rr	String	Definition: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. Constraints: N/A Value range: N/A Default value: N/A
feature_set	String	Definition: Feature set ID. You can obtain the value from the Querying Tree-shaped Work Items API. The value is feature_set in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
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 Querying Tree-shaped Work Items API. The value is found_pi in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: 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 Querying Tree-shaped Work Items API. The value is found_iteration in the response body. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A
reason_analysis	String	Definition: Cause analysis. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
repair_solution	String	Definition: Rectification solution. This field is available only for bugs. Constraints: Minimum length: 0 characters. Maximum length: 50,000 characters. Options: N/A Default value: N/A
test_report	String	Definition: Test report. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_no_repair_reason	String	Definition: Reason why rectification is not required. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
sys_activation_reason	String	Definition: Activation reason. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A

Parameter	Type	Description
sys_return_reason	String	Definition: Reason for return. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
test_failures_times	Integer	Definition: Number of times that regression failed. This field is available only for bugs. Constraints: N/A Options: N/A Default value: N/A
close_type	String	Definition: Closure type. Constraints: N/A Value 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	UserEntity object	Definition: Work item planning owner.
doing_owner	UserEntity object	Definition: Work item implementation owner.
delivered_owner	UserEntity object	Definition: Work item delivery owner.

Parameter	Type	Description
checking_owner	UserEntity object	Definition: Work item acceptance owner.
test_owner	UserEntity object	Definition: Work item testing owner.
develop_owner	UserEntity object	Definition: Work item development owner.
processing_owner	UserEntity object	Definition: Work item processing owner.
fixed_owner	UserEntity object	Definition: Work item fixing owner.
researchanddevelop_owner	UserEntity object	Definition: Work item R&D owner.
analyse_owner	UserEntity object	Definition: Work item analysis owner.

Table 4-962 LabelEntity

Parameter	Type	Description
id	String	Definition: Label ID, which is the value of id in the response body returned by calling the Querying the Label List API. Constraints: Regular expression: ^([0-9]{18,19})\$ Value range: N/A Default value: N/A

Parameter	Type	Description
color	String	Definition: Tag RGB color. Constraints: Minimum length: 0 characters. Maximum length: 16 characters. Options: N/A Default value: N/A
title	String	Definition: Tag title. Constraints: Minimum length: 2 characters. Maximum length: 256 characters. Options: N/A Default value: N/A
label_type	String	Definition: Work item type of a tag. Use commas (,) to separate multiple values. Constraints: N/A Value range: feature raw requirement requirement (R&D requirement) task bug Default value: N/A

Table 4-963 FieldCodeValuePair

Parameter	Type	Description
code	String	Definition: Work item field code. Constraints: Minimum length: 0 characters. Maximum length: 32 characters. Options: N/A Default value: N/A
value	String	Definition: Custom field value of a work item. Use commas (,) to separate multiple values. Constraints: Minimum length: 0 characters. Maximum length: 10,000 characters. Options: N/A Default value: N/A

Table 4-964 UserEntity

Parameter	Type	Description
id	String	Definition: User ID. You can obtain the value using the API for obtaining the current user information. The value of id in the response body is the user ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 64 characters. Default value: N/A
nick_name	String	Definition: User alias. Constraints: N/A Value range: Minimum length: 2 characters. Maximum length: 30 characters. Default value: N/A

Status code: 400**Table 4-965** Response body parameters

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

Example Requests

```
/v2/ipdprojectservice/projects/e2569a971657464f810949e839ec5640/images?  
issue_id=1071125987320569856&file_name=f401ab8826b1426285910e6c5da80d07.png
```

Example Responses

Status code: 200

Deleted successfully

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "1061975230944026625",
    "description" : "<p>[Task Background]</p>\n<p><br></p>\n<p>[Task Value]</p>\n<p><br></p>\n<p>[Task Details]</p>",
    "category" : "Task",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "modified_time" : "2024-12-05T10:07:31Z",
    "custom_fields" : [ ]
  }
}
```

Status code: 400

Response upon a request failure. For example, the user does not have the operation permission or the project does not exist.

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Deleted 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](#).

4.24.5 Downloading an Image in the Work Item Description

Function

This API is used to download an image from the work item description.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/ipdprojectservice/projects/{project_id}/images

Table 4-966 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 Querying the IPD Project List API. The value of id in the response message body is the project ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-967 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	Description: 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: Regular expression: ^([0-9]{18,19})\$ Default value: N/A

Parameter	Mandatory	Type	Description
file_name	Yes	String	Definition: Name of the image in the work item description. Constraints: Regular expression: [A-Za-z0-9]{32} (.png .jpg .jpeg .gif .bmp .tiff .svg) Options: N/A Default value: N/A
field_code	No	String	Definition: Rich text field code. Constraints: N/A Options: Maximum length: 64 characters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-968 Response body parameters

Parameter	Type	Description
-	File	Image content.

Example Requests

```
/v2/ipdprojectservice/projects/e2569a971657464f810949e839ec5640/images?  
issue_id=1071125987320569856&file_name=f401ab8826b1426285910e6c5da80d07.png
```

Example Responses

Status code: 200

Image content.

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "1061975230944026625",
    "title" : "Task-01",
    "description" : "<p>[Background] </p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p>",
    "number" : "TASK20241109690657",
    "category" : "Task",
    "status" : "Start",
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "created_time" : "2024-11-09T11:50:25Z",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "modified_time" : "2024-11-09T11:50:25Z",
    "custom_fields" : [ ]
  }
}
```

Status Codes

Status Code	Description
200	Image content.

Error Codes

See [Error Codes](#).

4.25 REST APIs for All Issue Severity Operations

4.25.1 Querying All Severities

Function

This API is used to query all severities.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/issue-severity/all

Request Parameters

Table 4-969 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain the token by calling the Obtaining a User Token IAM API. In the returned response header, X-Subject-Token is the desired user token. Constraints : Mandatory. Range : Minimum length: 10 character. Maximum length: 32,768 characters. Default value : N/A

Response Parameters

Status code: 200

Table 4-970 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.

Table 4-971 result

Parameter	Type	Description
severities	Array of severities objects	Definition: Severity.

Table 4-972 severities

Parameter	Type	Description
id	Integer	Definition: Enumerated ID of severity. Value 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

Table 4-973 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 4-974** 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: 403**Table 4-975** 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

This API is used to query the JSON strings of all severities.

```
{
  "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.

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.getErrMsg());
        }
    }
}
```

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.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    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)
    }
}
```

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](#).

5 Application Examples

5.1 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://example.com/v4/projects?project_type=scrum&search=ProjectTestCase&offset=0&limit=1`
- Response example

```
{
  "projects": [
    {
      "project_num_id": 3844012,
      "project_id": "ec147b681fb64e019a6bcd73ebdf3597",
      "project_name": "ProjectTestCaseYRXI",
      "description": "fdas",
```



```
"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
}
```

5.2 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://excmample.com/v4/projects/3cea7d4d77134eee8251825918a8bd7a/iterations**

- Response example

```
{
  "iterations": [
    {
      "id": 707961817,
      "name": "Sprint 1",
      "description": "",
      "begin_time": "2020/06/07",
      "end_time": "2020/07/06"
    },
  ],
}
```

```
{
  "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
}
```

5.3 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://example.com/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues`
- Request body

```
{
  "status_ids": [1],
  "limit": 1
}
```

- 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": "pcedgeXXXXXX"
      },
      "creator": {
        "id": 4091,
        "name": "test001",
        "nick_name": "pcedgeXXXXXX"
      },
      "developer": {
        "id": 0,
        "name": null,
        "nick_name": null
      }
    }
  ],
}
```

```
"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://exsample.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": "pcedgeXXXXXX"  
      },  
      "comment": "<p>This is a test example.</p>"  
    },  
  ],  
  "total": 1  
}
```

6 Appendix

6.1 Status Codes

Table 6-1 describes status codes.

Table 6-1 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.

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.

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.

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.

6.2 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.

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 6-2 Error codes

Status Code	Error Code	Error Message	Description	Solution
400	PM.02150 010	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.02150 301	Deletion failed.	Deletion failed.	Change the user role to another one before deleting the user.
400	PM.02150 302	The permissions cannot be changed.	The permissions cannot be changed.	Do not change the permissions.
400	PM.02150 303	The role does not exist.	The role does not exist.	Verify request parameters.
400	PM.02150 304	The role name is unavailable. Set a new name.	The role name is unavailable. Set a new name.	Set a new name.
400	PM.02150 305	The role name conflicts with another one.	The role name conflicts with another one.	Set a new name.
400	PM.02150 404	The project space does not exist.	The project space does not exist.	Check the project space.
400	PM.02151 001	The program does not exist.	The program does not exist.	Check the program.
400	PM.02152 001	Invalid parameter.	Invalid parameter.	Correct the parameter.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02152 002	Undefined error.	Undefined error.	Correct the error.
400	PM.02152 003	Invalid argument name.	Invalid argument name.	Correct the argument name.
400	PM.02152 004	The program is not archived.	The program is not archived.	Archive the program.
400	PM.02152 005	Project does not exist or has been deleted.	Project does not exist or has been deleted.	Check the project information.
400	PM.02152 006	The program has not been followed.	The program has not been followed.	Follow the program first.
400	PM.02152 007	The program has been followed.	The program has been followed.	No need to follow the program again.
400	PM.02152 008	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.02152 009	The program has been archived.	The program has been archived.	No need to archive the program again.
400	PM.02152 010	The project type is not allowed.	The project type is not allowed.	Use a correct project type.
400	PM.02152 011	The project has been associated.	The project has been associated.	No need to associate the project again.
400	PM.02153 001	Too frequent access. Try again later.	Too frequent access. Try again later.	Try again later.
400	PM.02175 006	Invalid Parameter: {0}.	Invalid parameter.	Retry with a correct request parameter.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02175 101	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.02175 103	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.02175 104	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.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02175 105	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.02175 106	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.02175 111	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.02175 113	Parent IR not exists.	The parent IR does not exist.	Create child IRs under a correct parent IR.
400	PM.02175 114	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.02175 115	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.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02175 200	Missing required field {0}.	Mandatory fields are missing.	Add mandatory fields and try again.
400	PM.02175 201	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.02175 202	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.10001 002	Invalid token.	Invalid token.	Use a valid token.
400	PM.10002 006	The name of the current tenant has been used.	The name of the current tenant has been used.	Use another tenant name.
400	PM.10002 010	The description cannot exceed 500 characters.	The description cannot exceed 500 characters.	Enter a description of no more than 500 characters.
400	PM.10002 011	Invalid name.	Invalid name.	Use a valid name.
400	PM.10003 002	The current user has insufficient permissions.	The current user has insufficient permissions.	Assign the current user corresponding permissions.
400	PM.10003 003	Invitation expired.	Invitation expired.	Re-obtain an invitation.
400	PM.10003 004	The review information does not exist.	The review information does not exist.	Check the review information.
400	PM.10003 005	The label is in use.	The label is in use.	Check the label status.

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.

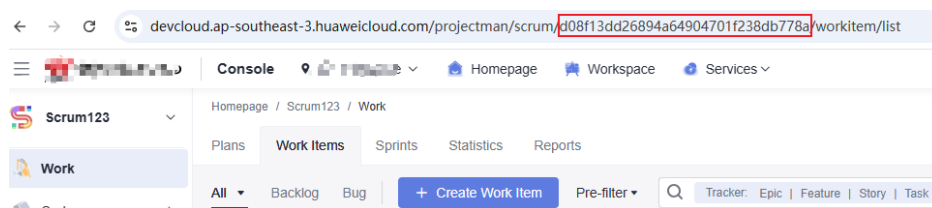
Status Code	Error Code	Error Message	Description	Solution
404	PM.02175005	Requested resource not exist.	The requested resource does not exist.	Confirm the requested resources. (The ID may be incorrect or the resource has been deleted.)
405	PM.10003013	An application for joining the project already exists and is waiting for approval.	An application for joining the project already exists and is waiting for approval.	Wait for approval.

6.3 Obtaining a Project ID

6.3.1 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

6.3.2 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"
  }
}
```

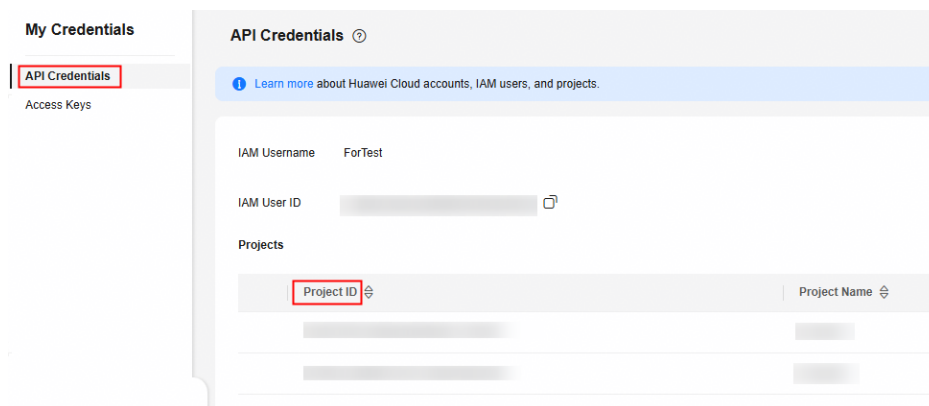
Obtaining a Project ID from the Console

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.



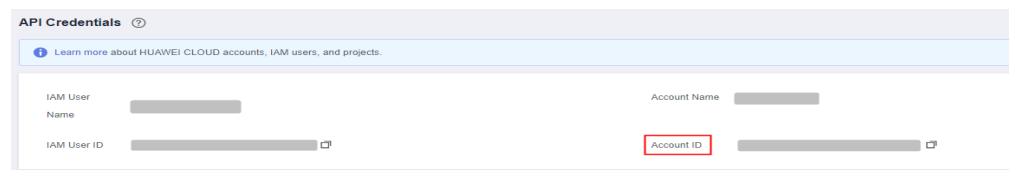
6.4 Obtaining an Account ID

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 6-1 Obtaining an account ID



7 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