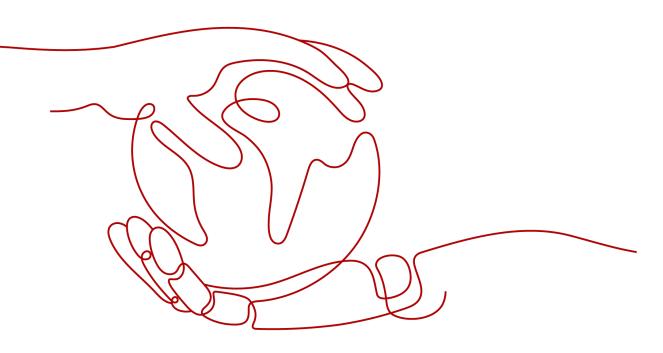
# **CodeArts Req**

# **User Guide**

 Issue
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 Date
 2024-12-04





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# CodeArts Req Usage Process

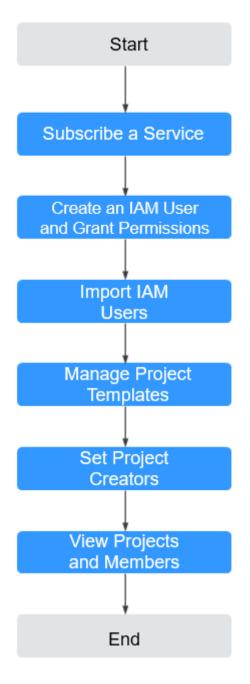
#### Background

CodeArts Req is a project management and collaboration service for agile software development teams, including multi-project management, agile sprint management, Kanban collaboration, requirement management, defect tracking, document management, online wiki collaboration, and chart customization on dashboards.

#### Procedure

Before applying a project, the tenant administrator needs to perform the following management settings.

#### Figure 1-1 Project preparations



# **2** Purchasing and Authorizing CodeArts Req

#### Prerequisites

You have registered a HUAWEI ID and enabled Huawei Cloud services.

#### **Enabling CodeArts Pipeline**

You need to subscribe to a CodeArts package before using CodeArts Pipeline.

- **Step 1** Access the **CloudPipeline console**.
- **Step 2** Click **Buy** to purchase a CodeArts package.
- **Step 3** Purchase a package as needed. For details, see **Purchasing CodeArts**.

# $\mathbf{3}_{\mathbf{Accessing the CodeArts Req Homepage}}$

#### Prerequisites

You have purchased CodeArts Req.

#### Accessing the CodeArts Req Page

- Step 1 Log in to the Huawei Cloud console.
- Step 2 Click in the upper left corner and choose Developer Services > CodeArts Req from the service list.
- **Step 3** Click **Access Service**. The CodeArts homepage is displayed, showing the list of projects that you have joined. Click a project card to go to the CodeArts Req page. Click I in the upper left corner of the page and select a region.

# **4** Creating a CodeArts Project

# 4.1 Using a Project Template

In CodeArts, **projects** are the basis for using services. Operations such as requirement planning, code management, build, and deployment must be performed in CodeArts projects. CodeArts provides multiple preset project templates for different requirement management processes.

#### Prerequisites

Before creating a CodeArts project, you must have permission to create a project.

#### **NOTE**

If the **Create Project** button is not displayed on the homepage, you do not have permission to create projects. In this case, contact the administrator to obtain the permission. For details about how to grant the project creator permission to users, see **Configuring a CodeArts Project Creator**.

#### Creating a CodeArts Project Using a Project Template

CodeArts provides multiple out-of-the-box project templates, including Scrum, IPD, and Kanban. You can select a project template based on your service scenario.

- **Step 1** Click **Create Project** on the service homepage.
- **Step 2** On the **Select Template** page, select a project template as required. For details about the characteristics and application scenarios of each project template, see **Project template features and application scenarios**.

Project Template	Feature	Application Scenario
Scrum	An incremental, iterative software development method. Sprint planning, daily Scrum, sprint review, and sprint retrospectives are key to efficient project management.	Iterative, incremental software development.
IPD-System Device	Software and hardware adaptation involved, fixed product requirements, industry standards available, long development period (6–9 months), high requirements on product quality and stability, many decisions to make, and mainly waterfall development.	Complex products with embedded software that evolves with hardware. Examples: communications devices, automobiles, home appliances, and consumer electronics.
IPD-Standalone Software	Independent software deployment and sales, frequent requirement changes, quick planning, agile development, agile release, and short delivery period (2–3 months or faster).	IT application and platform software with standardized hardware or independent of dedicated hardware. Examples: ERP software, CRM, databases, and network management software.

Table 4-1 Project template features and application scenarios
---

**Step 3** Select a project template and click **Select**. On the **Create Project** page, set related parameters.

Table 4-2	Creating	a project
-----------	----------	-----------

Parameter	Description
Work Item Template	A work item template contains all configuration items of a Scrum project, except those in <b>Work Item &gt; Statuses</b> <b>and Transitions &gt; Automation &gt; Change Handler</b> . You can select a template as required to quickly reuse the work item configuration data of the project.
	In addition to the default Scrum template of the system, you can customize a work item template. To customize a work item setting template, open a project, go to the <b>Settings</b> > <b>Work Item</b> page, and save the custom template. <b>NOTE</b> <b>Work Item Template</b> is available only for Scrum projects.

Parameter	Description	
Name	Set this parameter as required.	
	The name of projects under the same tenant must be unique.	
	Enter only letters, digits, and underscores (_) with a maximum of 128 characters.	
Code	This parameter is set for third-party services. A project code is set to facilitate service management.	
	The value can contain a maximum of 200 characters, including letters, digits, underscores (_), and hyphens (-).	
Associated Enterprise Project (Resource Group)	You can manage your underlying resources such as VMs, containers, and databases in enterprise projects.	
	Associated Enterprise Project (Resource Group) is available only for Scrum and Kanban projects.	
Description	Enter a brief description of the project.	
	Enter only letters, digits, and underscores (_) with a maximum of 1,024 characters.	

**Step 4** Click **OK**. The project is created successfully and the project page is displayed.

----End

#### **Related Operations**

For a new project, members with the edit permission can choose **Settings** > **General** and perform the following operations.

**NOTE** 

Only Scrum and Kanban projects can be archived.

 Table 4-3 Basic operations on a project

Operatio n	Procedure	Remarks
Edit basic project informati on	<ol> <li>Choose Basic Information.</li> <li>Modify the project name, code, description, and enterprise project as required, and click Save. The modified information is displayed.</li> </ol>	-

Operatio n	Procedure	Remarks
Transfer the project creator	<ol> <li>Choose Basic Information.</li> <li>Select the member to transfer the project to from the Creator drop-down list, and click Save. The new creator is displayed.</li> </ol>	If the project creator is deleted from IAM, the project ownership is automatically transferred to the project manager. If the project creator is also the project manager, the project ownership is transferred to the administrator account.
Archive a project	<ol> <li>Choose Basic Information.</li> <li>Click Archive. Then the button changes to Unarchive.</li> </ol>	<ul> <li>Archived projects are read-only to all members. The members cannot add, delete, or modify work items.</li> <li>Archived projects are still counted.</li> </ul>
Delete a project	<ol> <li>Choose Basic Information.</li> <li>Click Delete Project. In the displayed dialog box, enter the project name and click Delete. The deleted project is no longer displayed on the homepage.</li> </ol>	<ul> <li>Deleting a project will also delete its code repositories, check tasks, build tasks, and test cases.</li> <li>Deleted data cannot be recovered. Exercise caution when performing this operation.</li> </ul>
Manage the project service menu	<ol> <li>Choose Services.</li> <li>Select the menus to display.</li> <li>Refresh the page. The updated menus are displayed in the navigation pane.</li> </ol>	-

Operatio n	Procedure	Remarks
Manage project members / permissio ns	<ol> <li>Click <b>Permissions</b>.</li> <li>Refer to Managing CodeArts Project Permissions.</li> </ol>	-

# 4.2 Using a Sample Project

Sample projects use **default templates** that include work items and processes preset in CodeArts Req. After you select a sample project, the corresponding sample template project is automatically generated for your reference. The work items and code preset in the sample project can be directly used.

#### Prerequisites

Before creating a CodeArts project, you must have permission to create a project.

**NOTE** 

If the **Create Project** button is not displayed on the homepage, you do not have permission to create projects. In this case, contact the administrator to obtain the permission. For details about how to grant the project creator permission to users, see **Configuring a CodeArts Project Creator**.

#### Creating a CodeArts Project Using a Sample Project

- **Step 1** Click **Create Project** on the service homepage.
- **Step 2** On the **Select Template** page, select a sample project to create a project. **Table 4-4** lists the supported sample projects.

Project Type	Project Name	Application Scenario
Scrum	DevOps Full- Process	Agile development and DevOps continuous delivery through an automated E2E process. The templates have preset mind maps and instantiated Scrum work items (promotion, member, and order management), code repositories, code check tasks, build tasks, and pipeline tasks.
IPD	IPD-System Device	Complex products with embedded software that evolves with hardware. Examples: communications devices, automobiles, home appliances, and consumer electronics.

Table 4-	4 Sample	projects
----------	----------	----------

Project Type	Project Name	Application Scenario
	IPD-Standalone Software	IT application and platform software with standardized hardware or independent of dedicated hardware. Examples: ERP software, CRM, databases, and network management software.
	IPD-Self- Operated Software/Cloud Service	Cloud service development, microservice architecture, and self-operated software scenarios, such as public cloud and Internet application software.

#### **Step 3** Select a sample project. On the **Create Project** page, set related parameters.

Parameter	Description	
Work Item Template	A work item template contains all configuration items of a Scrum project, except those in <b>Work Item &gt; Statuses</b> <b>and Transitions &gt; Automation &gt; Change Handler</b> . You can select a template as required to quickly reuse the work item configuration data of the project.	
	In addition to the default Scrum template of the system, you can customize a work item template. To customize a work item setting template, open a project, go to the <b>Settings</b> > <b>Work Item</b> page, and save the custom template.	
	NOTE Work Item Template is available only for Scrum projects.	
Name	Set this parameter as required.	
	The name of projects under the same tenant must be unique.	
	Enter only letters, digits, and underscores (_) with a maximum of 128 characters.	
Code	This parameter is set for third-party services. A project code is set to facilitate service management.	
	The value can contain a maximum of 200 characters, including letters, digits, underscores (_), and hyphens (-).	
Associated Enterprise Project (Resource Group)	You can manage your underlying resources such as VMs, containers, and databases in enterprise projects. NOTE	
	Associated Enterprise Project (Resource Group) is available only for Scrum and Kanban projects.	
Description	Enter a brief description of the project.	
	Enter only letters, digits, and underscores (_) with a maximum of 1,024 characters.	

Table	4-5	Creating	а	project
-------	-----	----------	---	---------

**Step 4** Click **OK**. The project is created successfully and the project page is displayed.

----End

#### **Related Operations**

For a new project, members with the edit permission can choose Settings > General and perform the following operations.

**NOTE** 

Only Scrum and Kanban projects can be archived.

Operatio n	Procedure	Remarks
Edit basic project informati on	<ol> <li>Choose Basic Information.</li> <li>Modify the project name, code, description, and enterprise project as required, and click Save. The modified information is displayed.</li> </ol>	-
Transfer the project creator	<ol> <li>Choose Basic Information.</li> <li>Select the member to transfer the project to from the Creator drop-down list, and click Save. The new creator is displayed.</li> </ol>	If the project creator is deleted from IAM, the project ownership is automatically transferred to the project manager. If the project creator is also the project manager, the project ownership is transferred to the administrator account.
Archive a project	<ol> <li>Choose Basic Information.</li> <li>Click Archive. Then the button changes to Unarchive.</li> </ol>	<ul> <li>Archived projects are read-only to all members. The members cannot add, delete, or modify work items.</li> <li>Archived projects are still counted.</li> </ul>

Table 4-6	Basic	operations	on a	project
	Dabie	operations	011 0	project

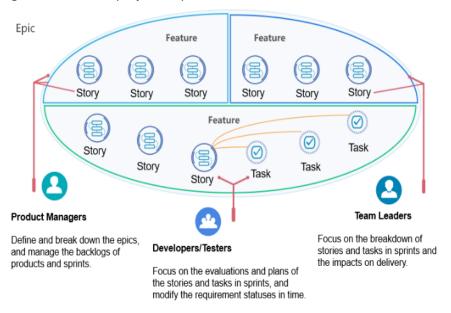
Operatio n	Procedure	Remarks
Delete a project	<ol> <li>Choose Basic Information.</li> <li>Click Delete Project. In the displayed dialog box, enter the project name and click Delete. The deleted project is no longer displayed on the homepage.</li> </ol>	<ul> <li>Deleting a project will also delete its code repositories, check tasks, build tasks, and test cases.</li> <li>Deleted data cannot be recovered. Exercise caution when performing this operation.</li> </ul>
Manage the project service menu	<ol> <li>Choose Services.</li> <li>Select the menus to display.</li> <li>Refresh the page. The updated menus are displayed in the navigation pane.</li> </ol>	-
Manage project members / permissio ns	<ol> <li>Click <b>Permissions</b>.</li> <li>Refer to Managing CodeArts Project Permissions.</li> </ol>	-

# **5** Managing Scrum Project Requirements

## 5.1 Requirement Management Process

Scrum is an incremental, iterative, and agile software development method. It enables continuous delivery through sprints, which are cycles of closed-loop software development from user requirements management to user feedback implementation.

In Scrum projects, requirements can be managed in the four-layer hierarchy: **Epic** > **Feature** > **Story** > **Task**, as shown in **Figure 5-1**.



#### Figure 5-1 Scrum project requirement breakdown model

Table 5-1 describes the work item types used by Scrum projects.

Work Item Type	Description	Example
Epic	<ul> <li>An epic is a key strategy of an enterprise, such as the major business direction or technical evolution. By discovering, defining, investing in, managing, and implementing epics, enterprises can realize their strategies and gain market shares and returns.</li> <li>Since an epic is a high-level description of requirements, it needs to be broken down into features, which are further divided into stories for development and delivery.</li> <li>It usually takes several months, or multiple sprints to deliver an epic. Epics should be visible to all developers so that they can understand the strategic meaning and values of the tobe-delivered stories in a bigger picture.</li> </ul>	<ul> <li>An epic is defined based on an enterprise's operations, competitiveness, and market environment. Examples are as follows:</li> <li>Market differentiation: Deliver better user experience than competitors.</li> <li>Better solution: Develop a solution for the industrial Internet.</li> <li>Revenue growth: Increase paid users by 1 million in the next fiscal quarter.</li> <li>Major technical direction: Deploy all products on containers.</li> </ul>

#### Table 5-1 Scrum project work items

Work Item Type	Description	Example
Feature	<ul> <li>A feature is a product function that delivers benefits to customers.</li> <li>Features come from epics and are broken down into stories. Features are more specific and intuitive than epics, and are often included in the release notes distributed to customers during product release.</li> <li>It usually takes several weeks, or several sprints to deliver a feature.</li> </ul>	<ul> <li>The description of a feature should specify its values for customers, product form, and delivery mode.</li> <li>Recommended template: As a <user role=""> I want <results> So that <purposes></purposes></results></user></li> <li>User A wants to import and export data, so that they can efficiently organize data in batches.</li> <li>User B wants to receive notifications of due tasks, so that they can handle the tasks in time.</li> <li>User C wants to have a better drag-and-drop experience, so that they can perform operations more quickly.</li> <li>User D wants to create an alias, so that they can be more easily identified and remembered.</li> </ul>

Work Item Type	Description	Example
Story	<ul> <li>"Story" is short for user story. Stories are created from features to describe more detailed product requirements from the perspective of users. Stories are listed by priority in a dynamic backlog where the order is continuously adjusted to suit actual requirements. The higher the stories are located in the backlog, the sooner they will be developed and delivered to customers.</li> <li>A story must comply with the INVEST principle:</li> <li>Independent: Each story should be independent and can be delivered to customers independently.</li> <li>Negotiable: A story does not need to describe specific functions. The details should be negotiated and determined by developers and customers during development.</li> <li>Valuable: A story must deliver values to customers.</li> <li>Estimable: The workload of a story can be estimated.</li> <li>Small: A story should be small enough so that it can be completed in a sprint.</li> <li>Testable: A story should be testable.</li> <li>A story should be delivered in days within a sprint.</li> <li>You can estimate the workload of stories by person-hours, person-days, or story points.</li> <li>Story point estimation is used for agile development. This method estimates the costs for story delivery,</li> </ul>	Examples of stories in compliance with INVEST: Recommended template: As a <user role=""> I want <results> So that <purposes> • As a project manager, I want to filter requirements by handler, so that I can quickly locate a specific requirement. • As a developer, I want to collapse some unnecessary information, so that visual distraction can be reduced. • As a tester, I want to associate test cases with requirements, so that I can track the verification progress of requirements.</purposes></results></user>

Work Item Type	Description	Example
	<ul> <li>including the efforts, complexities, and risks.</li> <li>The Fibonacci series (1, 1, 2, 3, 5, 8) is commonly used to size a story in a relative manner.</li> <li>For example, the workload of a story with 3 story points is three times as large as that of a story with 1 story point.</li> <li>Story points are measured by the Fibonacci series by default.</li> </ul>	
Task	In a sprint planning meeting, stories scheduled in a sprint are assigned to members and broken down into one or more tasks with estimated workloads.	<ul> <li>Tasks focus on series of actions that lead to a goal. Examples are as follows:</li> <li>Developer A needs to prepare a production-like environment today.</li> <li>Developer B needs to complete the permission settings for the project team this week.</li> <li>Developer C needs to review the code.</li> </ul>

Work Item Type	Description	Example
Bug	<ul> <li>Bugs are created to track problems of software functions found during testing and verification. Bugs can be prioritized.</li> <li>Bugs can be created and tracked separately. You can also create bugs when verifying a story. The bugs are child work items of the story, helping you identify the number of issues.</li> <li>The bug description should be as detailed as possible, including but not limited to: <ul> <li>Symptoms: You are advised to describe symptoms from the perspective of users.</li> <li>Error code: The error code can be used to locate and analyze code problems.</li> <li>Environment: Including the development, test, or live network environments.</li> <li>Software stack: Including the operating system and database and their versions.</li> <li>Whether the bug can be reproduced and how this can be done.</li> </ul> </li> </ul>	An example template for bug description: [Symptom] [Error Code (Obtained by Pressing F12)] [Environment] [Fault Reproduction Procedure] [Onsite Fault Locating R&D Engineer] [Preliminary Fault Locating] [Packets Captured Using Google Chrome]

# **5.2 Configuring Common Settings**

### 5.2.1 Configuring Common Work Item Fields

Customize common fields that can be used by any type of work items in your project.

#### Prerequisites

A Scrum project is available, and you have permission to **customize work items** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- Step 3 In the navigation pane, choose Common Fields.

Click **Add Field**, and set the field information, including the name (for example, **CommonField1**), type, and description.

- The added field is displayed in the field list, including the name, type, option, description, and usage.
- Click **Clone Field** to copy existing common fields of other projects to the current project.
- Common fields can be modified or deleted.
- **Step 4** Add an existing common field (for example, **CommonField1**) to the work item template.

The following uses the story work item template as an example:

- 1. In the navigation pane of the project settings page, choose **Stories** > **Fields and Templates**.
- 2. Click **Edit Template** in the upper right corner to enter the editing state of the story work item template.

Click **Add Existing Field**, select **CommonField1** from the **Field Name** dropdown list, click **Add**, and save the template.

#### Figure 5-2 Adding an existing field to the work item template

Description		Fi	elds 💿	+	Add Existing Field	+ Create F
Nor • Siam •	11 · B I ⊻ <del>S</del> A· &·   :		Field Name	Default Value	Whether to I	Mandator
s a <user role=""></user>	Add Existing Field	$\times$	Status	New		
vant <results></results>	Field Name		Assigned To	oneself		
ant stoothas	Select	)	Module			
that <purposes></purposes>	۵		Sprint			
	No data available. Description		Planned Start Date			
			Planned Delivery D			
			Order	1		
			Priority	Middle		
			Severity	Minor		
	Add and Continue Add Cancel		Notify			
			Parentid			

3. Check this **CommonField01** field when creating a story on the **Work > Work Items** page.

#### **NOTE**

- Customized common fields can be configured and used for all types of work items of the current project.
- The story work item template is used as an example. You can add common fields to other work item templates in the same way, and only need to do this once for each of them.
- A maximum of 25 common fields can be customized.

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

#### Figure 5-3 Creating a Scrum project

	Create Project
Scrum Popular	Icon S  * Project Template
An incremential, iterative software development method. Sprint planning, daily Scrum, sprint review, and sprint retrospectives are key to efficient project management.	Scrum (System)
	hahahaha hahahaha n750,7 *
	0/1024

### 5.2.2 Configuring Common Work Item Statuses

Customize common statuses that can be used by any type of work items in your project.

#### Prerequisites

A Scrum project is available, and you have permission to **customize work items** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Common Statuses**.

Click **Add Status**, and set the status information, including the name (for example, **CommonStatus1**), category, and description.

- The added status is displayed in the status list, including the name, description, category, and usage.
- Common statuses can be deleted.

**Step 4** Add an existing common status (for example, **CommonStatus1**) for a work item.

The following uses a story status as an example:

 In the navigation pane, choose Stories > Statuses and Transitions.
 On the Statuses tab page, click Add Existing Status. In the Status dropdown list, select CommonStatus1 and click OK.

#### Figure 5-4 Adding an existing status

Statu	ses and Tran	sitions			
Statuse	s Transitions A	Automation			
		drag to rearrange a sta	atus.		
	Name	Status Category ③	Description	Operation	
	New	To do			
	ceshi001	To do		â	
	Developing	Doing		Add Existing Status	×
	Resolved	Doing		* Status	
	Testing	Doing		ceshi01	
	Rejected	Done			QQ
	Closed	Done		ceshi01	
+ A	Add Existing Status	+ Create Status			

 Check this CommonStatus1 field when clicking the status of a story on the Work > Req > Work Items page.

#### **NOTE**

- Customized common statuses can be configured and used for all types of work items of the current project.
- The New and Closed statuses cannot be deleted.
- A maximum of 50 common statuses can be customized.
- **Step 5** (Optional) To prevent a closed work item from being edited, toggle on **Set work** item to read-only for finished work items.

Figure 5-5 Common Statuses page

Common Statuses	
Set work item to read-only for finished work items.	

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

Figure 5-6 Creating a Scrum project

	Create Project	
Form Porter P	Icon Scrum (System) Scrum (System) AA	
	hahahaha	
	hahahahaha 	0/1024
		W 1024

### **5.2.3 Configuring Work Item Fields and Templates**

Customize different types of work item templates, and specify whether to display each field on work item creation pages, whether these fields are mandatory, and what they are default to. These templates are used by default when you create work items.

#### Prerequisites

A Scrum project is available, and you have permission to **customize work items** for the project.

#### **Configuring Epic Fields and Templates**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Epics > Fields and Templates**. The epic template page is displayed.
- Step 4 Click Edit Template.
  - Set **Description** based on project requirements.
  - Set **Default Value** for system or custom fields.

- Set Whether to hide for preset or custom fields.
- Set Mandatory for preset or custom fields.
- Click Add Existing Field or Create Field to add a field.
- **Step 5** Click **ii** on the left of each field to adjust their sequence.
- Step 6 Click Save.

----End

#### **Configuring Feature Fields and Templates**

```
Step 1 Access the CodeArts Req homepage.
```

- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Features > Fields and Templates**. The feature template page is displayed.
- Step 4 Click Edit Template.
  - Set **Description** based on project requirements.
  - Set **Default Value** for system or custom fields.
  - Set Whether to hide for preset or custom fields.
  - Set **Mandatory** for preset or custom fields.
  - Click Add Existing Field or Create Field to add a field.
- **Step 5** Click **ii** on the left of each field to adjust their sequence.
- Step 6 Click Save.

----End

#### **Configuring Story Fields and Templates**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Stories > Fields and Templates**. The story template page is displayed.
- Step 4 Click Edit Template.
  - Set **Description** based on project requirements.
  - Set **Default Value** for system or custom fields.
  - Set Whether to hide for preset or custom fields.
  - Set **Mandatory** for preset or custom fields.
  - Click Add Existing Field or Create Field to add a field.
- **Step 5** Click **II** on the left of each field to adjust their sequence.
- Step 6 Click Save.

#### **Configuring Task Fields and Templates**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Tasks > Fields and Templates**. The task template page is displayed.
- Step 4 Click Edit Template.
  - Set **Description** based on project requirements.
  - Set **Default Value** for system or custom fields.
  - Set Whether to hide for preset or custom fields.
  - Set Mandatory for preset or custom fields.
  - Click Add Existing Field or Create Field to add a field.
- **Step 5** Click **ii** on the left of each field to adjust their sequence.
- Step 6 Click Save.

----End

#### **Configuring Bug Fields and Templates**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Bugs > Fields and Templates**. The bug template page is displayed.
- Step 4 Click Edit Template.
  - Set **Description** based on project requirements.
  - Set **Default Value** for system or custom fields.
  - Set Whether to hide for preset or custom fields.
  - Set Mandatory for preset or custom fields.
  - Click Add Existing Field or Create Field to add a field.
- **Step 5** Click **ii** on the left of each field to adjust their sequence.

Step 6 Click Save.

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

#### Figure 5-7 Creating a Scrum project

	Create Project	
Scrum		
Scrum Popular An Incremental, Iterative software development method. Sprint jacking, daily Scrum, sprint review, and sprint refrospectives are key to efficient project management.	* Project Template Scrum (System) Scrum (System)	
	hahahaha hahahaha	
	natartartarta 0720.2	0/1024

#### 5.2.4 Managing Work Item Statuses and Transitions

Customize the statuses of different work item types, adjust their sequence, configure transitions, and set automated transition rules.

#### Prerequisites

A Scrum project is available, and you have permission to **customize work items** for the project.

#### **Managing Epic Statuses and Transitions**

- Configuring work item statuses
  - a. Access the CodeArts Req homepage.
  - b. Go to a Scrum project and choose **Settings > Work**.
  - c. In the navigation pane, choose **Epics > Statuses and Transitions**. The **Statuses** tab page is displayed by default.

#### Figure 5-8 Managing epic statuses

-	-	·9 - F ·		
Statu	ses and Transit	ions		
Statuses	s Transitions Auto	omation		
• You c	can add, delete, or dr	ag to rearrange a statu	IS.	
• The a	above operations app	bly only to the story.		
	Name	Status Category ③	Description	Operation
	New	To do		
н	ceshi01	To do		Ū
н	Developing	Doing		Û
в	Resolved	Doing		Û
н	Testing	Doing		۵.
н	Rejected	Done		Ū
	Closed	Done		
+ A	dd Existing Status +	- Create Status		

- d. Add, create, or delete statuses.
  - Click Add Existing Status, select a status from the drop-down list, and click OK.
  - Click Create Status. In the dialog box that is displayed, set the status name (for example, CustomStatus1), category (for example, Doing), and description, and click Add.

The new status is displayed in the current work item status list and on the **Transitions** tab page.

You can delete the added status as required.

- e. Press and hold i on the left of a status name to rearrange the work item status by drag-and-drop.
- Configuring work item transitions

Configure the transitions between work item statuses. Then click the status of a work item on the work item list page to check the transition.

- a. Access the CodeArts Req homepage.
- b. Go to a Scrum project and choose **Settings > Work**.
- c. In the navigation pane, choose **Epics > Statuses and Transitions**. Then click the **Transitions** tab.

#### Figure 5-9 Epic status transitions

Statuses aı	nd Transitions							
	sitions Automation							
These settings of	nly apply to the <b>epic</b> . You can co	nfigure the allowed transi	tions between statuses h	ere.				
		New	ceshi001	Developing	Resolved	Testing	Rejected	Closed
New	Transition To							
ceshi001	Transition To							
Developing	Transition To							
Resolved	Transition To							
Testing	Transition To							
Rejected	Transition To							
Closed	Transition To							

- d. Select the allowed statuses and click **Save**.
- e. (Optional) After the configuration is complete, check the status of **ceshi01** in the work item list.

#### Figure 5-10 Epic status transition

Epic 🔻	Backlog	Bug	F Create Work Item	Pre-filter •	Q	Tracke	r: Epic	Enter keyword or	add filter.	
	ID	🕂 Title						Closed On	Status 🤊	
	67246	Epic	qrwerwrwerwe						New	
	67246	Epic	fheadhfuawedh			1	Chan	e Ctatus		
	67246	Epic	rghhtddfgdhd				Change * State	je Status		
	67246	Epic	fuogfgweufgueiuf					ceshi001	•	
	672461	Epic	gpoihgidhfghidf				*	New		
	672461	Epic	hfdgdgf					ceshi001		
	672461	Epic	gfdgdfgd					Developing		
								Resolved		
								Testing		
								Add S		
								ОК	Cancel	

• Configuring automated status transition rules

Configure the handler options, default handler option, default comments, and whether comments are mandatory for work items transitioning to a specific status. In addition, specify the target status work items will transition to when a specific code message is committed. This configuration can improve your project efficiency.

- a. Specify a handler for work items in a specified status.
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Epics > Statuses and Transitions.
     Click the Automation tab. By default, Change Handler is selected.

#### Figure 5-11 Specifying handlers for epic statuses

Statuses and Transitions			
Automation Automation			
hese settings only apply to the epic. Set automated transition rules that match your			
Change Handler Work item handlers are automatically assigned based on the item status.	Change Handler Work item handlers are	automatically assigned based on the item status.	
Change Status	Status	Detail	Transition Operation
Work item statuses are automatically changed based on code commit details.	New		۲
	ceshi001	Handler: Developer	۲
	Developing		۲
	Resolved		۲
	Testing		0
	Rejected		۲
	Closed		۲

Click I in the row of a target status (for example, ceshi01). Then configure the handler options, default handler option, default comments, and whether comments are mandatory for work items that transition to the cehsi01 status.

#### Figure 5-12 Configuring a status transition rule

ttribute Name	Default Value Type	Range		Default Value/Default Field	Mandatory
ssigned To	Field value *	Select	w	Developer *	
Comment				need test	
mment					

Click **OK**. The rule applies when work items transition to this status.

Figure 5-13 Epic status transition

* Status ceshi01			•
* Assigned To			•
Comment need test			
Set Perso	n-Hours.		
	ОК	Cancel	

- b. Specify a transition status for a code commit message
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Epics > Statuses and Transitions. Click the Automation tab, and select Change Status.

**Figure 5-14** Specifying transition statuses for different code commit messages

Statuses and Transitions								
Statuses Transitions Automation	r worki	ing babits						
These settings only apply to the epic. Set automated transition rules that match your working habits. Change Status								
Change Handler Work item handlers are automatically assigned based on the item status.		Work item statuses are automatically changed based on code commit details.						
Change Status		Code Commit Detail	Target Status	Apply				
Work item statuses are automatically changed based on code commit details.		fix	Resolved					
		close	Closed					
		resolve	Resolved					

Toggle on or off the switch in the **Apply** column. Once the switch is toggled on, work items whose associated code commits contain the corresponding keyword in the commit message will automatically transition to the target status.

#### **Managing Feature Statuses and Transitions**

• Configuring work item statuses

- a. Access the CodeArts Req homepage.
- b. Go to a Scrum project and choose **Settings > Work**.
- c. In the navigation pane, choose **Features > Statuses and Transitions**. The **Statuses** tab page is displayed by default.

Figure 5-15 Managing feature statuses

Statu	Statuses and Transitions								
Statuses Transitions Automation									
• You o	<ul> <li>You can add, delete, or drag to rearrange a status.</li> </ul>								
• The a	The above operations apply only to the epic.								
	Name	Status Category	Description	Operation					
	New	To do							
в	ceshi001	To do		Ū					
н	Developing	Doing		Û					
н	Resolved	Doing		Ū					
н	Testing	Doing		Ū					
в	Rejected	Done		Ū					
	Closed	Done							
+ 4	Add Existing Status	- Create Status							

- d. Add, create, or delete statuses.
  - Click Add Existing Status, select a status from the drop-down list, and click OK.
  - Click Create Status. In the dialog box that is displayed, set the status name (for example, CustomStatus1), category (for example, Doing), and description, and click Add.

The new status is displayed in the current work item status list and on the **Transitions** tab page.

You can delete the added status as required.

- e. Press and hold ii on the left of a status name to rearrange the work item status by drag-and-drop.
- Configuring work item transitions

Configure the transitions between work item statuses. Then click the status of a work item on the work item list page to check the transition.

- a. Access the CodeArts Req homepage.
- b. Go to a Scrum project and choose **Settings > Work**.
- c. In the navigation pane, choose **Features > Statuses and Transitions**. Then click the **Transitions** tab.

#### Figure 5-16 Feature status transitions

Statuses a	tatuses and Transitions									
tatuses Transitions Automation										
hese settings only apply to the <b>story</b> . You can configure the allowed transitions between statuses here.										
		New	ceshi01	Developing	Resolved	Testing	Rejected	Closed		
New	Transition To									
ceshi01	Transition To									
Developing	Transition To									
Resolved	Transition To									
Testing	Transition To									
Rejected	Transition To									
Closed	Transition To									

- d. Select the allowed statuses and click **Save**.
- e. (Optional) After the configuration is complete, check the status of **ceshi01** in the work item list.

Figure 5-17 Feature status transition

Backlog Bug	+ Create Work Item	Pre-filter •	Q Tracker:	Story   Task   Bug 💿 Ent	er keyword or add filter.
ID	+ Title			Closed On	Status 🕐
67247	Bug Bug3473244				New
67247	Bug Bug232432			Change Status	
67247	Story Story437823784			-	
67247	Task Task74832			* Status ceshi01	*
67245	Story ceshi01			* New	
				ceshi01	
				Developing	
				Resolved	1
				Testing	
				Add S	Cancel
				ОК	Cancel

• Configuring automated status transition rules

Configure the handler options, default handler option, default comments, and whether comments are mandatory for work items transitioning to a specific status. In addition, specify the target status work items will transition to when a specific code message is committed. This configuration can improve your project efficiency.

- a. Specify a handler for work items in a specified status.
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Features > Statuses and Transitions. Click the Automation tab. By default, Change Handler is selected.

#### Figure 5-18 Specifying handlers for feature statuses Statuses and Transitions Statuses Transitions Automation These settings only apply to the **story**. Set automated transition rules that match your working habits Change Handler Change Handler Work item h Work item handlers are autom Status Detail Change Status New Handler: Developer 0 ceshi01 0 Developing Resolved Testing Rejected ۲ ۲

Click <sup>((i)</sup>) in the row of a target status (for example, **ceshi01**). Then configure the handler options, default handler option, default comments, and whether comments are mandatory for work items that transition to the **cehsi01** status.

Figure 5-19 Configuring a status transition rule

configure Transition Set the default handler and if comments are required for work items whose status is changed to ceshi01.								
Attribute Name	Default Value Type	Range	Default Value/Default Field	Mandatory				
Assigned To	Field value *	Select *	Select •					
Comment			255 characters max.					

Click **OK**. The rule applies when work items transition to this status.

Figure 5-20 Feature status transition

* Status			
* Assigned To			
			•
Comment need test			
Set Persor	n-Hours.		
	ок	Cancel	

- b. Specify a transition status for a code commit message
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Features > Statuses and Transitions. Click the Automation tab, and select Change Status.

**Figure 5-21** Specifying transition statuses for different code commit messages

Statuses and Transitions									
Statuses Transitions Automation									
These settings only apply to the story. Set automated transition rules that match your working habits.									
Change Handler Work item handlers are automatically assigned based on the item status.		Change Status Work item statuses are automatically changed based on code commit details.							
Change Status		Code Commit Detail	Target Status	Apply					
Work item statuses are automatically changed based on code commit details.		fix	Resolved						
		close	Closed						
		resolve	Resolved						

Toggle on or off the switch in the **Apply** column. Once the switch is toggled on, work items whose associated code commits contain the corresponding keyword in the commit message will automatically transition to the target status.

#### **Managing Story Statuses and Transitions**

- Configuring work item statuses
  - a. Access the CodeArts Req homepage.
  - b. Go to a Scrum project and choose **Settings > Work**.
  - c. In the navigation pane, choose **Stories > Statuses and Transitions**. The **Statuses** tab page is displayed by default.

#### Figure 5-22 Managing story statuses

#### Statuses and Transitions

Statuse	s Transitions Auto	omation							
	You can add, delete, or drag to rearrange a status. The above operations apply only to the epic.								
	Name	Status Category (2)	Description		Operation				
	New	To do							
8	ceshi001	To do			Ū				
н	Developing	Doing			Ū				
н	Resolved	Doing			Û				
н	Testing	Doing			Ē				
н	Rejected	Done			Ū				
	Closed	Done							
+ A	Add Existing Status	- Create Status							

- d. Add, create, or delete statuses.
  - Click Add Existing Status, select a status from the drop-down list, and click OK.
  - Click Create Status. In the dialog box that is displayed, set the status name (for example, CustomStatus1), category (for example, Doing), and description, and click Add.

The new status is displayed in the current work item status list and on the **Transitions** tab page.

You can delete the added status as required.

- e. Press and hold i on the left of a status name to rearrange the work item status by drag-and-drop.
- Configuring work item transitions

Configure the transitions between work item statuses. Then click the status of a work item on the work item list page to check the transition.

- a. Access the CodeArts Req homepage.
- b. Go to a Scrum project and choose **Settings > Work**.
- c. In the navigation pane, choose **Stories > Statuses and Transitions**. Then click the **Transitions** tab.

#### Figure 5-23 Story status transitions

Statuses and Transitions tatuses <u>transitions</u> Automation hese settings only soply to the <b>story</b> . You can configure the allowed transitions between statuses here.									
		New	ceshi01	Developing	Resolved	Testing	Rejected	Closed	
New	Transition To								
ceshi01	Transition To								
Developing	Transition To								
Resolved	Transition To								
Testing	Transition To								
Rejected	Transition To								
Closed	Transition To								

- d. Select the allowed statuses and click **Save**.
- e. (Optional) After the configuration is complete, check the status of **ceshi01** in the work item list.

Figure 5-24 Story status transition

Backlog Bug	+ Create Work Item	Pre-filter 🕶	Q	Tracker: Stor	y   Task   Bug 🛛 En	ter keyword or add filter.
ID	+ Title				Closed On	Status 🕐
67247	Bug Bug3473244					New
67247	Bug Bug232432			Cha		
67247	Story Story437823784				nge Status	
67247	Task Task74832			Î	Status ceshi01	<b>^</b>
67245	Story ceshi01			*	New	
					ceshi01	
					Developing	
					Resolved	1
					Testing	
					Add S OK	Status Cancel

• Configuring automated status transition rules

Configure the handler options, default handler option, default comments, and whether comments are mandatory for work items transitioning to a specific status. In addition, specify the target status work items will transition to when a specific code message is committed. This configuration can improve your project efficiency.

- a. Specify a handler for work items in a specified status.
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Stories > Statuses and Transitions. Click the Automation tab. By default, Change Handler is selected.

#### Figure 5-25 Specifying handlers for story statuses Statuses and Transitions Statuses Transitions Automation These settings only apply to the **story**. Set automated transition rules that match your working habits Change Handler Change Handler Work item ha Work item handlers are autom Status Detail Change Status New Handler: Developer 0 ceshi01 0 Developing Resolved Testing Rejected ۲ ۲

Click <sup>((i)</sup> in the row of a target status (for example, **ceshi01**). Then configure the handler options, default handler option, default comments, and whether comments are mandatory for work items that transition to the **cehsi01** status.

Figure 5-26 Configuring a status transition rule

Set the default handler and if comments are required for work items whose status is changed to ceshi001.								
Attribute Name	Default Value Type	Range	Default Value/Default Field	Mandatory				
Assigned To	Field value *	Select 👻	-Select					
Comment			255 characters max.					

Click **OK**. The rule applies when work items transition to this status.

Figure 5-27 Story status transition

Change Status		
* Status		
ceshi01		•
* Assigned To		
		•
Comment		
need test		
Set Person-Ho	ours.	
0	K Cancel	

b. Specify a transition status for a code commit message

- Access the CodeArts Req homepage.
- Go to a Scrum project and choose **Settings > Work**.
- In the navigation pane, choose Stories > Statuses and Transitions. Click the Automation tab, and select Change Status.

**Figure 5-28** Specifying transition statuses for different code commit messages

Statuses and Transitions Statuses Transitions Automation									
These settings only apply to the <b>story</b> . Set automated transition rules that match your working habits.									
Change Handler Work item handlers are automatically assigned based on the item status.		Change Status Work item statuses are automatically changed based on code commit details.							
Change Status		Code Commit Detail	Target Status	Apply					
Work item statuses are automatically changed based on code commit details.		fix	Resolved						
		close	Closed						
		resolve	Resolved						

Toggle on or off the switch in the **Apply** column. Once the switch is toggled on, work items whose associated code commits contain the corresponding keyword in the commit message will automatically transition to the target status.

#### **Managing Task Statuses and Transitions**

- Configuring work item statuses
  - a. Access the CodeArts Req homepage.
  - b. Go to a Scrum project and choose **Settings > Work**.
  - c. In the navigation pane, choose **Tasks > Statuses and Transitions**. The **Statuses** tab page is displayed by default.

#### Figure 5-29 Managing task statuses

Statu	Statuses and Transitions								
Statuse	s Transitions Aut	omation							
	<ul><li>You can add, delete, or drag to rearrange a status.</li><li>The above operations apply only to the epic.</li></ul>								
	Name	Status Category (2)	Description	Operation					
	New	To do							
	ceshi001	To do		Ū					
8	Developing	Doing		Ū					
8	Resolved	Doing		Ŵ					
	Testing	Doing		Ū					
8	Rejected	Done		Ū					
	Closed	Done							
+ A	dd Existing Status	<ul> <li>Create Status</li> </ul>							

- d. Add, create, or delete statuses.
  - Click Add Existing Status, select a status from the drop-down list, and click OK.
  - Click Create Status. In the dialog box that is displayed, set the status name (for example, CustomStatus1), category (for example, Doing), and description, and click Add.

The new status is displayed in the current work item status list and on the **Transitions** tab page.

You can delete the added status as required.

- e. Press and hold ii on the left of a status name to rearrange the work item status by drag-and-drop.
- Configuring work item transitions

Configure the transitions between work item statuses. Then click the status of a work item on the work item list page to check the transition.

- a. Access the CodeArts Req homepage.
- b. Go to a Scrum project and choose **Settings > Work**.
- c. In the navigation pane, choose **Tasks > Statuses and Transitions**. Then click the **Transitions** tab.

#### Figure 5-30 Task status transitions

Statuses and Transitions Statuses Transitions									
	hese settings only apply to the task. You can configure the allowed transitions between statuses here.								
		New	Developing	Resolved	Testing	Rejected	Closed		
New	Transition To								
Developing	Transition To								
Resolved	Transition To								
Testing	Transition To								
Rejected	Transition To								
Closed	Transition To								

- d. Select the allowed statuses and click Save.
- e. (Optional) After the configuration is complete, check the status of **ceshi01** in the work item list.

Figure 5-31 Task status transition

Backlog Bu	g + Create Work Item	Pre-filter •	Q	Tracker: Stor	y   Task   Bug 🛛 💿 Ent	er keyword or add filter.
ID	+ Title				Closed On	Status ?
67247	Bug Bug3473244					New
67247	Bug Bug232432			Cha	nga Status	
67247	Story Story437823784				nge Status	
67247	Task Task74832				ceshi01	
67245	Story ceshi01			*	New	
					ceshi01	
					Developing	
					Resolved	1
					Testing	
					Add S OK	Status Cancel

• Configuring automated status transition rules

Configure the handler options, default handler option, default comments, and whether comments are mandatory for work items transitioning to a specific status. In addition, specify the target status work items will transition to when a specific code message is committed. This configuration can improve your project efficiency.

- a. Specify a handler for work items in a specified status.
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Tasks > Statuses and Transitions. Click the Automation tab. By default, Change Handler is selected.

#### Figure 5-32 Specifying handlers for task statuses

Statuses and Transitions			
Statuses Transitions Automation			
These settings only apply to the ${\ensuremath{ story}}$ . Set automated transition rules that match your w	orking habits.		
Change Handler	Change Handler	are automatically assigned based on the Item status.	
Work item handlers are automatically assigned based on the item status.	work tiern handlers a	are automatically assigned based on the tiern status.	
Change Status	Status	Detail	Transition Operation
Work item statuses are automatically changed based on code commit details.	New	Handler: Developer	0
	ceshi01		۲
	Developing		۲
	Resolved		۲
	Testing		۲
	Rejected		۲
	Closed		۲

Click I in the row of a target status (for example, ceshi01). Then configure the handler options, default handler option, default comments, and whether comments are mandatory for work items that transition to the cehsi01 status.

Figure 5-33 Configuring a status transition rule

C	Configure Transition									
Se	Set the default handler and if comments are required for work items whose status is changed to ceshi01.									
	Attribute Name	Default Value Type	Range		Default Value/Default Field	Mandatory				
	Assigned To	Field value +	Select	v	Select					
	Comment				255 characters max.					
			_							
			ОК	Cancel						

Click **OK**. The rule applies when work items transition to this status.

Figure 5-34 Task status transition

Change Status
* Status ceshi01
* Assigned To
Comment need test
Set Person-Hours.
OK Cancel

- b. Specify a transition status for a code commit message
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Tasks > Statuses and Transitions. Click the Automation tab, and select Change Status.

**Figure 5-35** Specifying transition statuses for different code commit messages

Statuses and Transitions Statuses Transitions Automation								
These settings only apply to the <b>story</b> . Set automated transition rules that match your working habits.								
Change Handler Work item handlers are automatically assigned based on the item status.		Change Status Work item statuses are au	tomatically changed based	on code commit details.				
Change Status		Code Commit Detail	Target Status	Apply				
Work item statuses are automatically changed based on code commit details.		fix	Resolved					
		close	Closed					
		resolve	Resolved					

Toggle on or off the switch in the **Apply** column. Once the switch is toggled on, work items whose associated code commits contain the corresponding keyword in the commit message will automatically transition to the target status.

#### **Managing Bug Statuses and Transitions**

- Configuring work item statuses
  - a. Access the CodeArts Req homepage.
  - b. Go to a Scrum project and choose **Settings > Work**.
  - c. In the navigation pane, choose **Bugs > Statuses and Transitions**. The **Statuses** tab page is displayed by default.

#### Figure 5-36 Managing bug statuses

Statu	Statuses and Transitions							
Statuse	s Transitions Auto	omation						
	<ul><li>You can add, delete, or drag to rearrange a status.</li><li>The above operations apply only to the epic.</li></ul>							
	Name	Status Category ③	Description	Operation				
	New	To do						
в	ceshi001	To do		Ū				
н	Developing	Doing		Û				
	Resolved	Doing		Ū				
	Testing	Doing		Ū				
8	Rejected	Done		Ū				
	Closed	Done						
+ A	Add Existing Status +	- Create Status						

- d. Add, create, or delete statuses.
  - Click Add Existing Status, select a status from the drop-down list, and click OK.
  - Click Create Status. In the dialog box that is displayed, set the status name (for example, CustomStatus1), category (for example, Doing), and description, and click Add.

The new status is displayed in the current work item status list and on the **Transitions** tab page.

You can delete the added status as required.

- e. Press and hold **ii** on the left of a status name to rearrange the work item status by drag-and-drop.
- Configuring work item transitions

Configure the transitions between work item statuses. Then click the status of a work item on the work item list page to check the transition.

- a. Access the CodeArts Req homepage.
- b. Go to a Scrum project and choose **Settings > Work**.
- c. In the navigation pane, choose **Bugs > Statuses and Transitions**. Then click the **Transitions** tab.

#### Figure 5-37 Bug status transitions

Statuses and Transitions									
Statuses Transitions Automation									
hese settings only apply to the <b>story</b> . You can configure the allowed transitions between statuses here.									
		New	ceshi01	Developing	Resolved	Testing	Rejected	Closed	
New	Transition To								
ceshi01	Transition To								
Developing	Transition To								
Resolved	Transition To								
Testing	Transition To								
Rejected	Transition To								
Closed	Transition To								

- d. Select the allowed statuses and click **Save**.
- e. (Optional) After the configuration is complete, check the status of **ceshi01** in the work item list.

#### + Create Work Item Pre-filter • Q Tracker: Story | Task | Bug 💿 Enter keyword or add filter Backlog Bug ID 🕂 Title Closed On Status (?) 67247. Bug Bug3473244 New 67247. Bug Bug232432 **Change Status** Story Story 437823784 67247 Status Task Task74832 67247 ceshi01 . 67245. Story ceshi01 New ceshi01 Developing Resolved Testing Add Status Cancel

Figure 5-38 Bug status transition

Configuring automated status transition rules

Configure the handler options, default handler option, default comments, and whether comments are mandatory for work items transitioning to a specific status. In addition, specify the target status work items will transition to when a specific code message is committed. This configuration can improve your project efficiency.

- a. Specify a handler for work items in a specified status.
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Bugs > Statuses and Transitions. Click the Automation tab. By default, Change Handler is selected.

# Figure 5-39 Specifying handlers for bug statuses Statuses and Transitions Statuses Transitions Automation Transitions Set automated transition rules that match your working habits.

Statuses Transitions Automation			
These settings only apply to the <b>story</b> . Set automated transition rules that match	your working habits.		
Change Handler Work item handlers are automatically assigned based on the item status.	Change Handler Work item handlers are	automatically assigned based on the item status.	
Change Status	Status	Detail	Transition Operation
Work item statuses are automatically changed based on code commit details.	New	Handler: Developer	۲
	ceshi01		۲
	Developing		۲
	Resolved		۲
	Testing		۲
	Rejected		۲
	Closed		۲

Click I in the row of a target status (for example, ceshi01). Then configure the handler options, default handler option, default comments, and whether comments are mandatory for work items that transition to the cehsi01 status.

Figure 5-40 Configuring a status transition rule

Set the default handler and if comments are required for work items whose status is changed to ceshi01.									
Attribute Name	Default Value Type	Range	Default Value/Default Field	Mandatory					
Assigned To	Field value *	-Select- *	Select- 🔹						
Comment			255 characters max.						

Click **OK**. The rule applies when work items transition to this status.

Figure 5-41 Bug status transition

Status			
ceshi01			*
Assigned To			
			-
O - mart			
Comment need test			
Inced test			
Set Perso	n-Hours.		

- b. Specify a transition status for a code commit message
  - Access the CodeArts Req homepage.
  - Go to a Scrum project and choose **Settings > Work**.
  - In the navigation pane, choose Bugs > Statuses and Transitions. Click the Automation tab, and select Change Status.

**Figure 5-42** Specifying transition statuses for different code commit messages

Statuses and Transitions Statuses Transitions Automation								
These settings only apply to the <b>story</b> . Set automated transition rules that match your working habits.								
Change Handler Work item handlers are automatically assigned based on the item status.		Change Status Work item statuses are au	tomatically changed based	on code commit details.				
Change Status		Code Commit Detail	Target Status	Apply				
Work item statuses are automatically changed based on code commit details.		fix	Resolved					
		close	Closed					
		resolve	Resolved					

Toggle on or off the switch in the **Apply** column. Once the switch is toggled on, work items whose associated code commits contain the corresponding keyword in the commit message will automatically transition to the target status.

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

Figure 5-43 Creating a Scrum project

	Create Project	
Scrum Color Scrum Color Scrum Color Scrum Color Sprint planning, dahy Scrum, sprint review and sprint relorance leve are key to efficient project anagement.	Icon Scrum (System) Scrum (System) AAA	
	hahahaha hahahaha n??n.?	0/1024

## 5.2.5 Configuring Work Item Status Rollup Rules

Configure automation rules for your project to specify how a parent work item transitions to a specific status based on its child work item status. Once an automation rule is enabled, it can be triggered by all user operations that meet the conditions in the project.

#### Prerequisites

A Scrum project is available, and you have permission to **set automation rules** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Automation**. Then click **Create** to create an automation rule.

#### Figure 5-44 Automation

Automation					
Rules Logs Q Enter a keyword.					
Status Rollup When child items reach a certain status, the pare	it item will be rolled up.				+ Create
Rule	Modified By	Modified	Enable	Operation	

#### D NOTE

You can configure a rule to close the parent after a feature, story, task, or bug is completed. The configuration is the same for all these work item types. For details, see the configuration process for stories.

Step 4 In the Select Rule Template dialog box, select Close parent workitem after Story completes and click Yes.

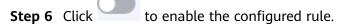
Close parent workitem	after Story completes	×
► Trigger	When a story work item is transitioned from any status to specific status	
Condition	If all child work items of the parent item are in specific status	
Action	Update the status of the parent work item to specific status	
	OK Cancel	

Figure 5-45 Rule configuration dialog box 01

**Step 5** Configure the trigger, condition, and action by referring to the following figure, and click **OK**.

Figure 5-46 Rule configuration dialog box 02

Close parent workitem a	after Story completes	×
Trigger	When a <b>Story</b> work item is transitioned from any status to <u>Closed</u>	
Condition	If all child work items of the parent item are in Closed	
Action	Update the status of the parent work item to Rejected	
	OK Cancel	



**Step 7** Go to the **Work > Work Items** page, select an unclosed feature and its child work items, and change the status of all child work items to **Closed**.

**NOTE** 

- If all child work items of the parent item meet the rule condition and the target status of the parent item supports transition, the rule is applied.
- If the parent item has any child work items that do not meet the rule condition, when the rule is triggered, a record indicating no operation performed is generated and the parent item status is not transitioned.
- If there is no parent item, when the rule is triggered, a record indicating that no operation performed is generated and the parent item status is not transitioned.
- If the parent item transition status configured in the rule does not support transition, when the rule is triggered, a record indicating an execution error is generated and the parent item status is not transitioned.
- **Step 8** Go to the work item list. The feature status is automatically updated to **Rejected**, and an automation rule operation record is added to the **Operation History** page on the work item details page.
- **Step 9** Go to **Step 3** and click (enabled) on the right of **Close parent workitem after Story completes** to disable the configured rule.
- **Step 10** Go to **Step 7** and then access the work item list again.
  - The status of features is not automatically updated.
  - No operation records related to the automation rule appear on the operation history tab of the work item details page.

----End

## 5.2.6 Adding Work Item Modules

- You can add, modify, and delete work item modules in a project.
- You can add submodules to a module.
- When creating or editing a work item, you can specify the module to which the work item belongs.

#### Prerequisites

A Scrum project is available, and you have permission to **set modules** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- Step 3 In the navigation pane, choose Modules.
- **Step 4** Click **Add Module** to add a work item module by referring to the following table. A maximum of 1,024 modules can be added.

Parameter	Description	
Name	Module name. Enter a maximum of 30 characters.	
Descriptio n	Module description. Enter a maximum of 255 characters.	
Owner	Module owner. Select from all members of the current project.	

 Table 5-2 Adding a module

- **Step 5** Click **Clone Module** to replace the module settings of the target project with those of the current project.
- **Step 6** Edit or delete a module, or add a submodule.

Table 5-3	Module	operations
Tuble 5 5	module	operations

Operatio n	Description
Edit	Click 🖉 to modify a module.
Add submodul e	Click <sup>+</sup> to add a submodule. A maximum of three levels are supported.
Delete	Click i to delete a module. <b>NOTE</b> Modules that are currently in use by work items cannot be deleted.

**Step 7** On the page for creating or editing a work item, select a module in the **Module** field.

If there is no module, click 💿 to add one.

----End

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

Figure 5-47 Creating a Scrum project

	Create Project	
<image/>	Icon  Froject Template Scrum (System) Scrum (System) AAA hahahaha hahahaha n320.2	01024

## 5.2.7 Adding Work Item Domains

- You can add, edit, and delete work item domains in a project.
- When creating or editing a work item, you can specify the domain to which the work item belongs.

The default domains include performance, function, reliability, network security, maintainability, other DFX, and usability. You can add more domains as required.

#### Prerequisites

A Scrum project is available, and you have permission to **set domains** for the project.

#### Procedure

Step 1 Access the CodeArts Req homepage.

**Step 2** Go to a Scrum project and choose **Settings > Work**.

**Step 3** In the navigation pane, choose **Domains**.

Domains	Add Domain Clone Domain
Name	Operation
Performance	2 8
Function	2. 1
Reliability	2. 🗊
Network Security	2 8
Maintainability	2 8
Other DFX	2 8
Usability	2 8
newcreated	<i>2</i> 🖻

Figure 5-48 Domains page

**Step 4** Click **Add Domain** to add a work item domain by referring to the following table. A maximum of 25 domains can be added.

 Table 5-4 Adding a domain

Paramete r	Description
Name	Domain name. Enter a maximum of 30 characters.

- **Step 5** Click **Clone Domain** to replace the domain settings of the target project with those of the current project.
- **Step 6** Edit or delete a domain if needed.

Table	5-5	Domain	operations
-------	-----	--------	------------

Operation	Description
Edit	Click 🖉 to modify a domain. NOTE Default domains cannot be edited.
Delete	<ul> <li>Click i to delete a domain.</li> <li>NOTE <ul> <li>Domains that are currently in use by work items cannot be deleted.</li> <li>Default domains cannot be deleted.</li> </ul> </li> </ul>

**Step 7** On the page for creating or editing a work item, select an added domain in the **Domain** field.

-			
Module:	Select		
Sprint:	[	Q	
Planned St	Function		
Planned De	Reliability		
Order:	Network Security		
* Priority:	Maintainability		
* Severity:	Other DFX		
Notify:	Usability		
ParentId:	newcreated		
Domain:		•	ø
* Expected:	0.00   0.00		
Show More			

Figure 5-49 Work item details page

----End

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

Figure 5-50 Creating a Scrum project

Image: Constraint of the start is a start in a		Create Project
An incremental, Berative software development method. Spirit planning, daiy Scrum, spirit review, and spirit elsopacitives are key to efficient project management. Scrum (System) AAA AAA habababa habababa	Scrum 2 →	
hahahahaha 	An incremental, iterative software development method. Sprint planning, daily Scrum, sprint review, and sprint retrospectives are key to efficient project	Scrum (System)  Scrum (System) .
		hahahahaha noonoo

## 5.2.8 Adding Work Types

- You can add, edit, and delete work types in a project.
- On the **Person-Hour Details** tab of the work item details page, you can set the person-hours required for a specific work type.

The default work types are as follows: 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. You can add more work types as required.

#### Prerequisites

A Scrum project is available, and you have permission to **set work types** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- Step 3 In the navigation pane, choose Work Types.

Work Types		
Q Enter a keyword.		Add
Mandatory Set person-hours to read-only for finished work items.		
Name	Enable	Operation
Bugfixed		2
Uldesign		2
meeting		2 B
		2
		2 B
		2
		2 B
		2 1
		2 B
		2 1

Figure 5-51 Work Types page

**Step 4** Click **Add** to add a work type by referring to the following table. A maximum of 500 work types can be added.

Table 5-6 Adding a work type

Parameter	Description
Name	Work type name. Enter a maximum of 30 characters.

**Step 5** Edit or delete a work type if needed.

Table	5-7	Work	type	operations
-------	-----	------	------	------------

Operation	Description
Edit	Click 🖉 to modify a work type.
Delete	Click i to delete a work type. <b>NOTE</b> Work types that are currently in use by work items cannot be deleted.

**Step 6** Configure the following work type settings as required.

Table 5-8 Configuring work type settings

Operation	Description
Mandatory	Click O next to <b>Mandatory</b> to make work type required for person-hour settings. By default, the work type is not required.

Operation	Description
Set person-	Click next to <b>Set person-hours to read-only for</b>
hours to read-	<b>finished work items.</b> to make person-hour settings read-
only for finished	only for work items in a <b>Done</b> state. By default, person-hour
work items.	settings are also available for such work items.

**Step 7** On the page for editing a work item, set the person-hours required for a specific work type.

----End

**NOTE** 

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

Figure 5-52 Creating a Scrum project

	Create Project	
Scrum	Icon	
Scrum Popular An incremental, iterative software development method. Sprint planming, daily Scrum, sprint review, and sprint retrospectives are key to efficient project management:	Project Template     Scrum (System)     Scrum (System)     AAA	
	hahahaha hahahaha 0000.0 7	0/102

## **5.2.9 Configuring Notification Rules**

- Configure notification rules for your project, so that project members can receive notifications when any work items are changed.
- Project notifications can be sent via direct messages or emails.

## Prerequisites

A Scrum project is available, and you have permission to **set notifications** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Notifications**.
- **Step 4** Select or deselect member check boxes in the row of each work item change type. The selected members will be informed of any such work item changes.

Select work item change types that will trigger notifications. Notifications can be sent to members when work items are created, modified, deleted, or commented on. Members can also be notified when they are added or removed from projects, or their roles are changed.

The notification methods of work item changes include internal message and email.

Notifications 💿				
Private Message Notification Upon Changes	Assigned To	Creator	CC Recipients	
Work item created				
Work item modified				
Work item deleted				
Comment made on a work item				
Notify members when they are added to or removed from projects 🛛 Solify members when their roles a	are changed			
Email Notification Upon Changes	Assigned To	Creator	CC Recipients	
Work item created				
Work item modified				
Work item deleted				
Comment made on a work item				
Notify members when they are added to or removed from projects	are changed 📃 Notify users whe	they are mentioned by using the at sign (@) in	the work item comments	
Daily Reminder Recipient Daily email reminders on work items are sent out at 08.00.				
Notification Upon Changes	Assigned To	Creator	CC Recipients	
days 7 - before expiry (story or bug)				
Overdue				
When a critical bug is still open				

#### Figure 5-53 Configuring notifications

**Step 5** When such work item change is made, the specified project members can check

notifications by clicking in the upper right corner.

#### **NOTE**

A project member will also be notified if they have enabled **Email Notifications**. The administrator can set email addresses for members using **IAM**.

----End

#### **NOTE**

- After the configuration is complete, click **Save as Template** in the upper right corner of the page. In the **Save as Template** dialog box, enter a template name and description, and click **OK**.
- This template can be used to create Scrum projects.

Figure 5-54 Creating a Scrum project

	Create Project
scrum 2→	Icon
Scrum Popular on incremental, lerative software development netion. Sprint planning, daily Scrum, sprint review, nd sprint refrospectives are key to efficient project nanagement.	Project Template     Scrum (System)     Scrum (System)     AAA
	hahahaha hahahahaha hototo 2
	0/1024

# 5.3 Creating and Managing Work Items

## 5.3.1 Creating Work Items

After a project is created, you need to create a work item. In a Scrum project, work items are organized in the descending hierarchy: **Epic** > **Feature** > **Story** > **Task** or **Bug**.

#### Prerequisites

There is a Scrum project, in which you have permission to **create and duplicate** work items.

#### Creating a Work Item in a Scrum Project

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to the project homepage and choose **Work > Work Items**.
- Step 3 Click Create Work Item and select a work item type. For example, Story.

Figure 5-55 Creating a Story

Enter a title.	Type:	Story
Add a tag.	* Assigned To:	$= \frac{1}{2} \left[ \frac{1}{2}$
♠ ⊠ Nor…·B I ⊻ S A· &· 旨 ☴ ⊠ 昌 홈 릐 : │ ☴ ⊘ 【 :	Module:	Select
As a <user role=""></user>	Sprint:	Select
I want <results></results>	Planned St	Select a date.
	Planned De	Select a date.
So that <purposes></purposes>	Order:	1
	* Priority:	Middle
	* Severity:	Minor
	Notify:	Select
	Parentid:	Select
	Domain:	Select
	* Expected:	0.00   0.00
	Show More	
43/50,000 characters		
+ Select or Drag & Drop File.		

**Step 4** Set fields for the work item.

For details, see **Configuring Work Item Fields and Templates**. **Table 5-9** describes some default basic fields.

Table 5-9 Creating a work item

Parameter	Description	
Title	Work item name. The value can contain a maximum of 512 characters, including letters, digits, periods (.), and underscores (_).	
Tag	Tag of a work item, for example, <b>document update</b> . <b>NOTE</b> Tags can be used only in a project that the work item belongs to.	
Description	Enter a description based on the template.	
Status	<ul> <li>Status of a work item. Status options can be customized. The default statuses are as follows:</li> <li>New</li> <li>Developing</li> <li>Resolved</li> <li>Testing</li> <li>Rejected</li> <li>Closed</li> <li>When you create a work item, its status is New by default and cannot be changed.</li> </ul>	
Assigned To	Handler of a work item. The value range is all members of the project. If a handler has a nickname, the nickname is displayed by default.	

Parameter	Description	
Module	Module that a work item belongs to. <b>NOTE</b> Only project administrators can configure modules. For details, see Adding Work Item Modules.	
Sprint	Sprint of a work item. Set this parameter to an existing sprint. <b>NOTE</b> You can choose whether to use the start and end dates of the selected sprint for this work item.	
Planned Start Date	Planned start time of a work item. Select a date from the time control.	
Planned Delivery Date	Planned end time of a work item. Select a date from the time control.	
Order	Order of a work item. Value range: 1–100	
Priority	<ul><li>Priority of a work item. The options are as follows:</li><li>Low</li><li>Middle</li><li>High</li></ul>	
Severity	<ul> <li>Severity of a work item. The options are as follows:</li> <li>Critical</li> <li>Major</li> <li>Minor</li> <li>Trivial</li> </ul>	
Notify	People who will receive messages about this work item.	
Parentld	<ul> <li>Parent work item to which a work item belongs. Only one parent work item can be selected.</li> <li>NOTE <ul> <li>The parent work item of a bug or task is a story.</li> <li>The parent work item of a story is a feature.</li> <li>The parent work item of a feature is an epic.</li> <li>No parent work item can be set for an epic.</li> </ul> </li> </ul>	
Domain	Domain that a work item belongs to. <b>NOTE</b> Only project administrators can configure domains. For details, see Adding Work Item Domains.	
Release Version	Version of a release.	

Parameter	Description	
Developer	Person responsible for developing the work item. Each work item should be assigned to a fixed developer.	
	The handler of a work item changes as the work item develops. These two fields can be used together.	
Expected	Estimated person-hours or person-days required to complete a work item.	
Actual	Actual person-hours or person-days required to complete a work item.	
Find Release Version	Product version where a bug is found. <b>NOTE</b> This parameter is available only for work items of the bug type.	
Done Ratio	Progress of the work item. The value ranges from <b>0%</b> to <b>100%</b> . <b>NOTE</b> <b>Done Ratio</b> of a parent work item is updated automatically based on the completion rate of its child work items.	
Story Point	Estimated workload of the story.	
Attachment       Upload required files for the work item.         +       Select or Drag & Drop File.         Click       to associate files         Documentation of the project cloud, or upload local fine         NOTE		
	The maximum size of attachments for a single work item is 50 MB.	

**Step 5** After setting the fields, click **Save**.

The created work item is displayed in the work item list.

----End

work item

details

## **Related Operations**

You can perform the following operations on a new work item.

Operatio Description n		Description	
	Check	In the work item list, click the title or ID of a work item to check its	

Table 5-10 Basic operations on work items

details.

Edit work item title	In the work item list, click in the row that contains the target work item to edit its title.
-------------------------	---

Operatio n	Description	
Fast create child work item	In the work item list, click and enter a child work item title to quickly create a child work item. <b>NOTE</b> You can create child work items under epics, features, and stories, but cannot create child work items under tasks or bugs.	
Favorite work item	In the work item list, click $\stackrel{free}{1}$ in the <b>Operation</b> column of the target work item. After the work item is favorited, the icon changes to $\stackrel{r}{\uparrow}$ . You can click the icon again to unfavorite it.	
Copy work item	<ul> <li>Click Clone under in on the right of the target work item to copy the work item to a Scrum or Kanban project.</li> <li>NOTE</li> <li>When copied from a Scrum project to a Kanban project, epics, features, and stories are changed to requirements, while tasks and bugs remain unchanged.</li> <li>You can copy basic work item information, custom fields, and attachments within a project. Only basic work item information can be copied across projects.</li> </ul>	
Archive work item	Click <b>Archive</b> under in the right of the target work item to archive it. Only work items in the <b>Closed</b> state can be archived.	
Edit work item	<ul> <li>In the work item list, click the field value in the row of the target work item to edit the corresponding field.</li> <li>On the work item details page, click the parameter value of the work item to be edited and save the changes.</li> </ul>	
Delete work item	In the work item list, click in the <b>Operation</b> column of the target work item, and select <b>Delete</b> to delete the work item and its subtasks. Click <b>Delete</b> under in the upper right corner to delete a work item and its subtasks. <b>NOTE</b> If you delete work items of a Scrum project, they are permanently deleted and cannot be restored.	
Batch operation	<ul> <li>Select multiple work items and perform the following operations:</li> <li>Batch cloning</li> <li>Batch editing</li> <li>Batch archiving</li> <li>Batch deletion</li> <li>Batch export</li> </ul>	

# 5.3.2 Creating Work Items Using Mind Maps

In a Scrum project, you can use a mind map to cohesively plan Scrum requirements. This approach allows for a more intuitive display of the hierarchical structure of work items. Additionally, work items created within the mind map will automatically synchronize with the work item list.

You can create multiple mind maps for a Scrum project.

#### Prerequisites

There is a Scrum project, in which you have permission to **create** plans.

### **Creating a Mind Map**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to the project homepage and choose **Work > Plans**.
- **Step 3** Switch to the **Mind Maps** page. Click **Create** > **Mind Maps** and set related parameters in the displayed dialog box.

 Table 5-11 Creating a mind map

Parame ter	Description
Name	Work item name. It can contain up to 30 characters, including letters, digits, periods (.), and underscores (_).

**Step 4** Click **OK**. The mind map is created successfully and is now displayed.

 Table 5-12 describes the operations on the mind map page.

Operation	Description	
Edit mind map name	Click the mind map name to edit it. Press <b>Enter</b> or click in the blank area on the page to save the changes.	
Add epic	Add all epic work items that are not in the current mind map of the project.	
•	<ul> <li>Description of mind map shortcut keys.</li> <li>Insert: quickly creates a subnode.</li> <li>Enter: quickly creates a sibling node.</li> <li>Delete: quickly deletes a node.</li> <li>←, →, ↑, and ↓: controls the selected node.</li> <li>Double-click: edits the node.</li> </ul>	

**Table 5-12** Operations on the mind map page

Operation	Description	
	Export all work items in a mind map to an Excel or PNG file.	
⊕/⊟	Expand or collapse all the child work items of a work item.	
Check work item details	Click the title of a work item to view or modify its details.	
Ū	Delete a work item and all its child work items.	
8	Remove a work item and all its child work items. Only epic work items can be removed.	
C.	Insert a sibling node. Create a work item of the same type as the current one. Click the work item name to go to the details page and edit other information. <b>NOTE</b> By default, the newly added work items are <b>Assigned To</b> the <b>Creator</b> . You can reassign them on the work item details page.	
Ę	Insert a child node. Enter a name to create a child work item. To add more information, click its name and edit the information on the details page. <b>NOTE</b> By default, the newly added work items are <b>Assigned To</b> the <b>Creator</b> . You can reassign them on the work item details page.	

**Step 5** Return to the plan list to view the created plan. The items in the list are described as follows.

Parameter	Description	
Plan Title	Plan name. Move your cursor to the <b>Plan Title</b> column and click to sort plans by title.	
Creator	Plan creator. Move your cursor to the <b>Creator</b> column and click to sort plans by creator. Click to select a target creator to filter plans.	
Created	Time when a plan is created. Move your cursor to the <b>Created</b> column and click () to sort plans by creation time.	
Last Modifier	Name of the user who last modified the plan.	
Last Modified	Time when the plan is last modified. Move the cursor to the <b>Last Modified</b> column and click $\bigcirc$ to sort plans by last modification time.	

Table 5-13 Plan list

Parameter	Description	
Operation	Click in the plan name. Press <b>Enter</b> or click in the blank area of the page to save the changes. Click in the blank <b>NOTE</b> If you delete plans in a Scrum project, they are permanently deleted and cannot be restored.	
Batch operation	Select the check boxes on the left of plans and click to delete the selected plans in batches.	
	If you delete plans in a Scrum project, they are permanently deleted and cannot be restored.	

Step 6 Click 🛚 🖀 🔳

in the upper right corner to switch to the card mode.

Table 5-14 Operations	s in the card mode
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Operation	Description
Change plan title	Hover your cursor over the plan title and click 🖍 to edit the name. Press <b>Enter</b> or click in the blank area of the page to save the changes.
Delete plan	Click *** in the upper right corner of a plan card and select <b>Delete</b> . <b>NOTE</b> If you delete plans in a Scrum project, they are permanently deleted and cannot be restored.
Sort plans	Move your cursor over in the upper right corner and choose <b>Plan Title</b> or <b>Last Modified</b> .

- The **Plans** tab page displays all plans of a project, including mind map plans and Gantt chart plans.
- You can switch between different plan views by selecting **All**, **Gantt Charts**, or **Mind Maps** in the upper left corner.
- The default filters include **All** or **Created by me**. You can select a filter to quickly display the desired plans.
- You can enter a plan name in the search box to search for it.

----End

#### Creating a Work Item in a Mind Map

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to the project homepage and choose **Work > Plans**.
- **Step 3** Click a mind map name. The mind map details page is displayed. **Table 5-12** describes the operations on the details page.
- **Step 4** Add one or more epic work items, set the names (for example, **Epic1**), and press **Enter**.

Add epic work items in any of the following ways:

- Click in for the first addition.
- Click **Adding to Existing Epic** to add existing epics in the project to the mind map.
- Select an epic work item (for example, **Epic1**) and press **Enter**.
- Hover the cursor over **Requirements** and click
- **Step 5** Add one or more feature work items to an epic work item, set the names (for example, **Feature1**), and press **Enter**.

Add feature work items in any of the following ways:

- Select an epic work item (for example, **Epic1**) and press **Insert**.
- Select a feature work item (for example, **Feature1**) and press **Enter**.
- Hover the cursor over a feature work item (for example, **Feature1**) and click
- Hover the cursor over an epic work item (for example **Epic1**) and click  $\Box$ .
- **Step 6** Add one or more story work items to a feature work item, set the names (for example, **Story1**), and press **Enter**.

Add story work items in any of the following ways:

- Select a feature work item (for example, Feature1) and press Insert.
- Select a story work item (for example, **Story1**) and press **Enter**.
- Hover the cursor over a story work item (for example, **Story1**) and click
- Step 7 Add one or more task work items to a story work item, set the names (for example, Task1), and press Enter.
  - Select a story work item (for example, Story1) and press Insert.
  - Select a task work item (for example, **Task1**) and press **Enter**.
  - Hover the cursor over a task work item (for example **Task1**) and click  $\square$ .

----End

## Sorting Work Items in a Mind Map

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to the project homepage and choose **Work > Plans**.

- **Step 3** Click a mind map name. The mind map details page is displayed.
- **Step 4** Sort work items at the same level:

Select a work item in the mind map. Hold down the left click button and drag it up or down to change its order.

For example, drag **Story\_04** to the top of **Story\_02**. When a gray board is displayed above **Story\_02** with a plus sign (+), release the mouse.

Figure 5-56 Sorting work items in drag-and-drop mode



**Step 5** Adjust the hierarchical relationship of work items:

Select a work item in the mind map. Hold down the left click button and drag it leftwards or rightwards to adjust its hierarchical level.

For example, drag **Story\_01** to the back of **Feature\_03**. When a gray boarder appears to the right of **Feature\_03** with a plus sign (+), release the mouse.

Story 🖪	
Story_01 F New S F Story_03 New S =	
story_02	े ह ह
	Story_01 F New C = Story_02 Story_03 New C = Story_02 New C = Story_03 New C = Story_03 New C = Story_03 New C = Story_03 New C = Story_03 New C = Story_03 New C = Story_03 Story_04 Sto

**Figure 5-57** Adjust the hierarchical relationship of work items in drag-and-drop mode

#### **NOTE**

- Adjusting the work item level will automatically change the type of the involved work items.
- Work items with child work items cannot be adjusted to the task level.
- A work item (including its child work items) can be adjusted upwards or downwards in the hierarchy. If the adjusted work item level exceeds the task level, the work item cannot be adjusted.
- The planned work items will be displayed on the Work Item > Req > Work Items page.
- You can filter work items by epic, feature, and story.

----End

# 5.3.3 Creating Work Items Using Gantt Charts

You can create a Gantt chart to display the sequence and duration of a specific project through the activity list and time scale.

Gantt chart visualizes the project schedule and progress for a better evaluation of the remaining tasks and project progress. In the Gantt chart, the **X axis** represents the time (milestones), the **Y axis** is the activities (work items) to be scheduled, and the line shows the project progress.

In a Scrum project, you can create multiple Gantt charts. In each chart, you can create milestones and work items, or add existing work items.

#### Prerequisites

There is a Scrum project, in which you have permission to create plans.

#### **Creating a Gantt Chart**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to the project homepage and choose **Work > Plans**.
- **Step 3** Switch to the **Gantt Charts** page. Click **Create**, select **Gantt Charts**, and set related parameters in the displayed dialog box.

 Table 5-15
 Creating a Gantt chart

Parame ter	Description
Name	Gantt chart name. It can contain up to 30 characters, including letters, digits, periods (.), and underscores (_).

**Step 4** Click **OK**. The Gantt chart is created successfully and is now displayed.

 Table 5-16 describes the operations on the Gantt chart page.

Operation	Description			
Edit Gantt chart name	Click the Gantt chart name to edit it. Press <b>Enter</b> or click in the blank area on the page to save the changes.			
Add existing work items	Click <b>Add to Existing Work Item</b> to add the current plan to an existing work item.			
Create	Click the button to create a work item or milestone.			
E Field	Click the button to set the fields to be displayed in a Gantt chart and their sequence. A maximum of five fields can be displayed.			
≡ Έ	Click the button to switch the view mode of work items in a Gantt chart. List and tree view modes are supported.			
Configure displayed time scale	Click in a Gantt chart to switch the time axis scale. The date can be displayed by day, week, or month.			
Zoom in and out Gantt chart	Click + - to zoom in and out a Gantt chart.			

**Table 5-16** Operations on the Gantt chart page

**Step 5** Return to the plan list to view the created plan. The items in the list are described as follows.

Parameter	Description			
Plan Title	Plan name. Move your cursor to the <b>Plan Title</b> column and click to sort plans by title.			
Creator	Plan creator. Move your cursor to the <b>Creator</b> column and click to sort plans by creator. Click <b>to select a target creator to filter</b> plans.			
Created	Time when a plan is created. Move your cursor to the <b>Created</b> column and click () to sort plans by creation time.			
Last Modifier	Name of the user who last modified the plan.			
Last Modified	Time when the plan is last modified. Move the cursor to the <b>Last Modified</b> column and click (a) to sort plans by last modification time.			
Operation	Click Click Click Click Click In the plan name. Press <b>Enter</b> or click in the blank area of the page to save the changes. Click In the blank <b>NOTE</b> If you delete plans in a Scrum project, they are permanently deleted and cannot be restored.			
Batch operation	Delete         Select the check boxes on the left of plans and click       to         delete the selected plans in batches.         NOTE         If you delete plans in a Scrum project, they are permanently deleted and cannot be restored.			

Table 5-17         Plan list	Table	5-17	Plan	list
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Step 6 Click

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in the upper right corner to switch to the card mode.

#### Table 5-18 Operations in the card mode

Operation	Description
Change plan title	Hover your cursor over the plan title and click <i>to edit the name. Press <b>Enter</b> or click in the blank area of the page to save the changes.</i>

Operation	Description				
Delete plan	Click *** in the upper right corner of a plan card and select <b>Delete</b> .				
	<b>NOTE</b> If you delete plans in a Scrum project, they are permanently deleted and cannot be restored.				
Sort plans	Move your cursor over <b>TE</b> Sort in the upper right corner and				
	choose <b>Plan Title</b> or <b>Last Modified</b> .				

- The **Plans** tab page displays all plans of a project, including mind map plans and Gantt chart plans.
- You can switch between different plan views by selecting **All**, **Gantt Charts**, or **Mind Maps** in the upper left corner.
- The default filters include **All** or **Created by me**. You can select a filter to quickly display the desired plans.
- You can enter a plan name in the search box to search for it.

----End

#### Creating a Work Item in a Gantt Chart

#### Step 1 Access the CodeArts Req homepage.

- **Step 2** Go to the project homepage and choose **Work > Plans**.
- **Step 3** Click a Gantt chart name. The Gantt chart details page is displayed. **Table 5-16** describes the operations on the details page.
- **Step 4** Add work items to a Gantt chart and set the planned time for the work items.

Add work items in any of the following ways:

- Add existing work items
  - a. Click Add to Existing Work Item.

By default, all work items are displayed.

b. Click **All work items** to display the work items to be added, for example, **My work items**.

Figure 5-58 Add existing work items

c. Select the target work items and click **OK**.

Now the added work items are displayed in the Gantt chart.

• Creating a work item

Click the create button, select a work item type, configure basic information, and click **OK**. To create multiple work items, repeat this operation.

• Quickly creating a work item

Click the fast create button, select a work item type, configure basic information, and click **OK**. To create multiple work items, repeat this operation.

**NOTE** 

Work items created in the Gantt chart are displayed on the **Work > Work Items** page. The following table describes the basic operations on work items in a Gantt chart.

Operatio n	Description			
Check work item details	Click the ID or title of the target work item to go to its details page.			
Edit work item title	Click on the right of the target work item, edit the title, and press <b>Enter</b> or click in the blank area of the page to save the changes.			
Fast create child work item	Click C on the right of the target work item to create a child work item under it. Enter a work item name and click <b>OK</b> . <b>NOTE</b> You can create child work items under epics, features, and stories, but cannot create child work items under tasks or bugs.			
Copy work item	<ul> <li>Click Clone under in the right of the target work item to copy it to a Scrum or Kanban project.</li> <li>NOTE <ul> <li>When copied from a Scrum project to a Kanban project, epics, features, and stories are changed to requirements, while tasks and bugs remain unchanged.</li> <li>Only basic information, custom fields, and attachments of work items can be copied within a project. Only basic information of work items can be copied across projects.</li> </ul> </li> </ul>			
Remove work item	Click <b>Remove</b> under in the right of the target work item to remove it and its child work items from the Gantt chart.			

Table 5-19 Basic operations on work items

Operatio n	Description				
Delete work item	Click <b>Delete</b> under i on the right of the target work item to delete it and its child work items. <b>NOTE</b> If you delete work items of a Scrum project, they are permanently deleted and cannot be restored.				
Adjust planned time of work item	In the time axis area on the right of a Gantt chart, move your cursor to the timeline of the target work item and drag the timeline to adjust the start and end time of the work item. You can also drag the timeline itself to make these adjustments.				
Adjust work item completi on rate	In the time axis area on the right of a Gantt chart, move the cursor to the timeline of the target work item and drag on the time axis to adjust the completion rate of the work item. <b>NOTE</b> You can adjust the completion rate only for work items at the bottom- layer leaf nodes. The completion rate of work items with child work items cannot be adjusted.				
Perform batch operation s on work items	<ul> <li>Select a work item and perform the following operations on it as required: <ul> <li>Clone: Clone the selected work item.</li> <li>Edit: Edit the selected work item.</li> <li>Remove: Remove the selected work item from the Gantt chart, but not from the Work Item &gt; Req &gt; Work Items page.</li> <li>Archive: Archive a work item. Only work items in the Closed state can be archived.</li> <li>Delete: Delete the selected work item from both the Gantt chart and the Work Item &gt; Req &gt; Work Items page.</li> </ul> </li> </ul>				

**Step 5** Create a milestone and set the milestone date.

1. Click **Create Work Item** and select **Milestone**. On the **Create Milestone** page, set related parameters.

Table 5-20 Creating a milestone

Paramete r	Description
Milestone Name	Milestone name can contain up to 128 characters, including letters, digits, periods (.), and underscores (_).
Milestone Owner	Milestone owner. You can select any member of the project.

Paramete r	Description
Milestone Date	Milestone completion date.

2. Click **OK**.

Click **Continue to Create** to create more milestones.

The following table lists the basic operations on a milestone in the Gantt chart.

Table 5-21	Basic	operations	on a	milestone
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Operatio n	Description
Edit milestone title	Click on the right of the target milestone to edit the title, and press <b>Enter</b> or click in the blank area of the page to save the changes.
Edit milestone	Click <b>Edit</b> under i on the right of the target milestone to edit its name, owner, and date, and click <b>OK</b> .
Delete milestone	Click <b>Delete</b> under i on the right of the target milestone to delete it.
	<b>NOTE</b> If you delete milestones in a Scrum project, they are permanently deleted and cannot be restored.

----End

### 5.3.4 Managing Work Items

After creating a work item (see **Creating Work Items**), you can perform the operations described in this section on it.

#### Prerequisites

You have created a work item in the Scrum project and have permissions on the work item in the project.

#### On the Work Item List Page

Access a Scrum project, choose **Work > Work Items**, and perform the following operations.

Figure 5-59 Work item list page

ns Work Items	Sprints Statistics Reports	154:20	115420		154:20	
<ul> <li>Backlog Bu</li> </ul>	g + Create Work Item Pre-filter	Q Tracker: Story   Task   Bug 🔘	Enter keyword or add filter.		Sep 21, 2024	
	Title Fortest GM	Closed	On Status	Assigned To	Planned Start Date	Planned Delivery D
67215051	Story_03	-	New	18. 19.	-	-
67214945	Story_02	- 20	New	h) -	-	-
67214941	Story Story_01	2024 11:24	New	4.	-1 2024 11:54.	-

Table 5-22 Managing work items in the work item list

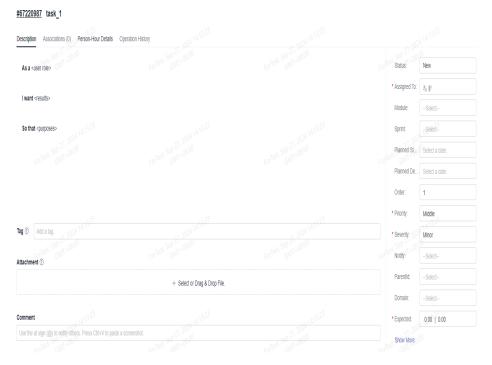
Operation	Procedure			
Filter and query work items	1. Click to view all existing filters and select a filter as required.			
	2. Click the search box to add multiple work item fields as filter criteria.			
	3. View the matched work items.			
	<b>NOTE</b> For work items filtered by <b>Assigned To</b> , if the parent work item and its child work items are not assigned to the same person, only the matched parent work item or child work items can be displayed. Click a work item name to view its parent-child relationship.			
	4. (Optional) Click 🗟 on the right of the search box to save the current filter criteria.			
Configure fields to display	Click Field in the upper right corner and select parameters to be displayed.			
Set table display mode	Click Table Layout in the upper right corner and select <b>Compact, Standard</b> , or <b>Loose</b> as required.			
Check archived work item	1. Click <b>Archived Work Items</b> under in the upper right corner to check archived work items.			
	<ol> <li>Archived work items can be unarchived and deleted in batches.</li> </ol>			

Operation	Procedure
Import work items	<ol> <li>Click Import under in the upper right corner. The Import Work Item dialog box is displayed.</li> <li>Click Download Template.</li> <li>Fill in the template based on the instructions.</li> <li>In the Import Work Item dialog box, upload a file and click Import.</li> </ol>
Export work items	<ol> <li>Click Export under in the upper right corner. The Set Fields to Export dialog box is displayed.</li> <li>Select fields to be exported and click OK to export the work items to the local PC in an Excel file.</li> <li>NOTE         <ul> <li>A maximum of 2,000 work items can be exported.</li> </ul> </li> </ol>
Check work item	<ul> <li>In the work item list, work items can be checked in list mode</li> <li>(i), tree mode (i), or card mode (i).</li> <li>1. List view This view lists all work items that meet the conditions regardless of their parent-child relationships.</li> <li>2. Tree view This view shows the parent-child relationships between work items that meet the conditions. By default, only parent work items are displayed. You can view the hidden child work items by expanding the parent work items. Note: When work items are filtered by type, only the data of the corresponding work item type is displayed in the tree view, and the data of child work items is not displayed in the tree view.</li> <li>3. Card view All work items are represented by cards and grouped by status. You can change the status of a work item by dragand-drop.</li> </ul>

#### On the Work Item Details Page

On the work item details page, you can modify the handler and status, view associated work items, code commit records, work item operation history, and add attachments to the work items.

Access a Scrum project, choose **Work > Work Items**, and click the work item title. On the details page, perform the following operations.



#### Figure 5-60 Work item details page

<b>Table 5-23</b>	Managing	work items	on the	details page
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Operati on	Procedure	Remarks
Edit work item	<ol> <li>Click the field value to be modified and enter a target value in the text box or select it from the drop-down list.</li> <li>Click Save in the upper right corner to save the change.</li> </ol>	You must have permission to <b>edit</b> work items.
Copy work item link	Click Ӣ in the upper right corner to copy the work item ID, title, and link to the clipboard.	All members of the project can perform this operation.

Operati F on	Procedure	Remarks
child work item	<ol> <li>Click the Child Work Item tab.</li> <li>Figure 5-61 Work item details/child work items</li> <li>Items</li> <li>Items</li> <li>Click Fast Create Child to quickly create a child work item. This mode applies to quick scenario creation.</li> <li>To create a child with complete parameters,</li> </ol>	You must have permission to <b>edit</b> work items.

Operati on	Procedure	Remarks
Add detailed workloa ds	<ol> <li>Click the Person-Hour Details tab.</li> <li>Click Add Person-Hour, set person-hours as required, and click OK.</li> <li>View the person-hours of each member.</li> <li>(Optional) Choose Work Item &gt; Req &gt; Sprints and click in the upper right corner to display the list in member mode. Then view the total actual workload in the member column.</li> <li>NOTE         The total actual workload is the sum of all person-hours from different members. By default, this workload belongs to the current handler.     </li> </ol>	You must have permission to <b>edit</b> work items.
View operatio n history	<ol> <li>Go to the work item details page.</li> <li>Click the <b>Operation History</b> tab.</li> </ol>	All members of the project can perform this operation.
Tag work item	<ol> <li>Click the <b>Tag</b> text box to add a tag to the work item. The added tag is displayed in the <b>Tag</b> area.</li> <li>View the existing tags on the work item details page.</li> </ol>	You must have permission to <b>edit</b> work items.
Add attachm ent	<ul> <li>Perform the following operations to add attachments to a work item. You can upload/drag-and-drop a local file or choose a file in CodeArts Wiki.</li> <li>1. Access the page for creating or editing a work item.</li> <li>2. Click + to add attachments to the work item. The maximum size of attachments for a single work item is 50 MB.</li> </ul>	You must have permission to upload files for work items.
Comme nt on work item	In the <b>Comment</b> area, you can comment on work items. <b>NOTE</b> To notify others of the comment, you can @ <i>a user</i> <i>account</i> , and a notification will be sent using private <b>Message</b> . For details, see <b>Configuring Notification</b> <b>Rules</b> .	All members of the project can perform this operation.

# 5.4 Configuring a Sprint Plan

In a Scrum project, sprints can be used to manage and track versions.

#### Prerequisites

There is a Scrum project, in which you have permission to **create** sprints.

#### **Creating a Sprint**

#### Step 1 Access the CodeArts Req homepage.

- **Step 2** Go to the project homepage and choose **Work > Sprints**.
- **Step 3** Click <sup>+</sup> above the sprint list. In the **Create Sprint** dialog box, set related parameters.

 Table 5-24
 Creating a Sprint

Parame ter	Description
Sprint Name	Sprint name, which can contain a maximum of 60 characters, including letters, digits, periods (.), and underscores (_).
Planned Duratio n	Start time and end time of a sprint plan.
Descrip tion	Description of a sprint plan. The value can contain a maximum of 500 characters, including letters, digits, periods (.), and underscores (_).

**Step 4** Click **OK**. The sprint is created successfully, and the sprint page is displayed.

By default, the created sprints are displayed on the left in descending order of the creation time. You can click a sprint card on the left to switch to another sprint.

The sprint page displays the sprint name, planned sprint time, sprint description, sprint statistics, and work items in the sprint.

----End

#### **Follow-up Operations**

After operations in **Creating a Sprint** are complete, you can perform the following operations.

Operati on	Description	Remarks
Edit sprint	Click in the upper right corner of a sprint card and click <b>Edit</b> .	You must have permission to <b>edit</b> sprints.

 Table 5-25
 Managing a sprint

Operati on	Description	Remarks
Change sprint status	<ul> <li>Click in the upper right corner of a sprint card and click Start to change the sprint status from To Do to Doing.</li> <li>NOTE <ul> <li>You can start a sprint only when there are work items in it.</li> </ul> </li> <li>For sprints in the Doing state: <ul> <li>Click in the upper right corner of the sprint card and click Set as To Do. The sprint state is changed from Doing to To Do.</li> <li>Click in the upper right corner of the sprint card and click Close. The sprint state is changed from Doing to Done.</li> </ul> </li> <li>For sprints in the Done state, click in the upper right corner of the sprint state is changed from Doing to Done.</li> </ul>	You must have permission to <b>set statuses</b> for sprints.
Delete sprint	<ul> <li>Click in the upper right corner of the sprint card and click <b>Delete</b>.</li> <li><b>NOTE</b> <ul> <li>If a Scrum project sprint is deleted, it is permanently deleted and cannot be restored.</li> <li>After a sprint is deleted, all work items in the sprint are automatically moved to the category of unplanned work items.</li> </ul> </li> </ul>	You must have permission to <b>delete</b> sprints.
Plan sprint	You can select unplanned work items or work items under other sprints and drag them to the target sprint.	You must have permission to <b>edit</b> sprints.

Operati on	Description	Remarks
View and manage sprint	Click E to switch to the List mode. Click the display mode of sprint work items. Click to switch to the List mode. Click to switch to the Tree mode. Click to switch to the Tree mode. Click to switch to the Card mode. Click to switch to the Member mode. Statistics on the top to view more details, including work item statistics, burndown charts, and project member data. Click Create Work Item to create a Story, Task, or Bug. Click the handler and status in the row that contains the target work item for a quick modification.	All project members can view sprints. To create a work item in a sprint, you must have permission to <b>create and</b> <b>duplicate</b> work items. To modify a work item in the sprint list, you must have permission to <b>edit</b> work items.

# 5.5 Tracking the Project Progress

# 5.5.1 Tracking the Progress with Statistical Charts

You can use statistical charts to track the progress of work items in a project.

There are two types of charts available: custom and preset. The preset templates include the overview, workloads, work item distribution, sprints, and bug types. Select a template as required.

#### Prerequisites

- There is a Scrum project, in which you have permission to **create** charts.
- There is a Scrum project, in which you have permission to **create**, **rename**, **and delete** chart types.

#### **Creating a Custom Chart**

You can use custom charts to analyze the measures from several dimensions, including the **Story point**, **Expected person-hours**, **Actual person-hours**, and **Work item**.

#### Step 1 Access the CodeArts Req homepage.

- **Step 2** Access a Scrum project. Choose **Work > Statistics**. Click **Create Report**. In the displayed dialog box, choose **Custom Chart**.
- **Step 3** On the page for creating a custom chart, configure the following information.

#### Figure 5-63 Creating a custom chart

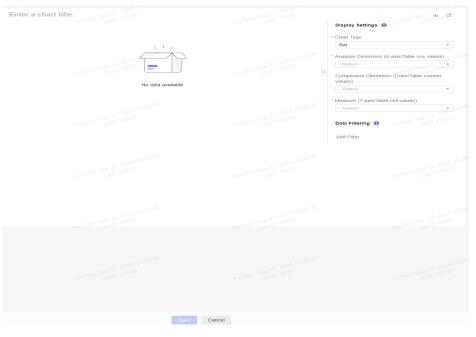


Table 5-26 Creating a custom chart

Paramet er	Description
Title	Chart title. The value can contain 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-).
Chart Type	Chart display type. The options include <b>Bar</b> or <b>Pie</b> .
Analysis Dimensio n	Data analysis dimension of a chart, that is, data dimension represented by the X axis.
Comparis on Dimensio n	Data comparison dimension of a chart, that is, data dimension represented by the color block on the Y axis.
Measure	Data summary item of a chart, that is, data dimension represented by the Y axis. Statistics on the number of story points and work items, and estimated and actual workloads are supported.
Data Filtering	After clicking <b>Add Filter</b> , you can select a system field or customize a field to filter the range of chart statistics.

#### D NOTE

• In brief, statistic charts calculate the **Measure** of each **Analysis Dimension** in each **Comparison Dimension**.

For example, set **Analysis Dimension** to **Handler**, **Comparison Dimension** to **Sprint**, and **Measure** to **Expected person-hour**. The expected person-hours of each handler in each sprint will be calculated.

- In data filtering, you can add different filter criteria to further filter statistic data. For example, if **Sprint** is selected, only work items in the specified sprint are filtered.
- **Step 4** Click **Save**. Saved charts are displayed on the **Statistics** homepage for you to easily view and modify.

#### ----End

#### **Using a Preset Chart Template**

Select a proper preset chart template based on the service scenario.

- You can use the **Work Item Trend**, , and **Work Item Completion** system charts to analyze work items.
- You can use the **Person-Hours of Project Members** system chart to analyze the person-hours of the project members.
- You can use the Work Items by Handler, Work Items by Priority, and Work Items by Historical Status system charts to analyze the work item distribution.
- You can use the **Sprint Burndown Chart** system chart to analyze the sprints.
- You can use the **Bugs by Handler**, **Bugs by Creator**, **Bugs by Priority**, **Bugs by Work Item Status**, and **Bugs by Handler and Work Item Status** system charts to analyze the work item bugs.

The following describes how to use the preset chart template **Work Item Trend** to create a chart.

#### Step 1 Access the CodeArts Req homepage.

- Step 2 Access a Scrum project. Choose Work Item > Req > Statistics. Click Create Report. In the displayed dialog box, choose Work Item Trend.
- **Step 3** Go to the chart editing page and configure the following information.

Enter a chart title.			Display Settings	ForTest, Sep 27, 2024 GMT+08(1)
	ς. Γ. <i>γ</i>		* Type All	•
	Test. Sep 21, 2024		Data Filtering	e Range
	No data avail	lable.	Select a sprint.	* ·
			<ul> <li>▶</li> <li>●</li> </ul>	
		Save Cancel		

Figure 5-64 Editing the work item trend overview

#### Table 5-27 Creating a chart on work item trend overview

Paramet er	Description
Title	Chart title. The value can contain 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-).
Туре	Work item type scope. You can select multiple options from all work item types in the project.
Data Filtering	You can select <b>Sprint</b> or <b>Time Range</b> to filter the data range to be displayed in a chart.

**Step 4** Click **Save**. Saved charts are displayed on the **Statistics** homepage for you to easily view and modify.

----End

#### **Follow-up Operations**

After operations in **Creating a Custom Chart** or **Using a Preset Chart Template** are complete, users who have permission to **Edit**, **Delete**, **Move**, and **Export** charts can perform the following operations.

You can perform the following operations on created charts.

Operation	Description
Switch chart display mode	Click Chart Table in the upper right corner of a chart card to switch the chart display mode.
View chart in full screen	Click in the upper right corner of a chart card to view the chart in full screen.
Save chart	Click in the upper right corner of a chart card and click the save chart icon to save the current chart as a PNG image.
Export chart	Click in the upper right corner of a chart card and click <b>Export Chart</b> to export the current chart data to an Excel file.
Edit chart	Click in the upper right corner of a chart card and click <b>Edit Chart</b> to edit the chart.
Move chart	Click in the upper right corner of a chart card and click <b>Move Chart</b> to move the current chart to another chart category.
Delete chart	Click in the upper right corner of a chart card and click <b>Delete Chart</b> to delete the current chart. <b>NOTE</b> If you delete charts, they are permanently deleted and cannot be restored.

#### Table 5-28 Basic chart operations

You can manage created charts by category. Multiple chart cards are displayed in one view. By default, **Non-Categorized** charts are displayed. You can create chart categories as required. Each chart category can contain a maximum of 20 chart cards.

#### Managing Charts by Chart Category

- **Step 1** Access a Scrum project. Choose **Work > Statistics**, and click
  - + Create Category

in the **Non-Categorized** drop-down list. Enter a name in the **Create Chart Category** dialog box.

#### Step 2 Click OK.

- Chart cards can be placed under chart categories.
- To rename a chart category, click i on the right of the chart category name and choose **Rename**.

- To delete a chart category, click i on the right of the chart category name and choose **Delete**.
- Within a chart category, you can drag the target chart to adjust its display sequence.

**NOTE** 

- After a chart category is deleted, the included charts are automatically moved to **Non-Categorized**.
- If you delete chart categories, they are permanently deleted and cannot be restored.

----End

# 5.5.2 Tracking the Progress with Dashboards

Supports data visualized management during project management, review each sprint development, and summarizes the improvement direction in the next sprint. The project provides multiple dashboard chart cards, covering progress, quality, efficiency, and work item distribution (by member), so that you can learn about the project progress in real time.

To better experience the data analysis effect, you are advised to use the new dashboard.

#### D NOTE

- It is recommended that all project members enable the default dashboard statistics display and pay attention to the project progress.
- The burndown chart data in the dashboard is updated at 00:00 every day, and the burndown chart data in the sprint is updated in real time.
- The dashboard displays the number of stories whose work items are closed.
- The project administrator, project manager, and test manager can perform operations in Adding a Custom Chart Card to a Dashboard. For example, they can view the workload of each person.

#### Prerequisites

There is a Scrum project, in which you have permission to **createedit** dashboards.

#### Using the Default Dashboard to Track the Project Progress

The default dashboard displays some common **chart cards**, including story statistics (by importance), bug statistics (by status), work item completion rate, project bug status distribution, and actual workload distribution of project members.

#### **Creating a Custom Dashboard**

You can create a custom dashboard as required.

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Access a Scrum project, go to the dashboard page, click <sup>\*\*\*</sup> in the upper right corner, and click **Add Dashboard**. Then configure the following information.

	_
Parameter	Description
Dashboard Name	Dashboard title. The value can contain 1 to 128 characters, including letters, digits, underscores (_), and hyphens (-).
Description	Description of the dashboard. The value can contain a maximum of 128 characters, including letters, digits, underscores (_), and hyphens (-).

Table 5-29 Creating a dashboard

#### Step 3 Click OK.

----End

#### Adding a Custom Chart Card to a Dashboard

You can customize chart cards based as required and drag them to the dashboard to customize chart cards to be collected, including customization, overview, workload, work item distribution, sprint, and bug.

- Step 1 Access the CodeArts Req homepage.
- Step 2 Access a Scrum project, go to the dashboard page, and click Design Layout > Add Card in the upper right corner. If the current dashboard has no data, click Add Card.

Figure 5-65 Dash	board			
Hamepage / Hell_all(2) Wark Default Dashboard -			⇔ om e	Stion Q Retresh Design Leyout
Stockes by Project Nember and Import Chart Table 2° O C Units toxes 3	Bugs by Project Nember and Status Chart Table - ' O C	Work Item Completion	2 O 🗂 Bugs by Work Item Status	Chart Table 🗸 Ə 🖾
25 2		Chrompleted Dore	Format Son T. 2007 Dates	
0.5	No data available.	Uncompleted		No data available.

**Step 3** In the **Drag to Add Card** area displayed on the right, you can drag the cards to adjust the dashboard display sequence as required.

# Drag to Add Card Enter a keyword. Q Non-Categorized Non-Categorized Image: Contract of the second seco

Figure 5-66 Drag to add card dialog box

- Step 4 (Optional) If the chart card to be added does not meet your requirements, click Create Work Item in the upper right corner. In the Select Chart Type dialog box, customize a chart card. For details, see Tracking the Progress with Statistical Charts.
- **Step 5** Switch back to the dashboard details page and refresh the current data. Repeat the operations of adding cards and select the created chart card.
- **Step 6** After the card is set, click **Save**. A message is displayed, indicating that the dashboard is saved successfully.

----End

#### **Related Operations**

You can perform the following operations on a new dashboard.

Operati on	Description
View dashboa rd	Click the dashboard name and select the target dashboard from the drop-down list.
Export dashboa rd	Click *** in the upper right corner of the dashboard homepage and click <b>Export Dashboard</b> to export the current dashboard to a PDF file.
Delete dashboa rd	Click *** in the upper right corner of the dashboard homepage and click <b>Delete Dashboard</b> to delete the current dashboard. <b>NOTE</b> The default dashboard cannot be deleted.
Configur e dashboa rd	<ul> <li>Click *** in the upper right corner of the dashboard homepage and click Overview Configuration. The following operations are available:</li> <li>Creating a dashboard: Click Add Dashboard in the upper right corner. For details, see Creating a Custom Dashboard.</li> <li>Editing a dashboard: Click 2 in the Operation column of the desired dashboard.</li> <li>Deleting a dashboard: Click 1 in the row of the desired dashboard.</li> <li>Setting a dashboard as the homepage: Click on the left of a dashboard to set it as the homepage.</li> </ul>

 Table 5-30 Operations on a dashboard

# 5.5.3 Sending a Project Progress Report

You can send project progress reports to the specified recipients.

#### **Creating a Project Progress Report**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a Scrum project and choose **Work > Reports**.
- Step 3 Click <sup>+</sup>. In the Select Report Template window, select a report template type, for example, Empty File.

Select	t Report Template		$\times$
	Empty File	Empty File	
_	System Templates	Empty File Empty File ForTest. Sep 27, 2024 GMT +08.00	
		System Templates	
		Project Progress Template Project Progress Template Project Plan Template Project Plan Template	
		Project Plan Template Project Plan Template	
		Custom Templates	
		Custom Templates	
		NO Custom Templates	
		.0 <sup>.48.43</sup> ОК Cancel 20.48.43	

#### Figure 5-67 Selecting a report template

- Step 4 Click OK.
- **Step 5** Set the report title, **Recipients**, **CC Recipients**, and report content as required, then click **Send**.

You can also preview the template or save it as a template or draft.

Recipients		
Recipients		
C Recipients		
2011		
* Enter a report content. 27, 2024 11:52:50 CMT+08:00		
Send Preview Save as	s Template Save as Draft	

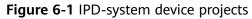
Figure 5-68 Creating a report

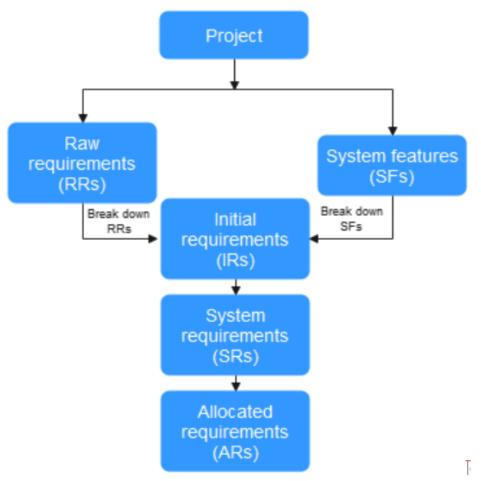
----End

# 6 Managing IPD-System Device Project Requirements

# **6.1 Requirement Management Process**

IPD-system device projects are oriented for large-scale product development scenarios based on structured processes and powerful cross-project collaboration. They help you manage development with efficiency and quality, covering raw requirements (RRs), system features (SFs), R&D requirements, tasks, and bugs. Tasks and bugs are respectively activities generated and problems found during requirement implementation.





**IPD-system device project work types** describes the work item types used by IPD-system device projects.

Work Item Type	Description
Raw requirement (RR)	RRs are raw problems or requirements described from the perspective of customers. Customer requirements are a type of RRs.
Feature tree (FT)	<ul> <li>FTs contain feature sets and SFs.</li> <li>Feature set: aggregates and manages SFs. Multi-level relationships can be established for the feature set, and the feature tree version snapshot and snapshot comparison functions are provided.</li> <li>SF: feature that brings benefits. SFs can have different types of child requirements in this hierarchy: SF &gt; IR &gt; SR &gt; AR.</li> </ul>

Table 6-1 IPD-system device project work types

Work Item Type	Description
System feature (SF)	SFs are major capabilities of offering requirements or services to support problems (PBs).
	<ul> <li>Offering requirements: a group of complete, consistent, and series of formal requirements planned by product managers/ planning representatives.</li> <li>In principle, SFs are a set of key selling points (highlights) of an offering. Each SF is an E2E solution that meets customers' specific business value requirements. Some SFs can be sold separately via license control.</li> </ul>
	• PBs: challenges and opportunities faced by customers (customer strategies and pain points), that is, key problems solved by a product or service for customers. Resolving key problems can bring core value to customers.
R&D	There are three work item types under R&D requirements:
requirement (IR/SR/AR)	• Initial requirement (IR) IRs are re-described accurately, with complete background, in standard format, and from the perspective of customers/ markets.
	• System requirement (SR) SRs are system functional and non-functional requirements that are presented externally, can be tested, and are described from the perspective of R&D.
	<ul> <li>Functional requirements are specific scenario-based requirements on functions provided by the system.</li> </ul>
	<ul> <li>Non-functional requirements are specific to costs, global quality attributes (mainly on DFX), and technical restrictions.</li> </ul>
	• Allocated requirement (AR) ARs are functional and non-functional requirements broken down from SRs and allocated to sub-systems/modules from the perspective of deliverability based on the division of responsibilities of entry-level organizations.
Task	Tasks are activities with a certain goal.
Bug	Bugs are problems found in a project.

# 6.2 Configuring Common Settings

# 6.2.1 Configuring Common Work Item Fields

Customize common fields that can be used by any type of work items in your project.

#### Prerequisites

- An IPD-system device project is available, and you have permission to **configure work item templates** for the project.
- You have the **Tenant Administrator** permission.

#### **Configuring Common Fields in a Project**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Work Items > Common Field**.
- Step 4 Click Create Field. In the dialog box that is displayed, set the required parameters.

Parameter	Description
Field Name	Enter a maximum of 15 characters, including letters, digits, and hyphens (-).
Field Type	Type of the field. The options include: single-choice list, multi-choice list, single-line text, multi-line text, date, date and time, integer, decimal, single- choice user, multi-choice user, and level field.
Description	Remarks about the field. Enter a maximum of 50 characters, including letters, digits, and hyphens (-).

 Table 6-2
 Creating a field

#### Step 5 Click OK.

The new field is displayed at the end of the list. The parameters in this list are described in the following table.

Table	6-3	Field	list
	•••	11010	

Paramete r	Description
Field Name	System or custom field name. Hover over the header and click $igodots$ to sort by field name.
Created/ Added By	The user who creates or adds a field. Hover over the header and click  to sort by creator or adding user.
Created/ Added At	Time when a field is created or added. Hover over the header and click  to sort by creation or addition time.

Paramete r	Description
Field Type	System or custom field type. The options include: single-choice list, multi-choice list, single-line text, multi-line text, date, date and time, integer, decimal, single- choice user, multi-choice user, and level field.
	Hover over the header and click 💿 to sort by field type.
	Hover over the header and click to filter fields.
Option	Displayed only for single- and multi-choice list fields.
Descriptio n	System or custom field description.
Status	Work item types that are currently using a system or custom field.
Operation	You can edit and delete a field.
	To edit a field, click 🖉 in this column. NOTE
	System fields cannot be edited.
	Custom fields of your tenant cannot be edited here
	To delete a field, click 🔟 in this column. NOTE
	System fields cannot be deleted.
	<ul> <li>Deleting a tenant-defined field only removes it from work item templates where it was previously used. It remains in the tenant's field list.</li> <li>Deleted fields cannot be recovered.</li> </ul>

**Step 6** (Optional) Add a common field (for example, **CommonField01**) to a work item template.

The following uses the IR work item template as an example:

- 1. Choose Work > Work Items > Initial Requirement (IR) > Field Templates.
- 2. Click **Add Field**, select **CommonField01** from the **Field Name** drop-down list, and click **Add** to save the template.

#### Figure 6-2 Add Field dialog box

Vork Item Ianagement	Field Te	<u> </u>	ion Templates Naviga						+ Add Fi	eld
Raw Requir		Field Name Added By	Added At	Field Type	Display Durin	Required @	Baselined 🔘	Option	Default Value	(
System Feat		Title System S Sys	t Sep 13, 2	Single-line				-		
nitial Req										
System Req		Add Field		×	•			-		
Allocated R		Field Name    Select		^				Initial,Anal	Initial	
ug		Enter a name.		٩					Creator	
Common Fi	в	Priority Sequence System		Integer					Creator	
common St		Progress System	L	st (single-choice)						
		Module System		Hierarchy						
		Expected Completion System		Date						
	в	Promised System	U	st (single-choice)				High, Medi	Medium	
	в	Recipient System	U	ser (multi-choice)						
		High Value System	Li	st (single-choice)						
		+ Create Field								

Check this CommonField01 field when creating or editing an IR on the Work
 > Req > R&D Requirements page.

#### **NOTE**

- Customized common fields can be configured and used for all types of work items of the current project.
- The IR work item template is used as an example. You can add common fields to other work item templates in the same way, and only need to do this once for each of them.
- A maximum of 100 common fields can be customized in a project.

----End

#### **Configuring Common Fields in Tenant Settings**

You can configure tenant-level common fields for work items across all your IPD projects.

- **Step 1** Log in to the CodeArts homepage, click  $\bigcirc$ , and choose **All Account Settings**.
- **Step 2** Choose **Work > Field**. The existing common fields are displayed.
- **Step 3** Click **Create Field**. In the dialog box that is displayed, enter a field name, select a field type, and click **OK**. The new field is displayed in the list.

----End

You can perform the following operations on a new field:

- Click 🖉 to modify the field name, type, and description.
- Click 🔟. In the dialog box that is displayed, click **Delete** to delete the field.

#### D NOTE

Fields created on the **Work** > **Field** page apply to all IPD projects in your tenant and can be configured for the work items in these projects.

- 1. Go to an IPD project and choose **Settings > Work**.
- 2. Click **Work Items** and select a work item type.
- 3. On the **Field Templates** tab page, click **Add Field**. In the displayed dialog box, select a new field, configure other options, and click **OK**.

# 6.2.2 Configuring Common Work Item Statuses

Customize common statuses that can be used by any type of work items in your project.

#### Prerequisites

- An IPD-system device project is available, and you have permission to **configure work item templates** for the project.
- You have the **Tenant Administrator** permission.

## **Configuring Common Statuses in a Project**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Work Items > Common Status**.
- **Step 4** Click **Create Status** under **Add Status**. In the displayed dialog box, set the required parameters.

#### Table 6-4 Creating a status

Parameter	Description
Name	Enter a maximum of 30 characters, including letters, digits, and hyphens (-).
Category	Category of the status. The options include <b>To Do</b> , <b>Doing</b> , and <b>Done</b> .
Description	Remarks about the status. Enter a maximum of 50 characters, including letters, digits, and hyphens (-).

#### Step 5 Click OK.

The new status is displayed at the end of the list. The parameters in this list are described in the following table.

Paramete r	Description
Name	System or custom status name. Hover over the header and click (a) to sort by status name.
Created By	The user who creates a status. Hover over the header and click to sort by creator.
Created	Time when a status is created. Hover over the header and click to sort by creation time.

Paramete r	Description
Category	System or custom status category.
	The options include <b>To Do</b> , <b>Doing</b> , and <b>Done</b> .
	Hover over the header and click 💿 to sort by status category.
	Hover over the header and click 🔲 to filter statuses.
Status	Work item types that are currently using a system or custom status.
Descriptio n	System or custom status description.
Operation	You can edit and delete a status.
	To edit a status, click $ ot \sim 2$ in this column.
	NOTE
	System statuses cannot be edited.
	Custom statuses of the tenant cannot be edited here.
	To delete a status, click 🔟 in this column.
	NOTE
	System statuses cannot be deleted.
	<ul> <li>Custom statuses that are currently in use by work items cannot be deleted.</li> </ul>
	Deleted statuses cannot be recovered.

**Step 6** (Optional) Add a common status (for example, **CommonStatus01**) to the work item status flow.

The following uses the IR work item status flow as an example:

- Under Work Configuration, choose Work Items > Initial Requirement (IR)
   > Status Flows, and click Edit.
- 2. Click on the left, select **CommonStatus01** on the **All Statuses** panel, and drag it to the status flow canvas. Draw incoming and outgoing transition lines for the status, and click **Update Status Flow**.

#### Figure 6-3 Expanding all statuses

Statuses	0								÷	Can	cel	∂ R	store	10	Delet	e														
Search for a status.																														
io Do																														
submit Initial																														
oing																														
_	-																													
nning Implementir	9																													
Ivering Accepting																														
weinig Accepung																														
nfirming Fixing		÷ 0	Initial			 <b>N</b>	nalyzin						S	evelo				l c	T	sting				•	Comp					
			No configu	ration		N	o configu	ration					N	la config	uration				No	config	uration				No coni	figurati	on .			
veloping R&D			+			 	+							+				÷		+				-	+					
cessing																														
-defined																														
						A	ny status						, P	iny statu	15				A	ny stab	15				Any sta	atus				
w Status																														
		1.0			 																									
one	•				1.1	 	÷ 4																							

3. Check this **CommonStatus01** status in IRs' status flows on the **Work** > **Req** > **R&D** Requirements page.

#### **NOTE**

- Customized common statuses can be configured and used for all types of work items of the current project.
- The IR work item status flow is used as an example. You can add common statuses to other work item templates in the same way, and only need to do this once for each of them.
- The total number of system and common statuses in a project cannot exceed 50.

----End

#### **Configuring Common Statuses in Tenant Settings**

You can configure tenant-level common statuses for work items across all your IPD projects.

- Step 1 Log in to the CodeArts homepage and click
- Step 2 Choose All Account Settings.
- **Step 3** Choose **Work > Status**. The existing common statuses are displayed.
- **Step 4** Click **Create Status**. In the dialog box that is displayed, enter a status name, select a status category, and click **OK**. The new status is displayed in the list.

You can perform the following operations on a new status:

- Click 🖉 to modify the status name, category, and description.
- Click 🔟. In the dialog box that is displayed, click **OK** to delete the status.

#### D NOTE

Statuses created on the **Work** > **Status** page apply to all IPD projects in your tenant and can be configured for the work items in these projects.

- 1. Go to an IPD project and choose **Settings > Work**.
- 2. Click **Work Items** and select a work item type.
- 3. On the **Status Flows** tab, click **Edit**. Click I next to the system status flow currently in use to copy it to a custom status flow. On the custom status flow page, select the new status, click **Edit**, configure fields for the status, and click **Save**.

----End

# **6.2.3 Configuring Work Item Templates**

Customize different types of work item templates, and specify whether to display each field on work item creation pages, whether these fields are mandatory, and what they are default to. These templates are used by default when you create work items.

#### Prerequisites

- An IPD-system device project is available, and you have permission to **configure work item templates** for the project.
- You have the **Tenant Administrator** permission.

#### **Configuring Field and Description Templates for RRs**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work**.
- Step 3 In the navigation pane, choose Work Items > Raw Requirement (RR) > Field Templates.
- **Step 4** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Required** column, specify whether each system or custom field must be set.
  - In the **Default Value** column, set a default value for each system or custom field.
- **Step 5** Click i on the left of each field to adjust their sequence.
- **Step 6** Choose **Work Items > Raw Requirement (RR) > Description Templates**. Then click **Edit**.

Customize the RR description template and click **Save**.

----End

#### **Configuring Field and Description Templates for SFs**

- **Step 1** Go to a project and choose **Settings > Work**.
- Step 2 In the navigation pane, choose Work Items > System Feature (SF) > Field Templates.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- Step 5 Choose Work Items > System Feature (SF) > Description Templates. Then click
  Edit.

Customize the SF description template and click **Save**.

----End

#### **Configuring Field and Description Templates for IRs**

- **Step 1** Go to a project and choose **Settings > Work**.
- **Step 2** In the navigation pane, choose **Work Items > Initial Requirement (IR) > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- **Step 5** Choose **Work Items > Initial Requirement (IR) > Description Templates**. Then click **Edit**.

Customize the IR description template and click **Save**.

----End

### **Configuring Field and Description Templates for SRs**

- **Step 1** Go to a project and choose **Settings > Work**.
- Step 2 In the navigation pane, choose Work Items > System Requirement (SR) > Field Templates.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- Step 5 Choose Work Items > System Requirement (SR) > Description Templates. Then click Edit.

Customize the SR description template and click **Save**.

----End

#### **Configuring Field and Description Templates for ARs**

- **Step 1** Go to a project and choose **Settings > Work**.
- Step 2 In the navigation pane, choose Work Items > Allocated Requirement (AR) > Field Templates.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- **Step 5** Choose **Work Items > Allocated Requirement (AR) > Description Templates**. Then click **Edit**.

Customize the AR description template and click **Save**.

----End

#### **Configuring Field and Description Templates for Tasks**

**Step 1** Go to a project and choose **Settings > Work**.

- **Step 2** In the navigation pane, choose **Work Items > Task > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Required** column, specify whether each system or custom field must be set.
  - In the **Default Value** column, set a default value for each system or custom field.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- **Step 5** Choose **Work Items > Task > Description Templates**. Then click **Edit**.

Customize the task description template and click **Save**.

----End

#### **Configuring Field and Description Templates for Bugs**

- **Step 1** Go to a project and choose **Settings > Work**.
- **Step 2** In the navigation pane, choose **Work Items > Bug > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Required** column, specify whether each system or custom field must be set.
  - In the **Default Value** column, set a default value for each system or custom field.

**Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.

**Step 5** Choose Work Items > Bug > Description Templates. Then click Edit.

Customize the bug description template and click Save.

----End

## **6.2.4 Configuring Work Item Status Flows**

#### Prerequisites

An IPD-system device project is available, and you have permission to **configure status flows** for the project.

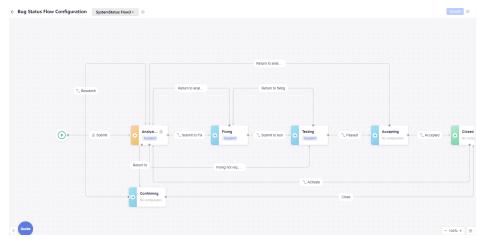
#### Procedure

You can customize the status sequence as required.

**NOTE** 

- This function is currently available for R&D requirements, system features, tasks, and bugs. The following describes how to customize a bug status flow.
- System status flows can only be viewed. You can copy them to customize a new one. Custom status flows can be edited and executed to meet your service requirements.
- If an R&D requirement is switched to a custom status flow, the rollup rule will automatically become invalid. Only when all types of work items of the R&D requirement are executed in the system status flow, the rollup rule will apply.
- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Work Items > Bug > Status Flows**.
- **Step 4** Click **Edit**. The **Bug Status Flow Configuration** canvas page is displayed with the default system status flow.

#### Figure 6-4 Bug status flow



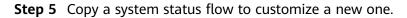
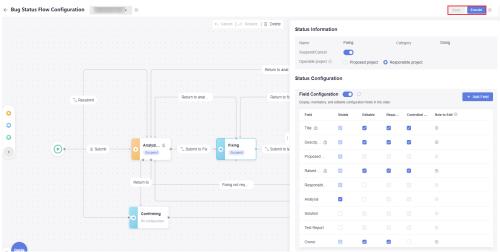


Figure 6-5 Copying to create a status flow

← Bug Status Flow Configuration	SystemStatus Flow3 -
	System Status Flows Custom Status Flows
	SystemStatus Flow3 Active Latest
	System   Published: Dec 12, 2023 00:00:00 GMT+08:00







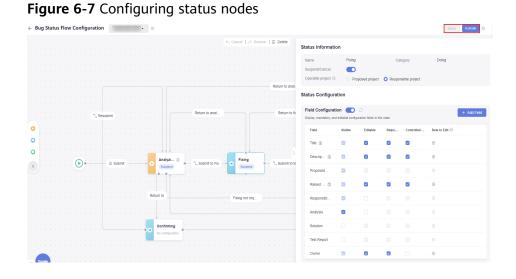
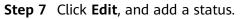


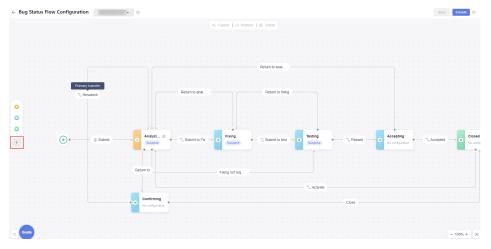
Figure 6-8 Configuring transition lines



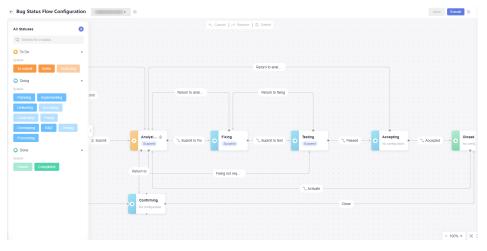


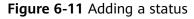
1. Expand the status drawer. Drag any available status to the canvas or click  $\bigcirc$  to add one.

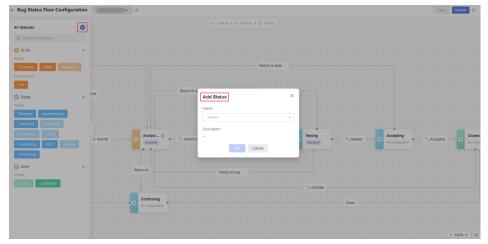
#### Figure 6-9 Expanding the status drawer



#### Figure 6-10 Expanded status drawer







2. Click the **Name** drop-down list, and then click **Create Status**. You can also select an existing tenant-level custom status.

#### Figure 6-12 Creating a status

×
^
Q

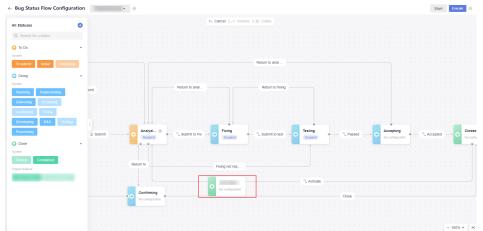
#### 3. Set **Name** and **Category**.

The options include **To Do**, **Doing**, and **Done**.

4. Click OK.

The new status is displayed on the bug status flow canvas.

### Figure 6-13 Adding a status to a bug status flow



**Step 8** Drag the new status to a proper position, draw a transition line with your mouse, and enter a name.



Figure 6-14 Adding a transition line for a new status

**Step 9** Double-click the new transition line.

#### Figure 6-15 Transition line configuration panel

#### Transition Line Information

Transition Line Name © Start Status	Accepted	Set as primary transfer © Target Status	Closed
Pre-transition V	erification In-tra	nsition GUI Config Po	st-transition Action
• •	operation is performed by	an assigned role before status transi	tion. (Project administrator and project
Temp Role of Wo Item	Select		~
Validate Field If the field value is v transition.		ion, the work item status can be cha	nged through

**Step 10** Set **Transition Line Name** and other information.

**Step 11** After the configuration is complete, click  $\searrow$  to collapse the panel.

ransition Line	Information		
Transition Line Name	Return to analysis	Set as primary transfer	
Start Status	Fixing	Target Status	Analyzing
	ion Permission	5	st-transition Action
Verify Operat	ion Permission operation is performed by an as ed by default.)	5	

Figure 6-16 Collapsing the transition line configuration panel

The new status must have at least one incoming and one outgoing transition lines. To add a transition line, repeat steps **5** to **8**.

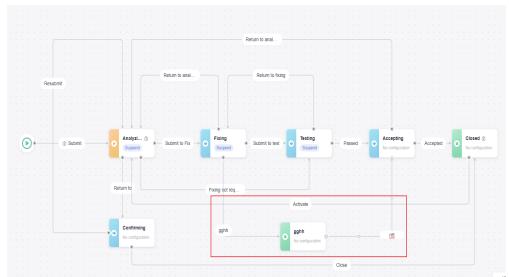


Figure 6-17 Adding incoming and outgoing transition lines

**Step 12** Click **Execute** in the upper right corner, and customize the main navigation bar.

igur	<b>e 6-18</b> Se	etting t	he mair	n navig	jation bar			
Custon	nize Main Navi	gation Bar	Orag and drop i	tems to create a r	main path. 🥎 🗍			×
								_
	Analyzing		Fixing	<u> </u>	Testing	Accepting	Closed	
					OK Cancel			

Step 13 Click OK.

The new bug status flow is displayed on the Status Flows tab page.

Figure 6-19 Bug status flows

Field Templates	Status Flows	Description Templates	Navigation				Edit
Name		Category		Added by	Added	Description	
Analyzing		To Do		S System	Sep 13, 2024 16:39:34 GMT+		
Fixing		Doing		S System	Sep 13, 2024 16:39:34 GMT+		
Testing		Doing		s System	Sep 13, 2024 16:39:34 GMT+		
Accepting		Doing		s System	Sep 13, 2024 16:39:34 GMT+		
Confirming		Doing		S System	Sep 13, 2024 16:39:34 GMT+		
Closed		Done		S System	Sep 13, 2024 16:39:34 GMT+		
		Done		θ	Sep 14, 2024 14:45:57 GMT+	1	

This status flow will be applied to the bug management process.

Bug 1				
Analyzing	Fixing	aabbcc	Accepting	Closed

----End

## 6.2.5 Configuring Work Item Tags

Tags can be created, edited, and deleted for different types of requirements and work items in a project.

#### **Prerequisites**

An IPD-system device project is available, and you have permission to manage tags for the project.

#### Adding a Tag

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to a project and choose **Settings > Work > Tag Management**.

All work item tags are displayed here.

#### Step 3 Click Create Tag.

Figure	6-21	Creating	a tag
--------	------	----------	-------

Tags		
+ Create Tag	er a keyword. Q	
Title		
		×
	Create Tag	
	work item types	
	Tag Name	
		vailable.
	Tag Color	
		•••
	OK Cancel	

- **Step 4** Select a work item type and tag color, and enter a tag name.
- Step 5 Click OK.

The new tag is displayed in the list.

#### Figure 6-22 Tags page

Tags			
+ Create Tag Enter a keyword.	Q	The	e total number of tags is 3.
Title		Category	Operation
• 54t		Raw Requirements	Ø 🖞
• das		Raw Requirements	Ø 🖞
		Raw Requirements	0

#### **NOTE**

- Click  $\swarrow$  to change the tag name and color. The change is synchronized where the tag is referenced.
- Click  $\blacksquare$  to delete a tag. The tag is deleted from where it is referenced.

The tag also displays on the details page of each work item type (such as RR).

----End

## 6.2.6 Creating Work Item Modules

- You can add, modify, and delete work item modules in a project.
- You can add submodules to a module.
- When creating or editing a work item, you can specify the module to which the work item belongs.

#### Prerequisites

An IPD-system device project is available, and you have permission to **set modules** for the project.

#### Creating a Module

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Modules**.
- Step 3 Click Create.

Figure 6-23 Creating a module

Modules			
+ Create			
🕂 Module 💿	Description 🕒	Owner 🕒	Operation
Enter a name.	Enter a description.	v	OK Cancel

Step 4 Set Module, Description, and Owner.

The module name must be unique in the system.

- Step 5 Click OK.
- **Step 6** (Optional) Edit or delete a module, or add a submodule.
  - Click  $\angle$  to edit the module.
  - Click 🕮 to delete the module.
  - Click <sup>+</sup> to add a submodule. Each module can have a maximum of three levels, for example, Module1 > Submodule01 > Submodule001.

#### Figure 6-24 Adding a submodule

Modules + Create			
+ Module 💿	Description	Owner 💿	Operation
new module01			2 + 🗇
child module001			之 + 亩
child module0002			2 1

----End

## 6.2.7 Creating Work Types

Work types include R&D design, backend development, frontend development, and more. You can customize your own work types and specify whether they are mandatory for work items.

#### Prerequisites

An IPD-system device project is available, and you have permission to **set work types** for the project.

#### Creating a Work Type

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Work Types**.
- Step 3 Click Create.

#### Figure 6-25 Creating a work type

Work Types Om Mandatory	
+ Create Q Enter a keyword.	
Work Type Name	Operation
	OK Cancel
R&D design	2 1

**Step 4** Enter a work type name.

The name must be unique in the system.

Step 5 Click OK.

You can select this work type when configuring workloads for work items.

igure o zo	Adding a work	louu			
Details	Attachment 0	PRelated Items 1	요 Review	() Workload	() History
Add Wor	kload 🍥				×
* Period					
Start date	-	End date		Weekends incl	uded
* Workload					
Total ~	1			persor	n-day
Work Type					
Select				^	¢
UI desig	jn				ata ava
Meeting	ļ				ata ava
General	I				
Training	J				
Researc	ch			. I.	
Other					
Replace	ement leave				

Figure 6-26 Adding a workload

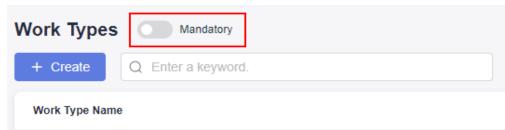
----End

#### **Configuring Whether Work Types Are Mandatory**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Work Types**.
- Step 3 Toggle on Mandatory.

By default, this option is toggled off.

Figure 6-27 Configuring work types



A red asterisk (\*) will be displayed next to **Work Type** on the **Add Workload** page, indicating that the work type is mandatory.

Figure 6-28 Adding a workload

Details	Attachment 0		2 을 Revie	ew 🕒 Work	oad 🕐	History
Add Wor	kload 🔘				×	
* Period						
Start date	-	End date		Weekend	ls included	
* Workload						
Total ~	1			þ	erson-day	9
Work Type						7
Select					~ ©	K
Work Conte	ent					
Max. 256	characters					
						ata a
		ОК Са	ncel			

----End

## 6.2.8 Configuring Work Item Status Roll-up Rules

Project creators or roles with the automation configuration permission can enable or disable automation rules as required to implement automatic parent-child status roll-up or status transfer. Once a rule is enabled, all work items and users in the project can trigger the rule.

#### Prerequisites

An IPD-system device project is available, in which you have the **Automation** permission.

#### Procedure

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Access the project details page and choose **Settings > Work Item > Automation**. The **Automation** page is displayed.

#### Step 3 Click Automation Rules.

**Step 4** Set **Enable** to enable or disable the configured rule.

For example, if the status rollup of SF work items is enabled, when you change the status of all child work items of an unfinished SF work item in the **Work Item** > **Req** > **Feature Tree** list to **Completed**, the status of the SF work item is automatically rolled up to **Completed**.

**NOTE** 

- If all child work items of the parent item meet the rule condition and the target status of the parent item supports transition, the rule is applied.
- If the parent item has any child work items that do not meet the rule condition, when the rule is triggered, a record indicating no operation performed is generated and the parent item status is not transitioned.
- If there is no parent item, when the rule is triggered, a record indicating that no operation performed is generated and the parent item status is not transitioned.
- If the parent item transition status configured in the rule does not support transition, when the rule is triggered, a record indicating an execution error is generated and the parent item status is not transitioned.
- **Step 5** Go to the work item list. The SF status is automatically updated to **Completed**, and an automation rule operation record is added to the **History** tab page.

----End

## 6.2.9 Configuring Notification Rules

• You can determine whether to inform project members about various operations.

For example, a member is informed of an assigned work item.

• Notifications can be sent via direct messages or emails.

#### Prerequisites

An IPD-system device project is available, and you have permission to **set notifications** for the project.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Notifications**.

#### Figure 6-29 Notifications page

Work Item Settings	Notifications					
Q. Search Keyword	Raw Requirements System Features R&D Requirements	ents Tasks Defects Review	Others WeCom			
Q Search Keyword						
Basic Configuration	Event	Receiver			Direct Message	Email
Work Item Management	Create/Submit RR	🗌 Creator 🛛 🥑 Owner	Finder	t 🗹 CC		
Tag Management	Modify an RR	🗌 Creator 🛛 🥑 Owner	Finder Recipient	t 🗹 CC		
Modules	Delete an RR	🗹 Creator 🛛 🗹 Owner	Finder Recipient	t 🗹 CC		
Downstream Projects	Change an RR	🗹 Creator 🛛 🗹 Owner	🕑 Finder 🛛 🗹 Recipient	t 🕝 CC		
Collaborate Downstream	Update a status	🕑 Creator 🛛 🥑 Owner	🕑 Finder 🛛 🕑 Recipient	t 🕑 CC		
Work Types	Comment on an RR	🗌 Creator 🛛 🥑 Owner	Finder Recipient	t 🗌 CC 🛛 🥑 @ed use		
Review						
Automation						
Notifications						
Import and export						

**Step 3** Select a work item type to configure notifications.

**Step 4** Select or deselect desired notification recipients and types.

After the setting is complete, the selected recipients will be notified when a corresponding event (for example, RR modification) occurs.

- **Direct Message**: When a member logs in to the homepage, they will see a number displayed next to  $\square$  in the upper right corner. They can click the icon to view notifications.
- **Email**: Project members who have an email address configured for their user and have enabled **Email Notifications** on the **This Account Settings** page will receive notification emails from the service.

----End

## 6.2.10 Viewing Work Item Import/Export Records

You can download the imported and exported work item files.

#### Prerequisites

Some work items have been imported or exported in a project.

#### **Viewing Export Records**

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to a project and choose **Settings > Work > Import/Export**.

#### Figure 6-30 Import and export records

Import/Ex	port Records () Operation records of the last	seven days are retained.				
Export Impo	ort					
No.	File Name	Туре 🝸	Operator	Exported	Progress	Operation
0 1	IPD .xlsx	Raw Requirements		Sep 14, 2024 10:50:18 GMT+08:00	100%	$\downarrow$
					Total: 1 1/1	~ <

**Step 3** Download the desired work items. All project members' export records of any types of work items will be displayed on this page.

----End

**NOTE** 

- Only the export records of the last seven days are retained.
- The project administrator can view the export records of all members in the current project.

#### **Viewing Import Records**

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to an IPD-system device project and choose **Settings > Work > Import/Export**.

**Step 3** Download the desired work items. All project members' import records of any types of work items will be displayed on this page.

----End

**NOTE** 

- Only the import records of the last month are retained.
- The project administrator can view the import records of all members in the current project.

## 6.3 Creating and Managing RRs

## 6.3.1 RR Status Transition Process

By default, the life cycle of an RR consists of the **Analyzing**, **Confirm**, **Planning**, **Implementing**, **Delivering**, **Accepting**, and **Closed** states. **Figure 6-31** shows the complete status transition process.

Figure 6-31 RR status transition flowchart

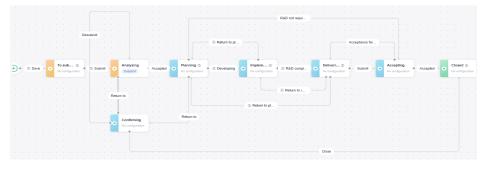


Table 6-6 lists the default operations in each RR state.

Table 6-6 Operation	description
---------------------	-------------

State	Description
	When you create an RR, the status is by default after you save it as a draft.
	The requirement proposer is by default the person who creates the requirement.
Analyzing	After the RR is submitted, the state changes to <b>Analyzing</b> .
	The requirement recipient can analyze whether to accept the requirement based on the requirement content. If not, the requirement can be returned or suspended.
	After the requirement is returned, the state changes to <b>Confirming</b> . The requirement proposer can directly cancel the requirement or submit the requirement again.

State	Description
Planning	After the RR is accepted, the state changes to <b>Planning</b> .
	The requirement recipient makes development plan on the requirement. If the requirement does not involve R&D, select <b>R&amp;D not required</b> , and the state of the requirement changes to <b>Accepting</b> .
Implementi ng	After the R&D of the RR starts, the state changes to <b>Implementing</b> .
	If there is any problem with the implementation solution, the requirement recipient can return the requirement to the planning phase.
Delivering	After the R&D of the RR is completed, the state changes to <b>Delivering</b> .
	If the delivery cannot meet the expectation, the requirement recipient can return the requirement to the planning or implementing phase.
Accepting	After the RR is submitted for acceptance, the state changes to <b>Accepting</b> .
	The requirement proposer checks whether the content of the requirement meets acceptance conditions. If not, select <b>Acceptance failed</b> and the state of the requirement goes back to <b>Delivering</b> .
Closed	After the RR is accepted, the state changes to <b>Closed</b> .

## 6.3.2 Creating RRs

Original problems or requirements described from the perspective of customers can be managed as RRs. By creating an RR, you can set the background, value, details, and priority of the requirement.

#### Prerequisites

There is an IPD-system device project, in which you have permission to **create and duplicate** RRs.

#### **Creating RRs**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, click **Raw Requirements**.
- Step 3 Click RR. On the RR page, set related parameters.

#### Table 6-7 Creating an RR

Parameter	Description
Title	Name of an RR.
Description	Enter the background, value, and details of the RR based on actual conditions. Use text, images, or links.
Attachment	The maximum number of attachments for a raw requirement is 100, and the total size of them should be no more than 50 MB.
Proposed Project	By default, it is the project to which the RR belongs and cannot be changed.
Raised By	By default, it is the creator of the RR. Multiple creators can be selected.
Responsible Project	<ul> <li>Project to which the RR belongs.</li> <li>If the current project is selected, this requirement is internal.</li> <li>If another project of the tenant is selected, the requirement is submitted to external parties.</li> <li>The current project is selected by default.</li> </ul>
Recipient	Owner who undertakes the RR. If multiple recipients are selected, data will be synchronized based on the recipients' processing speed.
Expected Completion	Expected completion time of the RR.
Priority	Priority of an RR, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Сору То	Other members of the project team.

- **Step 4** Click **Submit**. The **Raw Requirements** page is displayed and "Request submitted successfully" is displayed in the upper right corner.
  - If you click **Save Draft**, the RR list is displayed. The requirement status is **To submit**.
  - If you click **Cancel**, the creation of the RR is cancelled.

The new requirement is displayed in the RR list, and the requirement state is **Analyzing**. If another project of the tenant is selected for **Responsible Project**, choose **Other Projects** to view the new RR.

#### D NOTE

After an RR is created, the people selected for **Raised By**, **Recipient**, and **Copy To** will receive email notifications and internal message notifications. If not, set notifications or modify notification settings. For details, see **Configuring Notification Rules**.

----End

#### **Related Operations**

You can perform the following operations on a new RR.

Table 6-8 Basic operations on an RR
-------------------------------------

Operation	Description
Modify RR title	Click 🖉 next to an RR title to modify it.
Modify RR field	Click the target field value in the row of an RR to modify the value.
Create child requirement	Click $\overset{\mathbb{C}^{\circ}}{\leftarrow}$ in the <b>Operation</b> column of an RR to break it down into child requirements.
	<ul> <li>In the Break Down Subrequirements dialog box, click Add Subrequirement to create a child requirement. A maximum of 10 child requirements can be created at a time.</li> </ul>
	<ul> <li>The project to which a child requirement belongs can be the current project or other projects of the tenant. To configure the project scope, choose Settings &gt; Work &gt; RR Downstream Projects.</li> </ul>
Associate with child requirement	Click <i>O</i> in the <b>Operation</b> column of an RR to associate it with child requirements.
Duplicate RR	Choose <b>Duplicate</b> in the <b>Operation</b> column of an RR. The procedure for duplicating an RR is the same as that for creating an RR.
View RR association map	Choose <b>&gt; Association Map</b> in the <b>Operation</b> column of an RR to view all data of its related items.
Copy RR link	Choose *** > <b>Copy Link</b> in the <b>Operation</b> column of an RR to copy its title, ID, owner, status, and link to the clipboard.

Operation	Description
Migrate RR	Choose *** > <b>Migrate</b> in the <b>Operation</b> column of an RR to migrate it to other projects.
	NOTE
	RRs in draft state cannot be migrated.
	• After the requirement is migrated to another project, the system automatically removes the tag of the RR and disassociates the RR from the associated work item.
	• After the migration, the RR will be re-executed. The system will automatically clear the actual workloads, retain only the fields of the same type as the original work item, and remove redundant fields.
Delete RR	Choose *** > <b>Delete</b> in the <b>Operation</b> column of an RR to delete it.
	NOTE
	• RRs that are being reviewed or in progress cannot be deleted.
	• If a drafted RR is deleted, it is permanently deleted.
	• RRs in the <b>To Do</b> state can be deleted only in the proposing project. RRs in the <b>Done</b> state can be deleted in both the proposing project and the responsible project.
	• If an RR of a proposing project is deleted, it is permanently deleted. If an RR of a responsible project is deleted, it is moved to the project's recycle bin.
	• RRs in the recycle bin can be restored or permanently deleted. After being restored, RRs restore to their original status. Data in the recycle bin will be permanently deleted in 30 days.

## 6.3.3 Managing RRs

After creating an RR (see **Creating RRs**), you can perform the operations described in this section on it.

#### Prerequisites

You have created an RR in an IPD-system device project, and have RR permissions for the project.

#### On the RR List Page

Go to the project homepage, choose **Work > Req > Raw Requirements**, and perform the following operations.

#### Figure 6-32 RR list

Homepage / IPD项目 FreeTrial / Work								
Raw Requirements         Feature Tree         R&D Requirements         Tasks         Defects         Review	Statistics Plan	IS				🙂 F	Feedback 🗊 Recyc	cle Bin
This Project Other Projects + RR Unfinished • Q Status: To submit   Analyzing   Pl	an × Add litters.						פ≡	
□ 🕀 Title	Status 🕒 🍸	Priority 🕒 🍸	Collaboration Status	Days Idle 😑 🝸	Responsible Pro	Owner T	Operation	٥
RR POWEOCKALD RR20240920722516	Analyzing	Medium		0 day	IPD项目	hwstaff_p_P	¢ 0 ···	
RR-协同 RR20240913717073	To submit	Medium	Received	5 days	IPD项目	hwstaff_p_P	⊕ ≼ …	
Image: Rest (KKKKKKKK)           Image: Rest (KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	Planning	Medium	Assign	0 day	IPD项目	hwstaff_p_P	Ç. ⊘ …	

Operation	Procedure
Query RR	By adding filters
	1. Click the search box in the RR list and select one or more filters to search for RRs.
	2. To clear all filters and display all data, click $^{ imes}$ on the right of the search bar.
	By using a saved view
	1. Click the search box in the RR list and select one or more filters.
	2. Click $\square$ on the rightmost of the search bar, and enter a

RRs that meet the search criteria.

3. Click OK. The created view is displayed next to RR.

4. You can select the name of the created view to query the

Views can be shared with others, modified, and deleted.

#### Table 6-9 Management operations in the RR list

view name.

Operation	Procedure
Import work	Use the provided template to import requirements in batches.
items	1. In the RR list, click <sup>***</sup> on the right of the search bar and select <b>Import</b> .
	<ol> <li>In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>RR</b>) + <b>Template</b>.</li> </ol>
	<ol> <li>Fill in the fields on the RR - Requirements sheet.</li> <li>For details about how to set parameters, see the RR - Import Rules sheet in the template file.</li> </ol>
	4. Drag or click 📮 to select a file to be imported.
	5. Click <b>Import</b> . The import progress dialog box is displayed.
	• After the import is successful, you can view the imported requirement information in the RR list.
	<ul> <li>If the import fails, a message is displayed in the upper right corner of the page. Click View Failure Details in the message to view the failure details. You can modify the requirement information based on the details and import the template again.</li> <li>NOTE         For details about operations on import records, see Viewing Work Item Import/Export Records.     </li> </ul>
Export work	Export requirements in batches to an Excel file.
items	1. Export some or all RRs.
	• Export all: On the <b>Raw Requirements</b> page, click <sup></sup> on the right of the search bar and choose <b>Export</b> . The <b>Select Fields to Export</b> dialog box is displayed.
	• Export some: In the RR list, select one or more RRs to be exported and click <b>Export</b> at the bottom of the page. The <b>Select Fields to Export</b> dialog box is displayed.
	2. Select the fields to be exported and determine whether to export child requirements.
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the RRs are exported, the RR file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.

Operation	Procedure
Configure fields to	Click 🍄 next to the <b>Operation</b> field.
display	<ul> <li>On the left of the pop-up box, select the fields to be displayed in Available.</li> </ul>
	• On the right of the pop-up box, drag the fields in <b>Selected</b> to adjust the display sequence.

#### On the RR Details Page

On the details page of an RR, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

#### Figure 6-33 RR details page

RR20240920722516 created at Sep 20, 2024 11:45:02 GMT+08:00 Tag +	Suspend	Return to Acc	cepted -	··· "× ×
RR PQWEOCKALD				
To submit Analyzing Planning Implementing	Delivering	Accepting		Closed
Entails      Ø Attachment 0      C <sup>2</sup> Related Items 0      Beview      O Workload      O History				
Description	🖉 Edit	* Status	Analyzing	
	[]	Proposed Pro	IPD:	
DFSF		* Raised By		
[ ] FDFG		* Responsible	IPD:	
[ ]		* Recipient		
GDDS		* Owner		
		Expected Co	Select	
		* Priority	Medium	
		Planned Com		
Comments	Ali 🔻 JF	Planned @		
Enter a comment. Use @ to notify others.				
		Sum Actu 🛞		
		Сору То	Select	

<b>Table 6-10</b> Management operations on the details page
---

Operatio n	Procedure	Remarks
Edit work item	On the RR details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop-down list. The modification is saved immediately.	You must have permission to <b>edit</b> RRs.

Operatio n	Procedure	Remarks
Change work item status	Go to the work item details page. Click the transition button in the upper right corner to transition the work item to the target status. For details about status transition, see <b>Table 6-6</b> .	You must have permission to <b>set</b> <b>statuses</b> for RRs.
Upload attachme nt	<ul> <li>Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.</li> <li>1. Go to the work item details page, and click the attachment tak.</li> </ul>	You must have permission to <b>upload</b> attachmen ts for RRs.
	<ul> <li>Attachment tab.</li> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box. When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> <li>Move the cursor to the file that is successfully</li> </ul>	
	uploaded. The operations that can be performed are displayed.	
	<ul> <li>Click download the file.</li> <li>Click download the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks
Add and check	A work item can be associated with other types of work items in a project.	You must have
related items	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permissior to <b>deliver</b> assignme
	Figure 6-34 Related items	t, break down/ associate/
	Betails	dissociate
	> Subrequirement(0)   C, Break Down 🥝 Associate	requireme nts,
	> Related Upstream Requirements(0)	create/
	Related Downstream Requirements(1)     P Distribute Requirement     Associate Work Item(0) + Create      Existing	associate, dissociate
	Files (0) Ø Associate	work items,
	> Wiki(0)   Ø Associate	associate, dissociate
	2. Complete association.	files, and associate
	• <b>Related Upstream Requirements</b> : requirements coordinated from upstream projects. The upstream requirement information is displayed in the current project only when this project is selected as the responsible project for the created <b>Related Downstream</b> <b>Requirements</b> in the RR of another project.	dissociate wikis for RRs.
	Assume that the name of the current project is "IPD Project" and that of another project is "IPD Project 2". The method of synchronizing upstream requirement information is as follows:	
	1. Create a project named "IPD Project 2".	
	2. Create an RR named "RR-IPD2" in <b>IPD Project</b> <b>2</b> .	
	3. After the RR is created, enter its details page.	
	<ol> <li>Choose Related Items &gt; Related</li> <li>Downstream Requirements and click</li> <li>Distribute Requirement.</li> </ol>	
	5. Set <b>Responsible Project</b> to <b>IPD-Project</b> and the raw requirement name to <b>RR-Synergy</b> .	
	6. After the assignment, click the requirement title "RR-Synergy" to access "IPD Project" where this requirement is located. On the RR-Synergy details page, choose <b>Related Items &gt; Related</b> <b>Upstream Requirements</b> to view the corresponding requirement information.	

Operatio n	Procedure	Remarks
	In the RR list, <b>Collaboration Status</b> of the RR- Synergy requirement is <b>Received</b> in orange, and <b>Status</b> is <b>Analyzing</b> .	
	Figure 6-35 RR list	
	<b>NOTE</b> Different colors of <b>Received</b> indicate different meanings.	
	Received : Before a requirement is accepted, the color of <b>Received</b> is orange. Received : After a requirement is accepted, the color of <b>Received</b> turns green.	
	Received : After a requirement is	
	<ul> <li>rejected, the color of Received turns red.</li> <li>Related Downstream Requirements: requirements assigned to downstream projects. A maximum of 10 requirements can be assigned at a time. One requirement is displayed by default and cannot be deleted.</li> </ul>	
	1. Click <b>Distribute Requirement</b> . The <b>Distribute</b> <b>Requirement</b> dialog box is displayed.	
	2. Configure the information about requirement assignment. The current project cannot be selected for <b>Responsible Project</b> . If only the current project exists in the system and no value is available for this parameter, requirement assignment cannot be performed.	

Operatio n	Procedure	Remarks
	<b>Figure 6-36</b> Requirement assignment	
	+ Add	
	3. After configuring the requirement assignment information, click <b>OK</b> . Click the requirement title "RR-test" to access "IPD Project 2" where this requirement is located.	
	In the RR list, <b>Collaboration Status</b> of the requirement is <b>Delivered</b> in orange. <b>NOTE</b> Different colors of <b>Assign</b> indicate different meanings.	
	Assign : If the current requirement has unprocessed downstream collaboration requirements, the color of <b>Assign</b> is orange.	
	Assign : After all downstream collaboration requirements under the current requirement are accepted, the color of <b>Assign</b> turns green.	
	Assign : If the current requirement has returned downstream collaboration requirements, the color of Assign is red.	
	• <b>Subrequirement</b> : child work items broken down from the current work item. The operations vary according to the state. Perform operations based on the functions displayed on the page and the actual project situation.	
	Click Break Down to add a child requirement.	
	Each requirement can be broken down into a maximum of 10 child requirements at a time. One child requirement is displayed by default and cannot be deleted. Click I to expand and configure more information.	
	After the child requirements are created, you can check and edit them on the <b>R&amp;D Requirements</b> tab.	

Operatio n	Procedure	Remarks
	• Associate Work Item: associated work items of other types in the project. The operations vary according to the state. Perform operations based on the functions displayed on the page and the actual project situation.	
	<ul> <li>Features, tasks, and bugs can be associated.</li> <li>Files: raw requirement files. Select a file associated with the current requirement. You can upload a local file.</li> <li>Wiki: raw requirement wikis. Select a wiki associated with the current requirement. You can create a wiki.</li> </ul>	
Check review record	<ul> <li>You can check the review records related to requirements only in the following situations:</li> <li>When you modify the controlled content of an RR, a change process is automatically triggered. Only then will you be able to view the review record in <b>Review</b> of the corresponding requirement details page.</li> <li>When you click an RR in the <b>Confirm</b>, <b>Planning</b>, or <b>Implementing</b> state and modify controlled fields with an on the details page, a dialog box is</li> </ul>	You must have permission to <b>view</b> RRs.
	<ul> <li>displayed, indicating that the change approval process is required.</li> <li>You can view the review records in <b>Review</b> of the corresponding requirement details page only when the requirement has general review records.</li> </ul>	

Operatio n	Procedure	Remarks
Add workload	<ol> <li>Go to the details page of a work item and click Workload.</li> </ol>	You must have
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>
	3. Enter the workload information.	person- hours for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	RRs. Workloads
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	can be edited and deleted by
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	the creator. By default,
	<ul> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul>	administrat or can edit and delete
	<ol> <li>Click OK. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	workloads.
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload adding.	You must have permission
	1. Go to the work item details page.	to <b>view</b>
	2. Click the <b>History</b> tab.	RRs.
	<ul> <li>Click I or T to check historical records in the ascending or descending order of operation time.</li> </ul>	
	<ul> <li>You can set search criteria to query historical records that meet the search criteria.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> <li>Click OK. The new tag is displayed next to the requirement ID in the RR list.</li> <li>(Optional) Hide a tag.</li> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> <li>Figure 6-37 Hiding a tag - 01</li> <li>Tag + C Preak Down Subrequ</li> <li>Enter a keyword.</li> <li>×uqiu1</li> </ol>	You must have permission to <b>edit</b> RRs.

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the <b>Details</b> tab page, click the <b>Comments</b> text box.</li> <li>Figure 6-39 Adding a comment</li> </ol>	You must have permission to <b>view</b> RRs.
	Comments All + IF 	
	Enter a comment. Use @ to notify others. Suturnt Cancel	
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> </ol>	
	<ol> <li>Click Submit.</li> <li>Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 6.4 Creating and Managing Feature Tree and System Features

## 6.4.1 Creating a Feature Tree

The system provides multiple methods for creating a feature tree, including inheriting the feature tree from another project, directly creating a feature tree, and importing an Excel file.

You can create a feature tree by inheriting or importing one only when there is no feature tree in the current project.

#### Prerequisites

An IPD-system device project is available, and you have permission to **create**, **inherit**, **and import feature sets** for the project.

#### **Creating a Feature Set**

Step 1 Access the CodeArts Req homepage.

**Step 2** On the project homepage, choose **Feature Tree**.

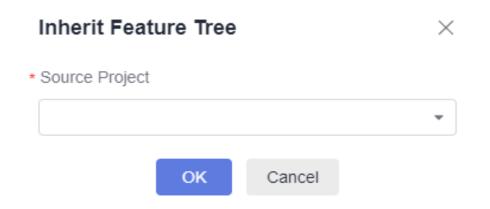
Step 3	Click 🛨. The <b>Create Feature Set</b> dialog box is displayed.		
	Figure 6-40 Creating a feature set		
	Create Feature Set	$\times$	
	* Title		
	Title		
	OK Cancel		
	L		
Step 4	Set <b>Title</b> .		
Step 5	Click <b>OK</b> .		
	You can view the new feature set in the feature tree list.		

----End

#### Inheriting a Feature Tree

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Feature Tree**.
- **Step 3** Click **Inherit Feature Tree**. The **Inherit Feature Tree** dialog box is displayed.

Figure 6-41 Inheriting a feature tree



**Step 4** Select a project for which a feature tree has been configured. The feature tree and all included system features of the selected project can be inherited to the current project.

#### Step 5 Click OK.

In the feature tree list, you can view the feature tree inherited from another project.

----End

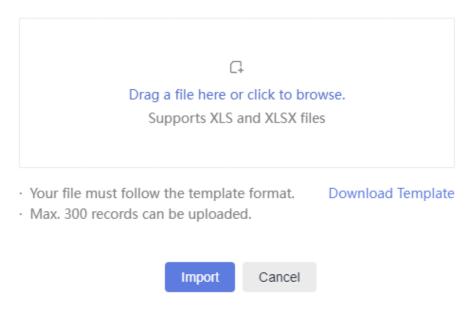
#### **Importing a Feature Tree**

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, choose Feature Tree.
- **Step 3** Click **Import Feature Tree**. The **Import** dialog box is displayed.

Figure 6-42 Importing a feature tree

#### Import

 $\times$ 



- Step 4 Click Download Template. The import template file is displayed in the upper right corner of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: *Project name* + "-" + *Module name* (for example, Feature) + Template.
- **Step 5** Set the fields in the **SF List** sheet of the template. For details about how to set parameters, see the **SF Import Rules** sheet in the template.
- **Step 6** Drag or click <sup>[]</sup> to select a file to be imported.
- Step 7 Click Import.

You can view the imported feature sets in the feature tree list.

----End

#### **Related Operations**

You can perform the following operations on a new feature set.

 Table 6-11
 Basic operations on a feature set

Operation	Description
Create child feature set 1. Click + next to the target feature set. The <b>Create</b> <b>Feature Set</b> dialog box is displayed.	
	2. Set <b>Title</b> .
	3. Click <b>OK</b> . You can view the new second-level feature set in the corresponding feature set.
	Figure 6-43 Child feature sets
	Raw Requirements Feature Tree R&D F
	Current Version 🔹 💿 🛄 …
	Q Search by keyword.
	+
	+
	You can create third-level feature sets for a second-level one. A maximum of 10 levels of feature sets are supported. The child feature sets can be edited and deleted.
Edit feature set	Click •••• on the right of the target feature set, and click <b>Edit</b> to edit the title.

Operation	Description
Delete feature set	<ol> <li>Click •••• on the right of the target feature set, and click Delete.</li> </ol>
	Figure 6-44 Deleting a feature set
	🛕 Warning X
	Do you want to delete this requirement? Deleted data
	can be restored in the recycle bin. Hints: After the deletion, the labor hour data will be deleted
	accordingly.
	Delete Cancel
	<ol> <li>Click <b>Delete</b>. The deleted feature set and its child feature sets will not be display on the page.</li> </ol>
	<b>NOTE</b> Deleted feature sets can be restored or permanently deleted from the recycle bin.

# 6.4.2 Managing a Feature Tree

After creating a feature tree (see **Creating a Feature Tree**), you can perform the operations described in this section on it.

# Prerequisites

You have created a feature set in an IPD-system device project, and have feature set permissions for the project.

## Procedure

On the project homepage, choose **Work > Req > Feature Tree**, and perform the following operations.

#### Figure 6-45 Feature tree list

	FS20240913717182 + SF All •	Q Add fillers.					
2 Search by keyword.	Title I Title	Status 🖨 T	Feature Set 🕘	Priority 😑 🕇	Owner 🕘 T	Planned 🕥	Operation
+ IPD- +	□ SF 1 SF20240918720555	R&D	IPD	• Medium	hwstaff_p	-	C‡ ⊕ …
	IR20240918720559	Initial	-	Medium	hwstaff_p	-	€; ⊕ …

Operation	Procedure					
Search for feature set	<ol> <li>On the project homepage, choose Feature Tree.</li> <li>Enter a keyword in the search box to search for the target feature set.</li> </ol>					
Associate system feature with feature set	<ul> <li>You can create system features or associate existing ones with a feature tree. System features of the same type can be put in the same feature set for easy management.</li> <li>Creating a system feature</li> </ul>					
	<ol> <li>Click the name of the feature set to associate a system feature.</li> <li>Click SF.</li> </ol>					
	<ol> <li>Enter system feature information. For details, see</li> <li>Procedure.</li> </ol>					
	<ol> <li>Click <b>OK</b>. The new system feature is displayed under the corresponding feature set.</li> </ol>					

### Table 6-12 Managing a feature tree

Operation	Procedure				
Create feature tree	You can create a baseline based on the current feature tree version.				
baseline snapshot	1. On the project homepage, choose <b>Feature Tree</b> .				
	2. Click <sup>1</sup> . The <b>Feature Tree Version Snapshot</b> dialog box is displayed.				
	Figure 6-46 Creating a feature tree snapshot				
	Feature Tree Version Snapshot $\qquad  imes$				
	After the snapshot of the property tree version is complete, you can view the contents of the snapshot after switching to the historical version.				
	* Name				
	OK Cancel				
	<ol> <li>Enter a snapshot name.</li> <li>Click OK. By default, the current version is displayed. To the snapshot record of the feature tree version, click          on the right and select the version to be viewed. The snapshot of the corresponding version is displayed.</li> </ol>				
	Figure 6-47 Viewing feature tree version snapshots				
	Current Version 💌 💿 🛄 …				

Operation	Procedure						
Compare	You can compare feature tree snapshots of different versions.						
feature tree version	1. On the project homepage, choose <b>Feature Tree</b> .						
snapshots	2. Click 🛄 . The snapshot comparison page is displayed.						
	3. Select the baseline snapshot version to be compared.						
	<ol> <li>Click the name of the system feature to be compared. The system feature comparison page is displayed.</li> <li>If a system feature is snapshotted for multiple times based on the feature tree, multiple versions will be generated. You can select and compare different versions.</li> </ol>						
	To compare system feature versions, check historical versions on the <b>Feature Tree</b> page.						
	1. On the project homepage, choose <b>Feature Tree</b> .						
	2. Click the names of the system features to be compared. The version comparison page is displayed.						
	<ul> <li>If a system feature is snapshotted for multiple times on the Feature Tree page, multiple versions will be generated. You can select and compare different versions.</li> </ul>						
Import	Use the provided template to import a feature tree.						
feature tree	1. On the project homepage, choose <b>Feature Tree</b> .						
	2. Click *** on the right of <b>Current Version</b> , and select <b>Import</b> <b>Feature Tree</b> .						
	3. In the displayed dialog box, click <b>Download Template</b> .						
	4. Set the fields in the template. For details, see the import description in the template file.						
	5. Select the file to be imported.						
	6. Click <b>Import</b> and complete the import as prompted.						
Export	Export a feature tree with desired fields to an Excel file.						
feature tree	1. On the project homepage, choose <b>Feature Tree</b> .						
	2. Click *** on the right of <b>Current Version</b> , and select <b>Export</b> <b>Feature Tree</b> .						
	3. In the displayed dialog box, select fields to be exported.						
	<ol> <li>Click Export. After the feature tree is exported, the file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>						

# 6.4.3 System Feature Status Transition Process

The entire lifecycle of a system feature consists of the **Initial**, **R&D**, and **Completed** states. **Figure 6-48** shows the complete status transition process.



Figure 6-48 System feature status transition process

Table 6-13 describes the operations in each status.

Table 6-13 Operation description

Status	Description
Initial	When a system feature is created, the state is <b>Initial</b> by default.
R&D	After the system feature in the <b>Initial</b> state is handled, the state changes to <b>R&amp;D</b> .
Completed	After the system feature is developed, the state changes to <b>Completed</b> .

# 6.4.4 Creating System Features

Major capabilities of offering requirements or services to support a problem (PB) can be managed in system features. When creating a system feature, you can set its background, value, details, and priority.

# Prerequisites

An IPD-system device project is available, and you have permission to **create and duplicate features** for the project.

# Procedure

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, choose Feature Tree.
- Step 3 Click SF. On the SF page, set the required parameters.

Table 6-14 System feat	ure parameters
------------------------	----------------

Paramete r	Description
Tag	When creating or editing a work item, you can add a customized tag.
	Tag names can be marked in different colors.

Paramete r	Description
Title	Name of a system feature.
Descriptio n	Enter the background, value, and details of the feature. The description can include text, images, or links.
Attachme nt	A maximum of 100 attachments can be added to a system feature, and the total capacity is 50 MB.
Responsib le Project	Project that the system feature belongs to. The value cannot be changed.
Owner	Owner of the system feature. Only one owner can be selected. The default owner is the creator.
Feature Set	The feature set to which the system feature belongs is a home structure of the feature tree.
	This parameter has a value only after the operations in <b>Creating a</b> Feature Set are completed.
	The parameter value can be empty. You can associate the parameter with the corresponding system feature after creating a feature tree.
Priority	Priority of the system feature, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Planned Start	Planned start time.
Planned Completio n	The planned completion time cannot be earlier than the planned start time.
Planned Workload	Estimated workload that will be required.
High Value	Whether the system feature is a key feature. The value can be <b>Yes</b> or <b>No</b> .
Used For	Scenario with a maximum of 512 characters.
Domain	Domain to which the system feature belongs. The options include software and hardware, hardware, performance, operations, and user experience. Select one based on the system feature.
Сору То	Person to whom the system feature is copied.

**Step 4** Click **OK**. The feature tree page is displayed. A message indicating system feature created is displayed in the upper right corner.

The new system feature is displayed in the feature tree, and the system feature state is **Initial**.

#### Figure 6-49 Feature tree

Homepage / IPD	Trial / Work										
Raw Requirements Fe:	ature Tree R&D	Requirements	Tasks Defects Review	Statistics Plans						💮 Fe	edback 🌐 Recycle Bir
Current Version 🔹	ō [] …	iPD	FS20240920721957	+ SF All•	Q Add filters.						
Q Search by keyword.	•		itte 💿 🍸			Status 🕒 T	Feature Set 💿	Priority 🕒 🝸	Owner 🕒 T	Planned 💿	Operation 📀
IPD:	+		SF20240920721581			Initial	IPDI	Medium		-	୯ ⊞ …
555	+ …		SF20240920722413			Initial	IPDI	• Medium		-	¢ ⊕ …
			SF SF20240920722614			Initial	IPDI	Medium		-	¢ ⊕ …

#### **NOTE**

After a system feature is created, the people selected for **Owner** and **Copy To** will receive email notifications and direct message notifications. If not, configure or modify notification settings. For details, see **Configuring Notification Rules**.

----End

## **Related Operations**

You can perform the following operations on a new system feature.

Operation	Description			
Modify system feature title	Click $\ensuremath{ \square}$ next to a system feature title to modify it.			
Modify system feature field	Click the target field value in the row of a system feature to modify the value.			
Create child requirement	Click $\[Carbox]^{\circ}$ in the <b>Operation</b> column of a system feature to break it down into child requirements.			
	• In the <b>Break Down Subrequirements</b> dialog box, click <b>Add</b> <b>Subrequirement</b> to create a child requirement. A maximum of 10 child requirements can be created at a time.			
Duplicate system feature	Choose *** > <b>Duplicate</b> in the <b>Operation</b> column. This process is the same as that of creating a feature.			
View system feature association map	Choose <b>***</b> > <b>Association Map</b> in the <b>Operation</b> column of a system feature to view all data of its related items.			
Copy system feature link	Choose <b>Copy Link</b> in the <b>Operation</b> column of a system feature to copy its title, ID, owner, status, and link to the clipboard.			

 Table 6-15 Basic system feature operations

Operation	Description
Delete system feature	<ul> <li>Choose &gt; Delete in the Operation column of a system feature to delete it.</li> <li>NOTE</li> <li>System features in change or baseline review cannot be deleted.</li> <li>Once deleted, a system feature is moved to the recycle bin. System features in the recycle bin can be restored or permanently deleted. After a system feature is restored from the recycle bin, it restores to the original status.</li> </ul>
Batch operations	Select multiple system features and perform the following operations: Baseline Cancel baseline Change Baseline review Edit Suspend Cancel suspension Export Delete

# 6.4.5 Managing System Features

After creating a system feature (see **Procedure**), you can perform the operations described in this section on it.

# Prerequisites

You have created a system feature in an IPD-system device project, and have system feature permissions for the project.

# Managing System Features on the System Feature List Page

Go to the project homepage, choose **Work > Req > Feature Tree**, and perform the following operations.

## Figure 6-50 System feature list page

IPD-	FS20240913717182 + SF All •	Q Add filters.					
	+ Title 🕘 T	Status 🕒 🕇	Feature Set 🕥	Priority 🕒 🕇	Owner 🖨 T	Planned 📵	Operation 📀
	SF 99999999 SF20240918720963	Initial	IPD-	• Medium	hwstaff_p		¢ ⊕ …
	SF 0520240918722022	Initial	IPD-	<ul> <li>Medium</li> </ul>	hwstaff_p		4 ⊕ …
	SF SF20240918720563	Initial	IPD-	Medium	hwstaff_p		¢ ⊕ …
	SF hhhhhhhh SF20240918720296	Initial	IPD-	Medium	hwstaff_p		ে ⊕ …
	SF) hhhhhh SF20240918720295	Initial	IPD-	Medium	hwstaff_p		¢ ⊕ …
	SF 9494949 SF20240918721348	Initial	IPD-	Medium	hwstaff_p		¢ 🗊 …
	SF 33333 SF20240918721921	Initial	IPD-	Medium	hwstaff_p		¢ 🗊 …
		R&D	IPD-	Medium	hwstaff_p		¢ ⊕ …

#### Table 6-16 Management operations in the system feature list

Operati on	Procedure	Remarks
Search for system feature	<ul> <li>By adding filters</li> <li>Click the search box in the feature list and select one or more filters to search for system features.</li> <li>To clear all filters and display all data, click × on the right of the search bar.</li> <li>By using a saved view</li> <li>Click the search box in the system feature list and select one or more filters.</li> <li>Click □ on the rightmost of the search bar, and enter a view name.</li> <li>Click Confirm. The created view is displayed next to the SF button.</li> </ul>	You must have permissio n to <b>view</b> features.
	<ol> <li>Select the created view to query the system features that meet the search criteria. Views can be shared with others, modified, and deleted.</li> </ol>	

Operati on	Procedure	Remarks
Import	Use the provided template to import system features.	You must
work items	1. In the system feature list, click <sup>•••</sup> on the right of the search bar, and select <b>Import SF</b> .	have permissio n to
	<ol> <li>In the displayed dialog box, click Download Template. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, Feature) + Template.</li> </ol>	import features.
	<ol> <li>Set the fields in the SF - List sheet of the template.</li> <li>For details about how to set parameters, see the SF - Import Rules sheet in the template.</li> </ol>	
	4. Drag or click $\Box$ to select a file to be imported.	
	5. Click <b>Import</b> . The import progress dialog box is displayed.	
	<ul> <li>After the import is successful, you can view the imported requirement information in the system feature list.</li> </ul>	
	• If the import fails, a message is displayed in the upper right corner of the page. Click <b>View Failure Details</b> in the message to view the failure details. You can modify the requirement information based on the details and import the template again.	
	NOTE For details about operations on import records, see Viewing Work Item Import/Export Records.	

Operati on	Procedure	Remarks
Export work items	Export system features in batches to an Excel file. 1. Export some or all system features.	You must have permissio
	<ul> <li>Export all: On the Feature Tree page, click *** on the right of the search bar and choose Export All. The Select Fields to Export dialog box is displayed.</li> </ul>	n to export features.
	• Export some: In the feature list, select one or more system features to be exported and click <b>Export</b> at the bottom of the page. The <b>Select Fields to Export</b> dialog box is displayed.	
	2. Select the fields to be exported.	
	<ul> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the system features are exported, the feature file will be automatically downloaded to the local PC. The file format is .xlsx.</li> <li>NOTE         <ul> <li>For details about operations on export records, see Viewing Work Item Import/Export Records.</li> </ul> </li> </ul>	
Configur	Click 🍄 next to the <b>Operation</b> field.	You must
e fields to display	<ul> <li>On the left of the pop-up box, select the fields to be displayed.</li> </ul>	have permissio n to <b>view</b>
aispiay	• On the right of the pop-up box, drag the fields in the <b>Selected</b> area to adjust the display sequence.	n to <b>view</b> features.

# Managing System Features on Their Details Pages

On the details page of a system feature, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

🗉 G FH	HG D HDFHGDFG							
	Initial			R&D		C	Completed	
Details	@ Attachment 0 @ Related	Items 0 🔒 Review	() Workload	C History				
Descript	tion				🖉 Ed	t Status	Initial	
[	1				[]	* Owner		
[	1					* Feature Set 🛞	IPD	
						Priority	<ul> <li>Medium</li> </ul>	
[	1					Planned Start	Select	
						Planned Com	Select	
						Planned @	Required.	
						Sum Actu @		
omments	1				All + JF	High Value	No	
Enter a co	omment. Use @ to notify others.					Used For	Required.	
						Domain	-Select-	
						Сору То	-Select-	

Figure 6-51 System feature details page

Operatio n	Procedure	Remarks
Edit work item	On the system feature details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop- down list. The changes are saved automatically.	You must have permission to <b>edit</b> features.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 6-13</b> .	You must have permission to <b>set</b> <b>statuses</b> for features.
Baseline feature	<ol> <li>Go to the work item details page, and choose ***         <ul> <li>Baseline. The Baseline dialog box is displayed.</li> </ul> </li> <li>Click OK.         <ul> <li>The SF® icon is displayed on the left of the system feature title.</li> </ul> </li> <li>NOTE         <ul> <li>The baseline of a system feature can be canceled.</li> </ul> </li> </ol>	You must have permission to <b>baseline</b> features.

Operatio n	Procedure	Remarks
Initiate baseline review	<ol> <li>Go to the work item details page, and choose         <ul> <li>Baseline Review. The BR page is displayed.</li> </ul> </li> <li>Enter BR information.             By default, the Baseline Object is the system             feature for which the baseline review is initiated.</li> <li>Click Submit. The Review page is displayed.             Choose Review &gt; Baseline Review to check the             new baseline review.</li> <li>Switch to the Feature Tree page. The icon of the             system feature that is under baseline review is             displayed as             SF</li></ol>	You must have permission to <b>view</b> features.
Initiate change review	<ul> <li>The change process can be initiated only for baselined system features.</li> <li>1. Go to the details page of a baselined work item, and choose &gt; Change Review. The CR page is displayed.</li> <li>2. Enter CR information.</li> <li>Change Object: By default, it is the system feature to be changed.</li> <li>Collaborative Parent Item Change: Only existing CRs can be added.</li> <li>3. Click Submit. The Review page is displayed. Choose Review &gt; Change Review to check the new CR in the change process. The CR state is Pending review by default.</li> <li>NOTE Track the progress of the change review. Only when the state is Approved, which means that the change review has been processed, will the changed content display in the corresponding system feature.</li> </ul>	You must have permission to <b>view</b> features.

Operatio n	Procedure	Remarks
Upload attachme nt	<ul> <li>Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.</li> <li>1. Go to the work item details page, and click the Attachment tab.</li> </ul>	You must have permission to <b>upload</b> <b>attachmen</b> <b>ts</b> for
	<ol> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box.</li> <li>When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> </ol>	features.
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.	
	<ul> <li>Click download the file.</li> <li>Click delete the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks
Add and view	A work item can be associated with other types of work items in a project.	You must have
related item	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permission to <b>create</b> /
	□ Details	associate/ <sup>y</sup> dissociate child
	> Subrequirement(11)	features, create/ associate/
	> Associate Work Item(0)   + Task @ Associate Task	dissociate
	> Files (0) 🖉 Associate	requireme nts,
	> Wiki(0)   Ø Associate	create/ associate/ dissociate
	> Test Case(0)	work items,
	2. Complete association.	associate/
	<ul> <li>Subrequirement: Child requirements of the current feature.</li> <li>Click Break Down to add child requirements.</li> </ul>	dissociate files, and associate/
	A maximum of 10 child requirements can be created at a time. One child requirement is displayed by default and cannot be deleted. Click I to expand and configure more information.	dissociate wikis for features.
	After the child requirements are created, you can check and edit them on the <b>R&amp;D</b> <b>Requirements</b> tab.	
	Click <b>Associate</b> to add existing requirements as child requirements.	
	You can add multiple ones at a time.	
	<ul> <li>Associate Work Item: associated work items of other types in the project. Tasks can be associated.</li> </ul>	
	• <b>Files</b> : files corresponding to the feature. Select a file associated with the current feature. You can upload a local file.	
	• Wiki: wikis corresponding to the feature. Select a wiki associated with the feature. You can also create a wiki.	
	• <b>Test Case</b> : test cases corresponding to the system feature. You can associate system features with test cases in CodeArts TestPlan. The associated cases will be displayed here.	

Operatio n	Procedure	Remarks
Check review	You can check the review records related to system features only in the following situations:	You must have
record	<ul> <li>When a system feature is added to a baseline review, the baseline review process is triggered. Then you can check the review record on the <b>Review</b> tab of the system feature details page.</li> </ul>	permission to <b>view</b> features.
	• When a locked field of a baselined system feature is modified, the change process is automatically triggered. Then you can check the review record on the <b>Review</b> tab of the system feature details page.	
	• When a system feature has a general review record, you can check the record on the <b>Review</b> tab of the system feature details page.	
Add workload	<ol> <li>Go to the work item details page, and click the Workload tab.</li> </ol>	You must have
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>
	3. Enter the workload information.	person- hours for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	features. Workloads
	• Decide whether to select <b>Weekends included</b> . If not, weekend workload records will not be generated.	can be edited and deleted by
	• You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b> .	the creator.
	• Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.	By default, the project administrat or can edit and delete all
	<ol> <li>Click <b>OK</b>. The system automatically generates corresponding records based on the entered dates and days.</li> </ol>	workloads.
	The workload can be edited and deleted.	
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload addition.	You must have permission
	1. Go to the work item details page.	to <b>view</b>
	2. Click the <b>History</b> tab.	features.
	<ul> <li>Click I or T to check historical records in the ascending or descending order of operation time.</li> </ul>	
	<ul> <li>You can set search criteria to query matching historical records.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> </ol>	You must have permission
	<ol><li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li></ol>	to <b>edit</b> features.
	<ol> <li>Click <b>OK</b>.</li> <li>The new tag is displayed next to the requirement ID in the feature list.</li> </ol>	
	4. (Optional) Hide a tag.	
	<ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul>	
	Tag 🕂 🍕 🖓 Break Down Subrequ	
	Q Enter a keyword.	
	Plann • xuqiu1 🗸	
	+ Create Tag	
	<ul> <li>Move the cursor to the tag name and click I to hide the tag.</li> </ul>	
	Tag + •xuqiu1	
	• xuqiu1	
	NOTE If you need to add tags for multiple system features, select the desired system features, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the Details tab page, click the Comments text box.         comments         All ≠ JF     </li> <li>If a comment Use @ to notly others</li> </ol>	You must have permission to <b>view</b> features.
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> <li>Click <b>Submit</b>. Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 6.5 Configuring Project Plans

Generally, multiple milestones and release versions are set in project management based on the delivery plan. Each release version can be completed through multiple sprints to deliver project achievements better. R&D requirements, tasks, and bugs of a project can be planned in the release and sprint plans to deliver achievements in an orderly and timely manner, which keeps the project progress under control and manages the allocation of project members.

## **NOTE**

- Type M (M): Milestone.
- Type R ( R): Release plan.
- Type S (S): Sprint plan.

# Prerequisites

An IPD-system device project is available, and you have permission to **create plans** for the project.

# **Creating Milestones**

Step 1 Access the CodeArts Req homepage.

Step 2 On the project homepage, select Plans.

**Step 3** Click **Plan** and select **Milestone**. In the **Create Milestone** dialog box, set the required parameters.

Parameter	Description
Name	Name of a milestone. The value can contain a maximum of 30 characters.
	Names of milestones under the same project must be unique.
Completes	Planned completion time of a milestone, which can be selected based on the actual project situation.
Owner	Current owner of a milestone.

#### Step 4 Click OK.

The new milestone is displayed in the plan management list.

----End

#### **Creating Release and Sprint Plans**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, select **Plans**.
- Step 3 Click Plan, select Release Plan, and set the parameters.

#### Table 6-19 Creating a release plan

Parameter	Description
Release Name	Name of a release plan. The value can contain a maximum of 30 characters.
	Names of release plans under the same project must be unique.
Owner	Owner of a release plan.
Start/End	Start time and end time of a release plan.
Time	The end time cannot be earlier than the planned start time.
Planned Capacity (person-day)	Estimated plan workload within the release plan time range. The value can be accurate to one decimal place.
Description	Enter release information based on actual conditions. A maximum of 1,000 characters can be entered.

#### Step 4 Click OK.

The new release is displayed in the plan management list.

By default, a new release plan is in the **Planned** state. You can manually update the release plan status:

- **Planned**: Click **Start Release** to change the state to **Going**.
- Going: Click Set to not yet started to change the state to Planned, or click Complete to change the state to Ended.
- Ended: Click Restart to change the state to Going.

**NOTE** 

New sprint plans cannot be added for completed release plans.

**Step 5** Click + in the row where the release for which you want to add a sprint is located. The **Create Sprint** window is displayed.

**Step 6** Set the sprint plan information.

- The names of sprint plans under the same release should be unique.
- The **Start/End Time** of a sprint plan can be selected only from the **Start/End Time** of the release to which the sprint plan belongs.
- Step 7 Click OK.

You can view the new sprint plan under the release to which the sprint plan belongs.

By default, a new sprint plan is in the **Planned** state. You can manually update the sprint plan status:

- Planned: Click Start Iteration to change the state to Going.
- **Going**: Click **Reset** to change the state to **Planned**, or click **Complete** to change the state to **Ended**.
- Ended: Click Restart Iteration to change the state to Going.

----End

#### **Related Operations**

You can perform the following operations on new milestones, release plans, and sprint plans.

Operation	Description
Edit release/ sprint plans	Click $\checkmark$ in the <b>Operation</b> column of the release or sprint plan to edit it.
	<b>NOTE</b> Baselined release and sprint plans cannot be edited.

Table 6-20 Operations related to plan management

Operation	Description	
Baseline release/ sprint plans	<ul> <li>Choose *** &gt; Baseline in the Operation column of the release or sprint plan.</li> <li>NOTE <ul> <li>After a release plan is baselined, the R&amp;D requirements (IRs) under the release are also baselined.</li> <li>After a sprint plan is baselined, the R&amp;D requirements (IPD-system device: SRs and ARs; IPD-standalone software: USs) under the sprint are also baselined.</li> </ul> </li> </ul>	
Cancel baselined release/ sprint plans	<ul> <li>Only the baseline of a release or sprint plan can be canceled.</li> <li>Choose *** &gt; Unbaseline in the Operation column of a baselined release or sprint plan.</li> <li>NOTE <ul> <li>After the release plan is unbaselined, the R&amp;D requirements (IRs) under the release are also unbaselined.</li> <li>After a sprint plan is unbaselined, the R&amp;D requirements (IPD-system device: SRs and ARs; IPD-standalone software: USs) under the sprint are also unbaselined.</li> </ul> </li> </ul>	
View history of release or sprint plans	Choose <b>History</b> in the <b>Operation</b> column of a release/ sprint plan. Then view the historical records of the release plan/ sprint plan on the displayed page.	
Delete release/ sprint plans	<ul> <li>Click Delete under *** in the Operation column of the release or sprint plan. In the displayed dialog box, click OK.</li> <li>NOTE</li> <li>Baselined release and sprint plans cannot be deleted.</li> <li>Once you delete release and sprint plans, they are permanently deleted and cannot be restored.</li> </ul>	
Edit milestone	Click 🖉 in the <b>Operation</b> column of a milestone to edit it.	
Delete milestone	Click in the <b>Operation</b> column of a milestone to delete it. <b>NOTE</b> Once you delete milestones, they are permanently deleted and cannot be restored.	

Operation	Description
Batch operations	Select the check boxes on the left of the plans to manage the plan data in batches.
	Baseline: You can baseline multiple release or sprint plans separately.
	Cancel baseline: You can cancel multiple baselined release or sprint plans separately.
	Export: You can export selected data in batches.
	Delete: You can delete selected data in batches.
	<b>NOTE</b> Once you delete plans, they are permanently deleted and cannot be restored.

## **Arranging Release and Sprint Plans**

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, select Plans.
- **Step 3** Click the title of a release or sprint plan to go to the details page.

The plan's basic information, work item scope, and statistics are displayed. You can arrange the plan and change its status.

#### Figure 6-52 Plan details page

← R RRPF	Comp      Comp     Comp      Comp      Comp      Co	Plan release scope	Complete	
Release Range	Release Statistics			
Unfinished -	Q Status Analyzing IInitial   Acceptin × Category: IR   SR   AR   Task   Bog Add ITters.	I×□≡ E	88 📹 …	
TIDe @	T Status O T Priority O T Release T Severity O T Collaboration Status Owner T	Responsi 🔘 Days	Operation 📀	
	No data available.			
	Come and release the release scope quickly! Pain release scope			

Step 4 Click Plan release scope.

**NOTE** 

The release scope of baselined or completed release plans cannot be changed.

**Step 5** Select the work items to be added to the current release plan, and click **OK**.

**NOTE** 

This procedure uses a release plan as an example. Sprint plans can be configured in the same way.

----End

# Checking Statistics of Release and Sprint Plans

- **Step 1** On the project homepage, select **Plans**.
- **Step 2** Click the title of a release or sprint plan to go to the details page, and click **Statistics**.

#### Figure 6-53 Plan details page - Statistics

←	Plan release scope () Competer · · · · Actual load planned capacity (personidary): () 0.0- Description: -
	Image: Structure     Image: Structure
0.2 <sup>0</sup> 2)242 <del>014 2021-00-10</del> 2022-00-10 2022-00-20 2022-00-22 (2022-09-34 2022-09-36	0.2

The following types of charts are supported.

Table 6-21	Release	charts
------------	---------	--------

Chart Name	Data Description
Work item overview	Counts the total, processing, completed, and overdue work items of each type in the current release.
Burndown chart	Uses a line chart to display the daily trend of changes in the number and planned workloads of all work items in the current release.
	<ul> <li>Total workload: The system runs a scheduled task daily to calculate the total workloads (planned workloads and work items) of all work items in the current release.</li> </ul>
	<ul> <li>Left workload: The system runs a scheduled task daily to calculate the workloads (planned workloads and work items) of all uncompleted work items in the current release.</li> </ul>
	• Expected line: The line connecting the total workload from the first day to the last day. The total workload of the last day is 0 person-days.
	This chart helps you identity risks in the release progress.
Release load capacity	Uses a grouped column chart to compare the planned and release workloads of each work item type in the current release. This chart helps you check whether the actual workloads exceed the planned ones.

Chart Name	Data Description
Bug trend	Uses a line chart to display the numbers of daily discovered and resolved bugs as well as the remaining defect index (DI). This chart helps you understand the bug trend in the current release.
Work items by priority	Uses a grouped column chart to display the numbers of different work item types under each member by priority. This chart helps you understand the priorities of work items under each member.
Work item completion	Uses a line chart to display the numbers of completed and total work items of each type in the current release. This chart helps you learn about the release's daily completion status.
Work items by status	Uses a ring chart to display the number and proportion of work items of each type in different statuses under the current release. This chart helps you learn about the release's work items in different statuses.
Work item breakdown	Uses a column chart to display the numbers of broken-down and total work items of each type under the current release. This chart helps you learn about the work item breakdown progress of the current release.
Work item completion rate	Uses a column chart to display the numbers of completed and total work items of each type in the current release. This chart helps you learn about the release's completion status by work item or planned workload.
Work item stay days	Uses a column chart to display the average number of days that work items of each type stay in each status (except for a <b>Done</b> status) in the current release. This chart helps you identify the delivery bottlenecks in your team.
Work item statistics for project members (by status)	Uses a grouped column chart to display the numbers of different work item types in different statuses under each member. This chart helps you learn about the work item progress of each member.
Unfinished work items by member	Uses a grouped column chart to display the number of uncompleted work items of each member under the current release. This chart helps you check whether the work item assignment of each member is appropriate.
Requirement TTM	Uses a column chart to display the average time that each requirement type takes to complete since it is created or submitted. This chart helps you understand the delivery rate of each work item type.

#### D NOTE

The description uses a release plan as an example. Sprint plans have the same statistical charts.

----End

# 6.6 Creating and Managing R&D Requirements

# 6.6.1 R&D Requirement Status Transition Process

The lifecycle of an R&D requirement consists of the **Initial**, **Analyzing**, **Developing**, **Testing**, and **Completed** states. **Figure 6-54** shows the complete status transition process.

Figure 6-54 R&D requirement status transition flowchart

	Initial 🙃	Analyzing	Developing	Testing	Compl 🙃
● ● ● Save → ●	No configuration	No configuration	<ul> <li>No configuration</li> </ul>	No configuration	No configuration
	1	 1	 1	 1	 1
	Any status	Any status	Any status	Any status	Any status

Table 6-22 describes the operations in each status.

Table 6-22	Operation description
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Status	Description
Initial	When an R&D requirement is created, the state is <b>Initial</b> by default.
Analyzin g	After the R&D requirement in the <b>Initial</b> state is handled, the state changes to <b>Analyzing</b> .
Develop ing	After the R&D requirement is analyzed, the state changes to <b>Developing</b> .
Testing	After the R&D requirement is developed, the state changes to <b>Testing</b> .
Complet ed	After the R&D requirement passes the test, the state changes to <b>Completed</b> .

# 6.6.2 Creating R&D Requirements

R&D requirements are delivered in a project's product iterations (PIs) and sprints. These requirements can be associated with raw requirements and system features.

#### Prerequisites

An IPD-system device project is available, and you have permission to **create and duplicate R&D requirements** for the project.

## Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **R&D Requirements**.
- **Step 3** Click **IR**. On the **IR** page, set the required parameters.

Table 6-23 Creating an IR

Paramet er	Description
Tag	When creating or editing a work item, you can add a customized tag.
	Tag names can be marked in different colors.
Title	Title of a work item.
Descriptio n	Enter the background, value, and details of the R&D requirement based on actual conditions.
	The description can include texts, images, or links.
Attachme nt	A maximum of 100 attachments can be added to an R&D requirement, and the total capacity is 50 MB.
Responsib le Project	Project that the R&D requirement belongs to. The value cannot be changed.
Raised By	The member who proposes the requirement. Multiple proposers can be specified.
Owner	The member who is responsible for this requirement. Only one person can be specified.
Priority	Priority of an R&D requirement, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Release	Release plan version of the R&D requirement.
	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	This parameter can be left empty. You can create a release plan and then associate it with the release plan.
Sprint	Next level of the release plan.
	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	The parameter value can be empty. You can create a sprint and then associate it with the sprint.
Planned Start	Planned start time of a requirement. The date format is <b>yyyy-mm-</b> <b>dd</b> .

Paramet er	Description					
Planned Completi	Planned completion time of a requirement. The date format is <b>yyyy-mm-dd</b> .					
on	The planned completion time cannot be earlier than the planned start time.					
Planned Workload	Estimated workload from the planned start time to the planned completion time for this requirement.					
Domain	Includes software, hardware, software and hardware, functions, and performance.					
Breakdow n Required	Whether it is necessary to break down this requirement into smaller units.					
Reason for Non-	This parameter is displayed only when <b>Breakdown Required</b> is set to <b>No</b> .					
Breakdow n	State the true conditions of the project.					
Сору То	Project members to whom the IR is copied. After the copy is complete, the people selected for <b>Copy To</b> will receive a message.					

**Step 4** Click **OK**. The R&D requirement page is displayed, and "IR created." is displayed in the upper right corner.

The new requirement is displayed in the R&D requirement list, and the requirement state is **Initial**.

#### Figure 6-55 R&D requirement list

AI +	Q Status: Analyzing   Initial   Developi × Add filters.						×	
	🕂 Title 🔘 🍸	Status 🕒 🍸	Priority 🕒 🍸	Release-S T	Collaboration Status	Owner T	Days 🕒 🍸	Planne
		Completed	• Medium			hwstaff_p	1 day	-

#### **NOTE**

After an R&D requirement is created, the people selected for **Owner**, **Raised By**, and **Copy To** will receive email and direct messages. If not, set notifications or modify notification settings. For details, see **Configuring Notification Rules**.

----End

#### **Related Operations**

You can perform the following operations on a new R&D requirement.

Operation	Description
Modify R&D requirement title	Click 🖉 next to an R&D requirement title to modify it.
Modify R&D requirement field	Click the target field value in the row of an R&D requirement to modify the value.
Create child requirement	Click <sup>C</sup> in the <b>Operation</b> column of an R&D requirement to break it down into child requirements.
	• In the <b>Break Down Subrequirements</b> dialog box, click <b>Add</b> <b>Subrequirement</b> to create a child requirement. A maximum of 10 child requirements can be created at a time.
View R&D requirement association map	Click <sup>3</sup> in the <b>Operation</b> column of an R&D requirement to view all data of its related items.
Duplicate R&D requirement	Click $\textcircled{III}$ in the <b>Operation</b> column. This process is the same as that of creating an R&D requirement.
Delete R&D requirement	<ul> <li>Click in the Operation column.</li> <li>NOTE <ul> <li>R&amp;D requirements in change or baseline review cannot be deleted.</li> <li>Once deleted, an R&amp;D requirement is moved to the recycle bin. R&amp;D requirements in the recycle bin can be restored or permanently deleted. After an R&amp;D requirement is restored from the recycle bin, it restores to the original status.</li> </ul> </li> </ul>
Copy R&D requirement link	Choose *** > <b>Copy Link</b> in the <b>Operation</b> column of an R&D requirement to copy its title, ID, owner, status, and link to the clipboard.
Migrate R&D requirement	<ul> <li>Choose &gt; Migrate in the Operation column of an R&amp;D requirement to migrate it to other projects.</li> <li>NOTE <ul> <li>R&amp;D requirements that have been baselined, completed, or are currently under baseline review or change review cannot be migrated.</li> <li>Batch migration is based on the selected top-level requirement type. IRs are migrated across projects and non-IRs within a project.</li> <li>Requirements are migrated together with their child requirements.</li> <li>After an R&amp;D requirement is migrated to another project, the system automatically removes its tags, actual workloads, related items (except for collaborative requirements), and PI, and only keeps the fields of the same type as the existing work items. The associated work items are automatically canceled.</li> </ul> </li> </ul>

Table 6-24 Basic operations on an	R&D requirement
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# 6.6.3 Managing R&D Requirements

After creating an R&D requirement (see **Procedure**), you can perform the operations described in this section on it.

# On the R&D Requirements List Page

Go to the project homepage, choose **Work > Req > R&D Requirements**, and perform the following operations.

Figure 6-56 R&D requirement list

Homepage / IPD- 1 Free	Tital / Work									
Raw Requirements Feature Tree	R&D Requirements	Tasks Defects	Review Statis	ics Plans					🙂 Feed	Iback 🗊 Recycle Bin
+ IR All • Q Add fil	ters.								Collaboratio	n Requirements
🗌 🕀 Title 🔘 🍸			Status 🕒 🕇	Priority 🕒 🍸	Release-S	Collaboration Status	Owner T	Days 🕒 🝸	Planned Start 🕘 🍸	Operation 🔅
RR-IPD111	13		Completed	• Medium		-	hwstaff_p	0 day	-	e % …
IR2024091872055	9		Initial	Medium		-	hwstaff_p	0 day	-	e % ···
hjfghdhdfhdfd IR2024091472110			Analyzing	Medium			hwstaff_p	2 days		C 46 ···
iR2024091472012			Analyzing	Medium		-	hwstaff_p	2 days	-	c % …
								20 V / Page	e, Total Records: 4 🛛 🤇	> Go To 1

Table 6-25	Management o	perations in the	R&D requirement list
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Operatio n	Procedure
Search for R&D requirem ent	<ul> <li>By adding filters</li> <li>Click the search box in the R&amp;D requirement list and select one or more filters to search for R&amp;D requirements.</li> <li>To clear all filters and display all data, click × on the right of the search bar.</li> <li>By using a saved view</li> <li>Click the search box in the R&amp;D requirement list and select one or more filters.</li> <li>Click the search box in the R&amp;D requirement list and select one or more filters.</li> <li>Click I on the rightmost of the search bar, and enter a view name.</li> <li>Click OK. The created view is displayed next to the IR button.</li> <li>Select the created view to query the R&amp;D requirements that</li> </ul>
	<ul> <li>A. Select the created view to query the R&amp;D requirements that meet the search criteria.</li> <li>Views can be shared with others, modified, and deleted.</li> </ul>

Operatio n	Procedure
Collabora te on R&D	You can assign R&D requirements to other projects for collaborative management.
requirem	<b>NOTE</b> Completed R&D requirements cannot be collaborated.
ent	<ol> <li>In the R&amp;D requirement list, select the requirements to be collaborated.</li> </ol>
	• Select the check boxes of the requirements to be collaborated and click <b>Deliver</b> in the lower part of the page. You can select one or more requirements.
	• Go to the details page of the requirement to be collaborated,
	click *** in the upper right corner, and select <b>Deliver</b> .
	<ol> <li>Select a downstream project in the displayed dialog box. If there is no option in the drop-down list box, perform the following operations to add one:</li> </ol>
	<ul> <li>a. Choose Configure downstream project. The Downstream Projects page is displayed.</li> </ul>
	<ul> <li>b. Click Add Downstream Project. The Add Downstream Project window is displayed.</li> </ul>
	c. Select a desired project.
	d. Click <b>Add</b> .
	3. Click <b>Next</b> . The <b>Deliver</b> dialog box is displayed.
	<ol> <li>Set the recipient in <b>To</b> and the expected receiving time in <b>Expected Received</b>.</li> </ol>
	<ol> <li>Click OK. In the R&amp;D requirement list, the Collaboration Status of the collaborative requirement is Assign.</li> </ol>
	<b>NOTE</b> Different colors of <b>Assign</b> indicate different meanings.
	Assign : If the current requirement has some downstream requirements that are pending receival, the color of <b>Assign</b> is orange.
	Assign : After all downstream requirements under the current requirement are received, the color of <b>Assign</b> turns green.
	Assign : If the current requirement has some downstream requirements turned back, the color of <b>Assign</b> turns red.

Operatio n	Procedure
Receive collaborat	Perform this operation when another project assigns an R&D requirement to your project.
ive R&D requirem ent	1. In the R&D requirement list, click <b>Collaboration Requirements</b> on the right of the search bar. The <b>Collaboration Requirements</b> page is displayed.
	2. Click <b>Received</b> . The requirements to be received are displayed.
	3. Click 🛱 next to the requirement to be received. The <b>Receive Collaboration Requirement</b> dialog box is displayed.
	<ul> <li>Click and enter the rejection reason to reject the requirement.</li> </ul>
	<ul> <li>Click <sup>A</sup> to transfer the requirement to another person.</li> </ul>
	<ul> <li>Click Export All to export the requirement data to an Excel file.</li> </ul>
	4. Select Mode and Requirement Type according to the actual situation of the project, and modify Requirement Title. When Mode is set to Associate, you only need to select Associated Requirement. The options of Associated Requirement include all R&D requirements created in the project.
	5. Click <b>OK</b> .
	The state of the received requirement changes to <b>Received</b> . <b>NOTE</b>
	<ul> <li>Click  to assign the requirement to other projects.</li> </ul>
	<ul> <li>Click S to reject the received requirement. After the requirement is rejected, the requirement state changes to <b>Receiving</b>.</li> </ul>
	<ol> <li>Click X in the upper right corner of the page to close the Collaboration Requirements page.</li> </ol>
	<ul> <li>When Mode is set to Copy, the received requirement information is displayed in the R&amp;D requirement list, and the copied requirement information can be viewed in Related Items &gt; Related Upstream Requirements of the requirement details.</li> </ul>
	• When <b>Mode</b> is set to <b>Associate</b> , the <b>Collaboration Status</b> of the associated requirement is <b>Received</b> . You can view the received requirements in <b>Related Items &gt; Related Upstream Requirements</b> of the requirement details.

Operatio n	Procedure
Import	Use the provided template to import requirements in batches.
work items	1. In the R&D requirement list, click <sup>•••</sup> on the right of the search bar and select <b>Import</b> .
	<ul> <li>In the displayed dialog box, click Download Template. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, R&amp;D Requirement) + Template.</li> </ul>
	<ol> <li>Fill in the fields on the IR - Requirements sheet.</li> <li>For details about how to set parameters, see the IR - Import Rules sheet in the template file.</li> </ol>
	4. Drag or click $\square$ to select a file to be imported.
	5. Click <b>Import</b> . The import progress dialog box is displayed.
	<ul> <li>After the import is successful, you can view the imported requirement information in the R&amp;D requirement list.</li> </ul>
	<ul> <li>If the import fails, a message is displayed in the upper right corner of the page. Click View Failure Details in the message to view the failure details. You can modify the requirement information based on the details and import the template again.</li> <li>NOTE         For details about operations on import records, see Viewing Work Item Import/Export Records.     </li> </ul>
Export	Export requirements in batches to an Excel file.
work	1. Export some or all R&D requirements.
items	• Export all: On the <b>R&amp;D Requirements</b> page, click … on the right of the search bar and choose <b>Export</b> . The <b>Select Fields to Export</b> dialog box is displayed.
	• Export some: In the R&D requirement list, select one or more R&D requirements to be exported and click <b>Export</b> at the bottom of the page. The <b>Select Fields to Export</b> dialog box is displayed.
	2. Select the fields to be exported and determine whether to expor child requirements.
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the R&amp;D requirements are exported, the R&amp;D requirement file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.

Operatio n	Procedure		
Configure fields to display	<ul> <li>Click A next to the <b>Operation</b> field.</li> <li>On the left of the pop-up box, select the fields to be displayed.</li> <li>On the right of the pop-up box, drag the fields in the <b>Selected</b> area to adjust the display sequence.</li> </ul>		
Migrate R&D requirem	You can migrate R&D requirements to another project. After the migration, the requirements do not need to be processed in the current project.		
ents in batches	Requirements that have been baselined, are undergoing baseline review, or are being changed cannot be migrated.		
	<ol> <li>In the R&amp;D requirement list, select one or more R&amp;D requirements to be migrated and click <b>Migrate</b> in the lower part of the page.</li> </ol>		
	2. In the displayed dialog box, select the project to migrate the requirements to.		
	3. Click <b>Next</b> . The migration confirmation dialog box is displayed.		
	Figure 6-57 Migrating R&D requirements		
	Title         No.         Migration Project         Owner           Image: Massachukass-RR         IR20240913717589         IPD-:		
	4. Select <b>Owner</b> .		
	5. Click <b>OK</b> . The migration is successful. The migrated requirements no longer appear in the R&D requirements list. The state of these requirements in the target project is <b>Initial</b> .		

# On the R&D Requirement Details Page

On the details page of an R&D requirement, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

igure o so has requirement actuals page	•		
R20240913717589 created at Sep 13, 2024 16:55:41 GMT+08:00 Tag +			<sub>2</sub> <sup>2</sup> ×
IR] kkkkkkkk-RR			
Initial Analyzing Developing	Testing	1	Completed
🖹 Details 🖉 Attachment 2 🖉 Related Items 1 🔒 Review 🔿 Workload 🔿 History			
. Description	🖉 Edit	* Status	Initial
[ ]	0	* Raised By	
		* Owner	
		Priority	• Medium
		Release	Select
		Planned Start	Select
		Planned Com	2024/09/15
		Planned Dev	-Select-
Comments	All 👻 JF	Planned Test	-Select-
Enter a comment. Use @ to notify others.		Planned 🔘	5.0 person-day
		Sum Actu 🔘	
		Domain	Software
		Network Sec	No
		Breakdow 🛞	Yes
		Сору То	Select

Figure 6-58 R&D requirement details page

<b>Table 6-26</b> Management operations on the details page
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Operatio n	Procedure	Remarks
Edit work item	On the R&D requirement details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop- down list. The changes are saved automatically.	You must have permission to <b>edit</b> R&D requiremen ts.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 6-22</b> .	You must have permission to <b>set</b> <b>statuses</b> for R&D requiremen ts.
Baseline R&D requirem ent	<ol> <li>Go to the work item details page, and choose ***         <ul> <li>Baseline. The Baseline dialog box is displayed.</li> </ul> </li> <li>Click OK.         <ul> <li>The IR icon is displayed on the left of the R&amp;D requirement title.</li> </ul> </li> <li>NOTE         <ul> <li>The baseline of an R&amp;D requirement can be canceled.</li> </ul> </li> </ol>	You must have permission to <b>baseline</b> R&D requiremen ts.

Operatio n	Procedure	Remarks	
Initiate baseline review	<ol> <li>Go to the work item details page, and choose         <ul> <li>Baseline Review. The BR page is displayed.</li> </ul> </li> <li>Enter BR information.             By default, the Baseline Object is the R&amp;D             requirement for which the baseline review is             initiated.</li> <li>Click Submit. The Review page is displayed.</li> </ol>	You must have permission to <b>view</b> R&D requiremen ts.	
	<ul> <li>Choose Review &gt; Baseline Review to check the new baseline review.</li> <li>4. Switch to the R&amp;D Requirements page. The icon of the R&amp;D requirement that is under baseline review is displayed as .</li> <li>NOTE Track the progress of the baseline review. The R&amp;D requirement can be baselined only when the baseline review status changes to Approved. </li> </ul>		
Initiate change review	<ul> <li>The change process can be initiated only for baselined and uncompleted R&amp;D requirements.</li> <li>1. Go to the details page of a baselined work item, and choose &gt; Change Review. The CR page is displayed.</li> <li>2. Enter CR information.</li> <li>Change Object: By default, it is the R&amp;D</li> </ul>	You must have permission to <b>view</b> R&D requiremen ts.	
	<ul> <li>requirement to be changed.</li> <li>Collaborative Parent Item Change: Only existing CRs can be added.</li> <li>Click Submit. The Review page is displayed. Choose Review &gt; Change Review to check the new CR in the change process. The CR state is Pending review by default.</li> <li>NOTE         Track the progress of the change review. Only when the state is Approved, which means that the change review has been processed, will the changed content display in the corresponding R&amp;D requirement.     </li> </ul>		

Operatio n	Procedure	Remarks
Upload attachme nt	<ul> <li>Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.</li> <li>1. Go to the work item details page, and click the Attachment tab.</li> <li>2. Click the box to select a local file or drag the file here to upload it as an attachment for the work item. Local files can be directly dragged to the text box. When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully. Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.</li> </ul>	You must have permission to <b>upload</b> <b>attachmen</b> <b>ts</b> for R&D requiremen ts.
	<ul> <li>Click download the file.</li> <li>Click download the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks				
Add and view	A work item can be associated with other types of work items in a project.	You must have				
related item	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permission to <b>deliver</b> / <b>cancel</b>				
	Figure 6-59 Related items	assignmer t, create/				
	Details @ Attachment 0 @ Related Items 1 & Review O Workload O History	delete child requireme				
	> Parent Requirements(1)	nts, associate/				
	> Feature(0)	dissociate work items,				
	> Subrequirement(0) C C Break Down	associate/ dissociate				
	> Related Upstream Requirements(0)	files, and				
	> Related Downstream Requirements(0)   E Deliver	associate/ dissociate wikis for				
	> Associate Work Item(0)   + Task @ Existing	R&D requireme				
	> Files (0)   Ø Associate	ts.				
	> Wiki(0)   🖉 Associate					
	> Test Case(0) 🚳					
	> Code Commit Record(0) 🛞					
	> Code Branch(0)					
	2. Complete association.					
	<ul> <li>a. Parent Requirements: parent requirements to which an R&amp;D requirement belongs. The information about an RR is displayed in the Parent Requirements area only when the IR is associated with the RR.</li> </ul>					
	<ul> <li>b. Feature: features to which an R&amp;D requirement belongs.</li> <li>Only when an IR is associated with a feature will the information about the feature be displayed in the Feature area.</li> </ul>					
	<ul> <li>c. Subrequirement: SRs of a child requirement in the current R&amp;D requirement.</li> <li>A maximum of 10 child requirements can be created at a time. One child requirement is displayed by default and cannot be deleted.</li> </ul>					

Operatio n	Procedure	Remarks
	1. Click <b>Break Down</b> . The <b>Break Down</b> <b>Subrequirements</b> window is displayed.	
	2. Configure child requirements. Click 💷 to expand and configure more information.	
	<ol> <li>Click <b>OK</b>. The child requirements are automatically displayed under the parent R&amp;D requirement.</li> </ol>	
	<ul> <li>Related Upstream Requirements: requirements assigned by other projects to your project.</li> </ul>	
	<ul> <li>e. Related Downstream Requirements: requirements assigned to downstream projects.</li> <li>1. Click Deliver. The Deliver window is displayed.</li> </ul>	
	2. In the dialog box that is displayed, set <b>Select</b> <b>Downstream Project</b> , <b>To</b> , and <b>Expected</b> <b>Received</b> .	
	NOTE If there is no option in the drop-down list box, perform the following operations to add one:	
	<ol> <li>Choose Configure downstream project. The R&amp;D Downstream Projects page is displayed.</li> </ol>	
	2. Click Add Downstream Project.	
	3. Select a desired project.	
	4. Click Add.	
	3. Click <b>OK</b> .	
	In the R&D requirement list, the <b>Collaboration</b> <b>Status</b> of the collaborative requirement is <b>Assign</b> .	
	<ul> <li>f. Associate Work Item: associated work items of other types in the project. Tasks can be associated.</li> </ul>	
	<ul> <li>g. Files: files corresponding to the R&amp;D</li> <li>requirement.</li> <li>Select a file associated with the current</li> <li>requirement. You can upload a local file.</li> </ul>	
	<ul> <li>Miki: wikis corresponding to the R&amp;D requirement.</li> <li>Select a wiki associated with the current requirement. You can create a wiki.</li> </ul>	
	i. <b>Test Case</b> : test cases corresponding to the R&D requirement. You can associate R&D requirements with test cases in CodeArts TestPlan. The associated cases will be displayed here.	

Operatio n	Procedure	Remarks		
	<ul> <li>j. Code Commit Record: indicates the code commit records corresponding to the R&amp;D requirement.</li> <li>Related information is displayed only when the current requirement is associated during code commit.</li> </ul>			
	<ul> <li>k. Code Branch: code branches corresponding to the R&amp;D requirement.</li> <li>Related information is displayed only when a code branch is associated with the current requirement.</li> </ul>			
Check review	You can check the review records related to requirements only in the following situations:	You must have		
record	<ul> <li>When an R&amp;D requirement is added to a baseline review, the baseline review process is triggered. Then you can check the review record on the <b>Review</b> tab of the R&amp;D requirement details page.</li> </ul>	permission to <b>view</b> R&D requiremen		
	• When a locked field of a baselined R&D requirement is modified, the change process is automatically triggered. Then you can check the review record on the <b>Review</b> tab of the R&D requirement details page.	ts.		
	<ul> <li>When an R&amp;D requirement has a general review record, you can check the record on the <b>Review</b> tab of the R&amp;D requirement details page.</li> </ul>			

Operatio n	Procedure	Remarks			
Add workload	<ol> <li>Go to the work item details page, and click the Workload tab.</li> </ol>	You must have			
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>			
	3. Enter the workload information.	person- hours for			
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	R&D requiremen			
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	ts. Workloads can be			
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	edited and deleted by			
	<ul> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul>	the creator. By default, the project administrat or can edit			
	<ol> <li>Click <b>OK</b>. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	and delete all workloads.			
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload addition.	You must have permission			
	1. Go to the work item details page.	to <b>view</b> R&D			
	2. Click the <b>History</b> tab.	requiremen			
	<ul> <li>Click I or T to check historical records in the ascending or descending order of operation time.</li> </ul>	ts.			
	<ul> <li>You can set search criteria to query matching historical records.</li> </ul>				

Operatio n	Procedure	Remarks
-	<ul> <li>Frocedure</li> <li>1. Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> <li>2. In the Create Tag dialog box, set Tag Name and select Tag Color.</li> <li>3. Click OK. The new tag is displayed next to the requirement ID in the R&amp;D requirement list.</li> <li>4. (Optional) Hide a tag. <ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul> </li> <li>Figure 6-60 Hiding a tag - 01 <ul> <li>Tag + <ul> <li>Requirement1</li> <li>Create Tag</li> </ul> </li> <li>6. Move the cursor to the tag name and click ≥ to hide the tag.</li> </ul> </li> <li>Figure 6-61 Hiding a tag - 02 <ul> <li>Tag + <ul> <li>Requirement1</li> <li>Create Tag</li> </ul> </li> </ul></li></ul>	You must have permission to <b>edit</b> R&D requiremen ts.
	<b>NOTE</b> If you need to add tags for multiple R&D requirements, select the desired R&D requirements, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the <b>Details</b> tab page, click the <b>Comments</b> text box.</li> <li>Figure 6-62 Add comment</li> </ol>	You must have permission to <b>view</b> R&D requiremen
	Comments       All ▼ 17	ts.
	Sutimit Cancel	
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> </ol>	
	<ol> <li>Click Submit. Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 6.7 Creating and Managing Tasks

# 6.7.1 Task Status Transition Process

The entire lifecycle of a task consists of the **Initial**, **Processing**, and **Completed** states. **Figure 6-63** shows the complete status transition process.

7	0	5		ċ						1	nitia	d ć	อ							1	Pro	ces	sir	ıg							Co	mp	ol	G	5
5	9	2	•- / .		5 S	ave	•	-	•	1	No co	nfig	jura	tion						ľ	10 0	onfi	gura	atior					ľ	2	No	con	figu	ratio	n
											. 1											<b>†</b>										1			
											÷	0										۲										۲			
											Any s	tati	JS								Апу	stat	us								An	y st	atus		

Figure 6-63 Task status transition flowchart

 Table 6-27 describes the operations in each status.

Status	Description
Initial	When a task is created, the state is <b>Initial</b> by default.
Processing	After the task in the <b>Initial</b> state is processed, the state changes to <b>Processing</b> .
Completed	After the task is processed, the state changes to <b>Completed</b> .

Table 6-27 Operation description

# 6.7.2 Creating Tasks

Tasks are activities with a certain goal. They can be associated with raw requirements, features, and R&D requirements.

## Prerequisites

An IPD-system device project is available, and you have permission to **create and duplicate tasks** for the project.

## **Creating Tasks**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Tasks**.
- Step 3 Click Create Task. The Task page is displayed.
- **Step 4** Fill in the basic task information.

### Table 6-28 Creating a task

Paramete r	Description
Tag	When creating or editing a work item, you can add a customized tag. Tag names can be marked in different colors.
Title	Title of a work item.
Descriptio n	Enter the background, value, and details of the task based on project requirements. The description can include texts, images, or links.
Attachme nt	A maximum of 100 attachments can be added to a task, and the total capacity is 50 MB.
Responsib le Project	Project that the task belongs to. The value cannot be changed.

Paramete r	Description
Owner	Member who is responsible for this task. Only one person can be specified.
Module	Module to which a task belongs.
Priority	Priority of a task, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Release	Release to which a task belongs. The parameter value can be empty. You can create a PI and then associate it with the PI.
Sprint	The next level of PI. The parameter value can be empty. You can create a sprint and then associate it with the sprint.
Planned Start	Planned start time of a task. The date format is <b>yyyy-mm-dd</b> .
Planned Completio n	Planned completion time of a task. The date format is <b>yyyy-mm-</b> <b>dd</b> . The planned completion time cannot be earlier than the planned start time.
Planned Workload	Estimated workload from the planned start time to the planned completion time for this task.
Сору То	Project members to whom the task is copied. After the copy is complete, the people selected for <b>Copy To</b> will receive a message.

**Step 5** Click **OK**. The **Tasks** tab page is displayed, and a message is displayed in the upper right corner, indicating that the task is created successfully.

The new task is displayed in the task list, and the task state is Initial.

Figu	re 6-6	4 Task list	
+ Tack	I Infinished •	Statue Initial I Pronoscion V Add Ellars	

+ Task	Unfinished   Q Status Initial   Processing × Add filters.							XCE
08	Title 🛛 🍸	Status 🕘 🍸	Priority 🕘 🍸	Owner T	Release-S T	Planned Start 🕘 🍸	Planned Completion 🕘 🍸	Operation
	Taski afsdfsgsd TASK20240918721810	Initial	• Medium	hwstaff_p	••	-	-	(, ⊕ …

### **NOTE**

After a task is created, the people selected for **Owner** and **Copy To** will receive email and direct messages. If not, set notifications or modify notification settings. For details, see **Configuring Notification Rules**.

----End

## **Related Operations**

You can perform the following operations on a new task.

Operation	Description
Modify task title	Click 🖉 next to a task title to modify it.
Modify task field	Click the target field value in the row of a task to modify the value.
Create child task	Click $\overset{\mathbb{C}^{\circ}}{\leftarrow}$ in the <b>Operation</b> column of a task to break it down into child tasks.
	• In the Break Down Child Tasks dialog box, click Add child tasks to create a child task. A maximum of 10 child tasks can be created at a time.
View task association map	Choose *** > <b>Association Map</b> in the <b>Operation</b> column of a task to view all data of its related items.
Clone task	Click $\textcircled{\oplus}$ in the <b>Operation</b> column. This process is the same as that of creating a task.
Delete task	Choose *** > <b>Delete</b> in the <b>Operation</b> column of a task to delete it.
	<b>NOTE</b> Once deleted, a task is moved to the recycle bin. Tasks in the recycle bin can be restored or permanently deleted. After a task is restored from the recycle bin, it restores to the original status.

Table 6-29 Basic operations on a task

# 6.7.3 Managing Tasks

After creating a task (see **Creating Tasks**), you can perform the operations described in this section on it.

## On the Task List Page

On the project homepage, choose **Work > Req > Tasks**, and perform the following operations.

### Figure 6-65 Task list

Homepage / IPD-) 1 Free Trial / Work								
Raw Requirements Feature Tree R&D Requirements	Tasks Defects	Review Statistics	Plans				© Fee	edback 🗊 Recycle
+ Task All • Q Add filters.								
🗋 🕂 Title 🔘 🍸		Status 💿 🝸	Priority 🕘 T	Owner T	Release-S T	Planned Start 🕘 🝸	Planned Completion 💿 🝸	Operation
Taski Taski TASK20240918721810		Initial	<ul> <li>Medium</li> </ul>	hwstaff_p	-		-	ᢗ ₪ …
TASK20240918720460		Processi	Medium	hwstaff_p	-			¢ ⊕ …
Task truihihhah TASK20240914721019		Initial	<ul> <li>Medium</li> </ul>	hwstaff_p	-		-	¢ ⊕ …

Operation	Procedure
Search for task	<ul> <li>By adding filters</li> <li>1. Click the search box in the task list and select one or more filters to search for tasks.</li> </ul>
	2. To clear all filters and display all data, click $ imes$ on the right of the search bar.
	<ul> <li>By using a saved view</li> <li>1. Click the search box in the task list and select one or more filters.</li> </ul>
	2. Click 🖾 on the rightmost of the search bar, and enter a view name.
	3. Click <b>OK</b> . The created view is displayed next to the <b>Task</b> button.
	<ol> <li>Select the created view to query the tasks that meet the search criteria.</li> <li>Views can be shared with others, modified, and deleted.</li> </ol>
Import work	Use the provided template to import tasks in batches.
items	<ol> <li>In the task list, click *** on the right of the search bar and select Import.</li> </ol>
	<ol> <li>In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>Task</b>) + <b>Template</b>.</li> </ol>
	<ol> <li>Fill in the fields on the Task - List sheet.</li> <li>For details about how to set parameters, see the Task - Import Rules sheet in the template file.</li> </ol>
	4. Drag or click $\square$ to select a file to be imported.
	5. Click <b>Import</b> . The import progress dialog box is displayed.
	• After the import is successful, you can view the imported tasks in the list.
	• If the import fails, a message is displayed in the upper right corner of the page. Click <b>View Failure Details</b> in the message to view the failure details. You can modify the requirement information based on the details and import the template again.
	NOTE For details about operations on import records, see Viewing Work Item Import/Export Records.

Table 6-30 Opera	ions in the task list
------------------	-----------------------

Operation	Procedure
Export work items	Export requirements in batches to an Excel file. 1. Export some or all tasks.
	<ul> <li>Export all: On the Tasks page, click <sup>***</sup> on the right of the search bar and choose Export. The Select Fields to Export dialog box is displayed.</li> </ul>
	<ul> <li>Export some: In the task list, select one or more tasks to be exported and click Export at the bottom of the page. The Select Fields to Export dialog box is displayed.</li> </ul>
	2. Select the fields to be exported and determine whether to export child tasks.
	<ul> <li>3. Click Export. A dialog box is displayed, indicating the export progress. After the tasks are exported, the task file will be automatically downloaded to the local PC. The file format is .xlsx.</li> <li>NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.</li> </ul>
Configure fields to	Click 😳 next to the <b>Operation</b> field.
display	<ul> <li>On the left of the pop-up box, select the fields to be displayed.</li> </ul>
	<ul> <li>On the right of the pop-up box, drag the fields in the Selected area to adjust the display sequence.</li> </ul>

## On the Task Details Page

On the details page of a task, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

Initial Proce	ssing	Co	mpleted
etails 🖉 Attachment 0 🖉 Related Items 0 🕓 Workload 🕓 History			
scription	🖉 Edit	* Status	Processi
1	[]	* Owner	
1		Module	Select
~~~~~		Priority	• Medium
3999999999		Release	Select
		Sprint	Select Release first.
		Planned Start	-Select-
		Planned Com	Select
ments	All 🔻 JF	Planned 🔘	Required.
er a comment. Use @ to notify others.		Sum Actu 🔘	
		Сору То	Select

### Figure 6-66 Task details page

Table 6-31	Management	operations on	the details page
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Operatio n	Procedure	Remarks
Edit work item	On the task details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop-down list. The changes are saved automatically.	You must have permission to <b>edit</b> tasks.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 6-27</b> .	You must have permission to <b>set</b> <b>statuses</b> for tasks.

Operatio n	Procedure	Remarks
Upload attachme nt	Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.	You must have permission to <b>upload</b>
	<ol> <li>Go to the work item details page, and click the Attachment tab.</li> </ol>	attachmen ts for tasks.
	<ol> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box.</li> <li>When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> </ol>	
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.	
	<ul> <li>Click download the file.</li> </ul>	
	<ul> <li>Click is to delete the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks
Add and view	A work item can be associated with other types of work items in a project.	You must have
related item	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permission to <b>associate</b>
	Figure 6-67 Related items	dissociate parent
	🖹 Details 🖉 Attachment 0 🖉 Related Items 1 🗳 Review 🕓 Workload 🔅 History	task, create/ delete
	> Subrequirement(0)   C <sup>*</sup> Break Down <i>O</i> Associate	child requireme
	Related Upstream Requirements(0)     Belated Doubletment Participation (1)    Belate Doubletment	nts, associate, dissociate
	Related Downstream Requirements(1)     P Distribute Requirement     Associate Work Item(0) + Create      Existing	work items,
	> Files (0)   $\mathcal{O}$ Associate	associate, dissociate files, and
	> Wiki(0)   $O$ Associate	associate, dissociate
	2. Complete association.	wikis for tasks.
	<ul> <li>Parent Task: parent task to which a task belongs.</li> <li>You can choose Associated Items &gt; Parent Task of a child task to view the task only when the task contains child tasks.</li> </ul>	
	• <b>Child Task</b> : tasks included in the current task. A maximum of 10 child requirements can be created at a time. One child requirement is displayed by default and cannot be deleted.	
	1. Click <b>Break Down</b> . The <b>Break Down Child</b> <b>Tasks</b> window is displayed.	
	2. Configure the information about the child task. Click 💷 to expand and configure more information.	
	3. Click <b>OK</b> . The child task is created successfully. The child task is automatically displayed under the parent task in the task list.	
	• Associate Work Item: associated work items of other types in the project. Work items of the RR, FE, IR, SR, AR, and bug types can be associated.	
	• Files: files corresponding to the task. Select a file associated with the current task. You can upload a local file.	

Operatio n	Procedure	Remarks
	<ul> <li>Wiki: wikis corresponding to the task.</li> <li>Select a wiki associated with the current task.</li> <li>You can create a wiki.</li> </ul>	
Add workload	<ol> <li>Go to the work item details page, and click the Workload tab.</li> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> <li>Enter the workload information.         <ul> <li>The end date cannot be earlier than the start date.</li> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> <li>You can select Total or Daily for Workload.</li> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul> </li> <li>Click OK. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	You must have permission to <b>add</b> <b>person-</b> <b>hours</b> for tasks. Workloads can be edited and deleted by the creator. By default, the project administrat or can edit and delete all workloads.
View operation history	<ul> <li>History displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload addition.</li> <li>1. Go to the work item details page.</li> <li>2. Click the History tab. <ul> <li>Click I or I to check historical records in the ascending or descending order of operation time.</li> <li>You can set search criteria to query matching historical records.</li> </ul> </li> </ul>	You must have permission to <b>view</b> tasks.

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> <li>Click OK. The new tag is displayed next to the task ID in the task list.</li> <li>(Optional) Hide a tag.</li> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> <li>Figure 6-68 Hiding a tag - 01</li> <li>Tag + • Requirement1</li> <li>• Click Enter a keyword.</li> <li>• Requirement1</li> <li>• Create Tag</li> <li>• Move the cursor to the tag name and click I to hide the tag.</li> <li>Figure 6-69 Hiding a tag - 02</li> <li>Tag + • Requirement1</li> <li>• Requirement1</li> <li>• Move the cursor to the tag name and click I to hide the tag.</li> </ol>	You must have permission to <b>edit</b> tasks.

Operatio n	Procedure	Remarks	
Add attachme nt	<ul> <li>Perform the following operations to add attachments to a work item. You can upload/drag-and-drop a local file or choose a file in CodeArts Wiki.</li> <li>1. Access the page for creating or editing a work item.</li> <li>2. Click + to add attachments to the work item. The maximum size of attachments for a single work item is 50 MB.</li> </ul>	You must have permission to <b>upload</b> <b>attachmen</b> <b>ts</b> for tasks.	
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the Details tab page, click the Comments text box.</li> </ol> Figure 6-70 Add comment Comments All ← 15 If I	You must have permission to <b>view</b> tasks.	
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> <li>Click <b>Submit</b>. Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>		

# 6.8 Creating and Managing Bugs

# 6.8.1 Bug Status Transition Process

The entire lifecycle of a bug has five states: **Analyzing**, **Fixing**, **Testing**, **Accepting**, and **Closed**. **Figure 6-71** shows the complete status transition process.

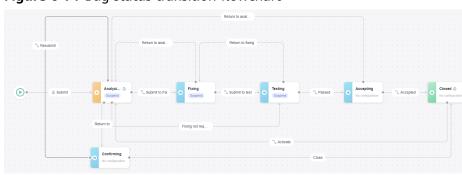


Figure 6-71 Bug status transition flowchart

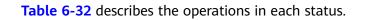


Table 6-32 Operation description	ı
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Status	Description
	Creating bugs
	By default, the bug proposer is the person who finds the bug.
Analyzing	After the bug is submitted, the state changes to <b>Analyzing</b> .
	The current owner analyzes the bug as follows:
	<ul> <li>If the analysis result shows that the bug is not a problem, click Fixing not required to transfer the bug to the proposer.</li> </ul>
	• If the description is incorrect, click <b>Return To</b> to transfer the bug to the current owner for modification.
	After the analysis is complete, click <b>Submit to Fix</b> .
Fixing	After the bug is analyzed, the state changes to <b>Fixing</b> .
	The current owner fixes the bug based on the problem.
Testing	After the bug is fixed, the state changes to <b>Testing</b> .
	The current test owner verifies whether the problem is fixed based on the rectification result. If the result does not meet the expectation, the test owner can return it for fixing or analysis.
Accepting	After the bug is tested, the state changes to <b>Accepting</b> .
	The current acceptance owner tracks the result of the acceptance test.
Closed	After the acceptance is passed, the state changes to <b>Closed</b> .
	A closed bug can be activated. After a bug being activated, its state will change to <b>Analyzing</b> .

# 6.8.2 Creating Bugs

You can create a bug to trace the problems found in the test and verification phase of software features and functions.

## Prerequisites

An IPD-system device project is available, and you have permission to **create and duplicate bugs** for the project.

## **Creating Bugs**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Defects**.
- **Step 3** Click **Bug**. On the **Bug** page, set the required parameters.

### Table 6-33 Creating a bug

Parameter	Description			
Title	Title of a work item.			
Description	Enter the fault symptom description, environment information, onsite fault locating R&D personnel, and the preliminary cause located by the R&D personnel based on the site requirements. The description can include texts, images, or links.			
Attachmen t	A maximum of 100 attachments can be added to a bug, and the total capacity is 50 MB.			
Proposed Project	Project to which the bug creator belongs, which cannot be changed.			
Responsibl e Project	Project to which a bug belongs.			
Raised By	Test personnel who find the bug.			
Owner	Owner of the bug. Select one or more members of the responsible project.			
Module	Module to which a bug belongs.			
	The module value can be customized as follows:			
	1. Click <sup>(2)</sup> . The <b>Modules</b> dialog box is displayed.			
	2. Click <b>Create</b> .			
3. Set <b>Module</b> , <b>Description</b> , and <b>Owner</b> . The value of <b>Module</b> must be unique.				
	<ol> <li>Click <b>OK</b>. The module is created. After a module is created, you can edit and delete the module, and add submodules.</li> </ol>			

Parameter	Description
Severity	Severity of a bug. The options are <b>Info, Minor, Major</b> , and <b>Critical</b> .
Responsibl	Release plan where a bug is found.
e Release	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	The parameter value can be empty. You can create a release and then associate it with the release.
Responsibl	Next level of the release plan.
e Sprint	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	The parameter value can be empty. You can create a sprint and then associate it with the sprint.
Environme nt	Environment where a bug is found. The options are development, test, and production environments.
Сору То	Other members in the project. The selected members will receive a system notification.
Expected Rectificatio n	Expected time for fixing a bug.

**Step 4** Click **Submit**. The **Bugs** tab page is displayed, and a message is displayed in the upper right corner, indicating that the bug is created successfully.

The new bug is displayed in the bug list, and the state is **Analyzing**.

**NOTE** 

After a bug is created, the people selected for **Owner**, **Raised By**, and **Copy To** will receive email and direct messages. If not, set notifications or modify notification settings. For details, see **Configuring Notification Rules**.

----End

## **Related Operations**

You can perform the following operations on a new bug.

Operation	Description
Modify bug title	Click 🖉 next to a bug title to modify it.
Modify bug field	Click the target field value in the row of a bug to modify the value.

Table 6-34 Basic operations on a bug

Operation	Description					
Duplicate bug	Click $\textcircled{\oplus}$ in the <b>Operation</b> column. This process is the same as that of creating a bug.					
Migrate bug	<ul> <li>Click in the Operation column of a bug to migrate it to other projects.</li> <li>NOTE <ul> <li>Bugs in a Done state cannot be migrated.</li> <li>After migration, <ul> <li>The bug will be handled again.</li> <li>The actual workload, related items, tags, discovering PI, and fixing PI of the bug will be cleared.</li> </ul> </li> </ul></li></ul>					
	• Only the custom bug fields of the target project will be displayed.					
Collaborat e on bug	Click					
Delete bug	Choose *** > <b>Delete</b> in the <b>Operation</b> column of a bug to delete it. NOTE					
	• Bugs that are being reviewed or in a <b>Doing</b> state cannot be deleted.					
	• If you delete drafted bugs, they are permanently deleted.					
	• Bugs in a <b>To Do</b> state can be deleted only in the proposing project. Bugs in a <b>Done</b> state can be deleted in both the proposing project and the responsible project.					
	<ul> <li>If you delete bugs of the proposing project, they are permanently deleted. If you delete bugs in the responsible project, they are moved to the project's recycle bin.</li> </ul>					
	<ul> <li>Bugs in the recycle bin can be restored or permanently deleted. After being restored, bugs restore to their original status.</li> </ul>					

# 6.8.3 Managing Bugs

After creating a bug (see **Creating Bugs**), you can perform the operations described in this section on it.

## On the Bug List Page

On the project homepage, choose **Work > Req > Defects**, and perform the following operations.

### Figure 6-72 Bug list

Homepag	Homepage / IPD-								
Raw Req	uirements Feature Tree R&D Requirements Tasks	Defects Review	Statistics Plans				0	Feedback 🗊 Rec	cycle Bin
This Proj	tet Other Projects + Bug All • Q Add filters.								
	Title 🞯 🍸		Status T	Days Idle 🕒 🝸	Severity 🕘 T	Owner 🕒 T	Responsible Project	Operation	0
	Bug BUG20240914717901		Analyzing	2 days	• Info		IPD-	⊕ ⊳ …	
	Bug BUG20240914720802		Analyzing	2 days	• Info		IPD-	⊕ ເ≎ …	

Operatio n	Procedure					
Search for bug	<ul> <li>By adding filters</li> <li>1. Click the search box in the bug list and select one or more filters to search for bugs.</li> </ul>					
	<ul> <li>2. To clear all filters and display all data, click × on the right of the search bar.</li> <li>By using a saved view</li> </ul>					
	<ol> <li>Click the search box in the bug list and select one or more filters.</li> </ol>					
	2. Click 🖾 on the rightmost of the search bar, and enter a view name.					
	<ol> <li>Click OK. The created view is displayed next to the Bug button.</li> </ol>					
	4. Select the created view to query the bugs that meet the search criteria.					
	Views can be shared with others, modified, and deleted.					
Import	Use a template to import bugs in batches.					
work items	<ol> <li>In the bug list, click <sup>***</sup> on the right of the search bar and select Import.</li> </ol>					
	<ol> <li>In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>Bug</b>) + <b>Template</b>.</li> </ol>					
	<ol> <li>Fill in the fields on the Bug - List sheet.</li> <li>For details about how to set parameters, see the Bug - Import Rules sheet in the template file.</li> </ol>					
	4. Drag or click $\Box$ to select a file to be imported.					
	5. Click <b>Import</b> . The import progress dialog box is displayed.					
	<ul> <li>After the import is successful, you can view the imported bug information in the bug list.</li> </ul>					
	• If the import fails, a message is displayed in the upper right corner of the page. Click <b>View Failure Details</b> in the message to view the failure details. You can modify the requirement information based on the details and import the template again.					
	NOTE For details about operations on import records, see Viewing Work Item Import/Export Records.					

Operatio n	Procedure
Export work items	Export bugs in batches to an Excel file. 1. Export some or all bugs.
literits	<ul> <li>Export all: On the <b>Defects</b> page, click <sup>***</sup> on the right of the search bar and choose <b>Export</b>. The <b>Select Fields to Export</b> dialog box is displayed.</li> </ul>
	<ul> <li>Export some: In the bug list, select one or more bugs to be exported and click Export at the bottom of the page. The Select Fields to Export dialog box is displayed.</li> </ul>
	2. Select the fields to be exported.
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the bugs are exported, the bug file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.
Configure	Click 🍄 next to the <b>Operation</b> field.
fields to display	• On the left of the pop-up box, select the fields to be displayed.
all proj	<ul> <li>On the right of the pop-up box, drag the fields in the Selected area to adjust the display sequence.</li> </ul>

## On the Bug Details Page

On the details page of a bug, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

Figure 6-75 buy details page							
BUG20240914720221   hwstaff_p_PaaSDevSpore created at Sep 14, 2024 11:02: Tag +	Return to Fixing not	required Submit	to Fix $\bullet$ $\bullet$				
Bug Bug1							
Analyzing Fixing Testing	Accept	ing	Closed				
Details							
🗟 - Description	🖉 Edit	* Status	Analyzing				
( )	[]	Proposed Pro	IPD				
նիրիրիրի							
KIKKKKKKKK		* Responsible	IPD				
( ) mmmmmm		* Owner					
[ ]		Module	Select				
			• Minor				
		Responsible	-Select-				
Comments	All 🔻 JF	Responsible	Select Responsible Release firs				
Enter a comment. Use @ to notify others.		Environment	Select				
		Сору То	Select				
Sep 14, 2024	09-14 11:02:23	Domain	-Select-				
T Dug submitted	001411.02.20	Expected Re	-Select-				
		Planned Start	-Select-				
		Planned Com	Select				
		Planned 🔘	Required.				

## Figure 6-73 Bug details page

Table 6-36	Management	operations	on the	details page
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Operatio n	Procedure	Remarks
Edit work item	On the bug details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop-down list. The changes are saved automatically.	You must have permission to <b>edit</b> bugs.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 6-32</b> .	You must have permission to <b>update</b> statuses for bugs.

Operatio n	Procedure	Remarks
Upload attachme nt	Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.	You must have permission to <b>upload</b>
	<ol> <li>Go to the work item details page, and click the Attachment tab.</li> </ol>	attachmen ts for bugs.
	<ol> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box.</li> <li>When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> </ol>	
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.	
	<ul> <li>Click download the file.</li> </ul>	
	<ul> <li>Click is to delete the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks
Add and view	A work item can be associated with other types of work items in a project.	You must have
related item	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permissior to <b>associate</b> /
	Figure 6-74 Related items	dissociate work
	Details @ Attachment 0 @ Related Items 2 & Review (*) Workload (*) History	items, assign bugs,
	> Associate Work Item(1)	associate/ dissociate
	> Associated upstream bugs(1)	<b>files</b> , and <b>associate</b> /
	> Associated downstream bugs(0)   🖹 Assign Owner	dissociate wikis for
	> Files (0)   Ø Associate	bugs.
	> Wiki(0)   Ø Associate	
	> Test Plan(0) Image: Constraint of the second se	
	> Test Case(0) 🔘	
	> Code Commit Record(0)	
	> Code Branch(0)	
	2. Complete association.	
	<ul> <li>Associate Work Item: associated work items of other types in the project. Associate existing RRs.</li> </ul>	
	Associate existing IRs, SRs, and ARs.	
	Associate existing tasks. To cancel the	
	association, click $^{i_{i_{i_{i_{i_{i_{i_{i_{i_{i_{i_{i_{i_{$	
	• Associated upstream bugs: bugs coordinated from upstream projects. The upstream bug information is displayed only when their responsible project is set to the current project on their downstream bug association page.	
	<ul> <li>Associated downstream bugs: bugs assigned to other projects for collaboration.</li> <li>A maximum of 10 child bugs can be created at a time. One child bug is displayed by default and cannot be deleted.</li> </ul>	

Operatio n	Procedure	Remarks
	<ol> <li>Click Assign Owner.</li> <li>Configure the information about bug assignment. Click I to expand and configure more information.</li> </ol>	
	3. Click <b>OK</b> . The bug is assigned. The bug can only be viewed and handled in the responsible project. NOTE	
	After a bug is assigned for collaboration, its attachments will not be synchronized to the downstream bugs. The current owners of these downstream bugs can contact the bug creator to obtain attachments.	
	• <b>Files</b> : files corresponding to the bug. Select a file associated with the current bug. You can upload a local file.	
	<ul> <li>Wiki: wikis corresponding to the bug. Select a wiki associated with the current bug. You can create a wiki.</li> </ul>	
	<ul> <li>Test Plan: test plans related to the current bug. You can associate test plans with the current bug.</li> </ul>	
	• <b>Test Case</b> : test cases related to the current bug. You can associate bugs with test cases in CodeArts TestPlan. The associated cases will be displayed here.	
	• <b>Code Commit Record</b> : code submission records related to the current bug. Related information is displayed only when the current bug is associated during code commit.	
	<ul> <li>Code Branch: code branches related to the current bug.</li> <li>Related information is displayed only when code branches are associated with the current bug.</li> </ul>	

Operatio n	Procedure	Remarks
Add workload	<ol> <li>Go to the work item details page, and click the Workload tab.</li> </ol>	You must have
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>
	3. Enter the workload information.	person- hours for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	bugs. Workloads
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	can be edited and deleted by
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	the creator. By default,
	• Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.	administrat or can edit and delete
	<ol> <li>Click <b>OK</b>. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	workloads.
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload addition.	You must have permission to <b>view</b>
	1. Go to the work item details page.	bugs.
	2. Click the <b>History</b> tab.	
	<ul> <li>Click I or T to check historical records in the ascending or descending order of operation time.</li> </ul>	
	<ul> <li>You can set search criteria to query matching historical records.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> <li>Click OK. The new tag is displayed next to the bug ID in the bug list.</li> <li>(Optional) Hide a tag.         <ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul> </li> <li>Figure 6-75 Hiding a tag - 01         <ul> <li>Tag + • Requirement1             <ul> <li>Requirement1</li> <li>Requirement1</li></ul></li></ul></li></ol>	You must have permission to <b>edit</b> bugs.

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the <b>Details</b> tab page, click the <b>Comments</b> text box.</li> <li>Figure 6-77 Add comment</li> </ol>	You must have permission to <b>view</b> bugs.
	Comments All + 47	
	Submit Cancel	
	3. Enter a comment.	
	You can upload images, enter links, associate work items, and use @ to notify project members in comments.	
	<ol> <li>Click Submit. Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 6.9 Reviewing Work Items

# 6.9.1 IPD-System Device Project Reviews

IPD-system device projects have three review types: change review (CR), baseline review (BR), and general review (GR). They are described in **Table 6-37**.

Review Type	Description	Review Object
Change review (CR)	<ul> <li>Changing the controlled fields of a raw requirement or bug will initiate a change review. The change will be synchronized to the requirement and bug only after the review is approved.</li> <li><b>NOTE</b> <ul> <li>The control status of a raw requirement and bug is determined by whether any controlled fields are configured for specific status. A field is deemed under control when a raw requirement or bug is in the specified status.</li> </ul> </li> <li>Changing the baselined fields of a system feature or R&amp;D requirement will initiate a change review. The change will be synchronized to the feature and requirement only after the review is approved.</li> </ul>	Raw requirements, system features, R&D requirements, and bugs
Baseline review (BR)	To baseline a system feature or R&D requirement, you need to initiate a baseline review. The feature and requirement will be baselined only after the review is approved.	Systems features and R&D requirements
General review (GR)	To review a work item, you can initiate a general review. The work item takes effect only after the review is approved.	Raw requirements, system features, R&D requirements, and bugs

 Table 6-37 Review types

# 6.9.2 Creating and Completing Work Item Reviews

## 6.9.2.1 Creating and Completing CRs

When a raw requirement, system feature, R&D requirement, or bug is under control or baselined, you can perform the following steps to modify their controlled or baselined fields.

## Creating a CR

### Step 1 Access the CodeArts Req homepage.

**Step 2** Create a CR in either of the following ways:

 On the project homepage, go to the raw requirement, feature tree, R&D requirement, or bug list page, select a controlled raw requirement or bug, or a baselined system feature or R&D requirement, and modify a parameter marked with the i icon. In the displayed dialog box, click OK. • On the project homepage, choose **Review** > **Change Review**. Then click **CR**.

**Step 3** On the **CR** page, set the required parameters.

Parameter	Description
CR Title	<ul> <li>Title of the review.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 256 characters.</li> </ul>
Description	<ul><li>Enter the background, value, and details of the review.</li><li>Use text, images, or links.</li><li>Include 1 to 50,000 characters.</li></ul>
Start time	The time when you want the review to start.
Completes	The time when you want the review to complete.
Require Decision- Making	This parameter is available only when <b>Require Decision-</b> <b>Making</b> is enabled on the <b>Settings &gt; Work &gt; Review</b> page. <b>NOTE</b> If <b>Require Decision-Making</b> is set to <b>No</b> , no approver needs to be specified. The review will skip the decision-making phase.
Сору То	Select the project members you want to inform about this review.

Parameter	Description
Change Object	Add the objects to be changed, including raw requirements, system features, R&D requirements, and bugs.
	• Raw requirements can be selected only when they are in the <b>Confirming</b> , <b>Planning</b> , or <b>Implementing</b> state. After adding change objects, modify controlled fields (marked with ), and set <b>Approver</b> and <b>Reviewer</b> .
	• System features and R&D requirements can be selected only when they are baselined. After adding change objects, modify controlled fields (marked with ), and set <b>Approver</b> and <b>Reviewer</b> .
	• Bugs can be selected only when they are in a status in which a controlled field is editable. After adding change objects, modify controlled fields (marked with ), and set <b>Reviewer</b> and <b>Review Expert</b> .
	<b>NOTE</b> If <b>Review Expert</b> is not set, the review phase will be skipped.
	The options of <b>Review Expert</b> are project members. You can select multiple ones.
	For systems features and R&D requirements:
	The options of <b>Reviewer</b> can be configured on the <b>Settings</b> > <b>Work</b> > <b>Review</b> page. The default options are project administrator and project manager. You can select only one option.
	For raw requirements:
	• If the proposing project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, and requirement owner of the responsible project. You can select only one option.
	• If the responsible project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, and requirement submitter of the proposing project. You can select only one option.
	For bugs:
	• If the proposing project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, test manager, and bug owner of the responsible project. You can select only one option.
	• If the responsible project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, test manager, and bug creator of the proposing project. You can select only one option.
Associated Files	Attachments, wikis, and documents related to the review. <b>NOTE</b> If the change objects include a raw requirement and bug, files can be associated only when the proposing and responsible projects are the same.
Collaborative Parent Item Change	Existing change reviews you wish to collaboratively complete with the current review.

#### Step 4 Click Submit.

You can view the new CR in the change review list.

----End

## Completing a CR

This operation is performed by the specified review experts and reviewer of a CR.

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Review** > **Change Review**.
- **Step 3** Click the title of a CR in the **To Be Reviewed** state. The CR details page is displayed on the right.
- **Step 4** Click the  $\square$  icon in the row that contains the target change object, and set the required parameters.

#### Figure 6-78 Review by review experts

Expert Review	×
* Result	
O Approve Reject Transfer to others	
* Comment	
	0/300
	OK Cancel
Expert Comments	
No comments so far	

#### Table 6-39 Review by review experts

Parameter	Description
Result	Select your review result.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another review expert.
Comment	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Expert Comments	Comments of other review experts.

#### **Step 5** Select a review result (**Approve** or **Reject**) and click **OK**.

#### **NOTE**

After the expert review is completed, the final review result can be determined using the selected method on the **Settings > Work > Review** page.

- By single reviewer: A CR is complete when one review expert approves or rejects it.
- **By all reviewers**: A CR is complete when all review experts approve it or one review expert rejects it.
- **By pass rate**: A CR is complete when "Number of review experts who approve the review/Total number of review experts × 100% ≥ Pass rate", or "Number of review experts who reject the review/Total number of review experts × 100% > 1 Pass rate".

If a CR's result in the review phase is **Rejected**, the CR skips the decision-making phase and its final result is **Rejected**.

After the review phase of all change objects in the CR is complete, the CR status changes to **Decisioning**.

- **Step 6** Click the title of a CR in the **To Be Approved** state. The CR details page is displayed on the right.
- **Step 7** Click the  $\stackrel{\circ}{=}$  icon in the row that contains the target change object, and set the required parameters.

#### Figure 6-79 Decision-making by reviewer

Decide by reviewer		×
Result		
O Approve O Reject O Transfer to others		
Comments		
		0/300
	OK	Cancel
Expert Comments		
No comments so far		

#### Table 6-40 Decision-making by reviewer

Parameter	Description
Result	Select your decision.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another reviewer.
Comments	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Review Result	The result of the review phase for your reference.

Parameter	Description
	Results and comments of review experts in the review phase for your reference.

**Step 8** Select **Approve** or **Reject** for **Result**, and click **OK**. The CR object's approval result is displayed after its decision-making process is complete.

#### **NOTE**

The CR status changes to **End** only after the decision-making process of all change objects is complete.

----End

## 6.9.2.2 Creating and Completing BRs

When your system features and R&D requirements need to be baselined, perform the following steps to initiate a baseline review.

### Creating a BR

### Step 1 Access the CodeArts Req homepage.

**Step 2** Create a BR in either of the following ways:

- On the project homepage, go to the feature tree or R&D requirement list page, select unbaselined system features or R&D requirements, and click Baseline Review in the pop-up box.
- On the project homepage, choose **Review** > **Baseline Review**. Then click **BR**.
- Step 3 On the BR page, set the required parameters.

Parameter	Description
BR Title	<ul> <li>Title of the review.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 256 characters.</li> </ul>
Description	<ul><li>Enter the background, value, and details of the review.</li><li>Use text, images, or links.</li><li>Include 1 to 50,000 characters.</li></ul>
Start time	The time when you want the review to start.
Completes	The time when you want the review to complete.

Table 6-41 Creating a BR

Parameter	Description
Require Decision- Making	This parameter is available only when <b>Require Decision-</b> <b>Making</b> is enabled on the <b>Settings &gt; Work &gt; Review</b> page. <b>NOTE</b> If <b>Require Decision-Making</b> is set to <b>No</b> , no approver needs to be specified. The review will skip the decision-making phase.
Reviewer	The options of <b>Reviewer</b> can be configured on the <b>Settings</b> > <b>Work</b> > <b>Review</b> page. The default options are project administrator and project manager. You can select only one option.
Review Expert	If <b>Review Expert</b> is not set, the review phase will be skipped. The options of <b>Review Expert</b> are project members. You can select multiple ones.
Сору То	Select the project members you want to inform about this review.
Baseline Object	<ul> <li>Add the objects to be baselined, including system features and R&amp;D requirements.</li> <li>Only system features and R&amp;D requirements that are not baselined can be added.</li> </ul>
Associated Files	Attachments, wikis, and documents related to the review.

#### Step 4 Click Submit.

You can view the new BR in the baseline review list.

----End

#### Completing a BR

This operation is performed by the specified review experts and reviewer of a BR.

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Review** > **Change Review**.
- **Step 3** Click the title of a BR in the **To Be Reviewed** state. The BR details page is displayed on the right.
- **Step 4** On the details page, click **Expert Review** in the upper right corner. In the displayed dialog box, set the required parameters.

#### Figure 6-80 Review by review experts

Expert Review	×
Result	
O Approve Reject Transfer to others	
* Comment	
	0/300
	OK Cancel
Expert Comments No comments so far	
No comments so far	

#### Table 6-42 Review by review experts

Parameter	Description	
Result	Select your review result.	
	• <b>Approve</b> : You agree with the change.	
	Reject: You do not agree with the change.	
	• <b>Transfer to others</b> : Transfer the review to another review expert.	
Comment	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .	
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>	
	Include 1 to 300 characters.	
Expert Comments	Comments of other review experts.	

#### **Step 5** Select a review result (**Approve** or **Reject**) and click **OK**.

#### **NOTE**

After the expert review is completed, the final review result can be determined using the selected method on the **Settings > Work > Review** page.

- By single reviewer: A BR is complete when one review expert approves or rejects it.
- **By all reviewers**: A BR is complete when all review experts approve it or one review expert rejects it.
- By pass rate: A BR is complete when "Number of review experts who approve the review/Total number of review experts × 100% ≥ Pass rate", or "Number of review experts who reject the review/Total number of review experts × 100% > 1 – Pass rate".

If a BR's result in the review phase is **Rejected**, the BR skips the decision-making phase and its final result is **Rejected**.

- **Step 6** Click the title of a BR in the **To Be Approved** state. The BR details page is displayed on the right.
- **Step 7** On the details page, click **Decide by reviewer** in the upper right corner. In the displayed dialog box, set the required parameters.

Figure 6-81 Decision-making by reviewer		
Expert Review		×
Result		
O Approve O Reject O Transfer to others		
• Comment		
		0/300
Expert Comments	ОК	Cancel
No comments so far		

#### Table 6-43 Decision-making by reviewer

Parameter	Description
Result	<ul> <li>Select your decision.</li> <li>Approve: You agree with the change.</li> <li>Reject: You do not agree with the change.</li> <li>Transfer to others: Transfer the review to another reviewer.</li> </ul>
Comments	<ul> <li>Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b>.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 300 characters.</li> </ul>
Review Result	The result of the review phase for your reference.
Expert Comments	Results and comments of review experts in the review phase for your reference.

Step 8 Select Approve or Reject for Result, and click OK. The BR status changes to End.

----End

## 6.9.2.3 Creating and Completing GRs

When your work items need to be reviewed, perform the following steps to initiate a general review.

## Creating a GR

Step 1 Access the CodeArts Req homepage.

**Step 2** On the project homepage, choose **Review** > **General Review**. Then click **GR**.

**Step 3** On the **GR** page, set the required parameters.

#### Table 6-44 Creating a GR

Parameter	Description
GR Title	<ul> <li>Title of the review.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 256 characters.</li> </ul>
Description	<ul><li>Enter the background, value, and details of the review.</li><li>Use text, images, or links.</li><li>Include 1 to 50,000 characters.</li></ul>
Start time	The time when you want the review to start.
Completes	The time when you want the review to complete.
Require Decision- Making	This parameter is available only when <b>Require Decision-</b> <b>Making</b> is enabled on the <b>Settings &gt; Work &gt; Review</b> page. <b>NOTE</b> If <b>Require Decision-Making</b> is set to <b>No</b> , no approver needs to be specified. The review will skip the decision-making phase.
Reviewer	The options of <b>Reviewer</b> can be configured on the <b>Settings</b> > <b>Work</b> > <b>Review</b> page. The default options are project administrator and project manager. You can select only one option.
Review Expert	If <b>Review Expert</b> is not set, the review phase will be skipped. The options of <b>Review Expert</b> are project members. You can select multiple ones.
Сору То	Select the project members you want to inform about this review.
Associated Object	Add the objects to be reviewed, including raw requirements, system features, R&D requirements, and bugs.
Associated Files	Attachments, wikis, and documents related to the review.

#### Step 4 Click Submit.

You can view the new GR in the general review list.

----End

# Completing a GR

This operation is performed by the specified review experts and reviewer of a GR.

Step 1 Access the CodeArts Req homepage.

**Step 2** On the project homepage, choose **Review** > **Change Review**.

- **Step 3** Click the title of a GR in the **To Be Reviewed** state. The GR details page is displayed on the right.
- **Step 4** On the details page, click **Expert Review** in the upper right corner. In the displayed dialog box, set the required parameters.

Figure 6-82 Review by review experts

Expert Review	×
Result	
O Approve C Reject C Transfer to others	
• Comment	
	0/300
	ОК Сапсеі
Expert Comments	
No comments so far	

#### Table 6-45 Review by review experts

Parameter	Description	
Result	Select your review result.	
	• <b>Approve</b> : You agree with the change.	
	Reject: You do not agree with the change.	
	• <b>Transfer to others</b> : Transfer the review to another review expert.	
Comment	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .	
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>	
	Include 1 to 300 characters.	
Expert Comments	Comments of other review experts.	

#### Step 5 Select a review result (Approve or Reject) and click OK.

#### **NOTE**

After the expert review is completed, the final review result can be determined using the selected method on the **Settings > Work > Review** page.

- By single reviewer: A GR is complete when one review expert approves or rejects it.
- **By all reviewers**: A GR is complete when all review experts approve it or one review expert rejects it.
- By pass rate: A GR is complete when "Number of review experts who approve the review/Total number of review experts × 100% ≥ Pass rate", or "Number of review experts who reject the review/Total number of review experts × 100% > 1 Pass rate".

If a GR's result in the review phase is **Rejected**, the GR skips the decision-making phase and its final result is **Rejected**.

- **Step 6** Click the title of a GR in the **To Be Approved** state. The GR details page is displayed on the right.
- **Step 7** On the details page, click **Decide by reviewer** in the upper right corner. In the displayed dialog box, set the required parameters.

Figure 6-83 Decision-making by reviewer

Decide by reviewer	×
Result	
O Approve O Reject O Transfer to others	
Comments	
	0/300
	OK Cancel
Expert Comments	
No comments so far	

#### Table 6-46 Decision-making by reviewer

Parameter	Description
Result	Select your decision.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another reviewer.
Comments	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Review Result	The result of the review phase for your reference.
Expert Comments	Results and comments of review experts in the review phase for your reference.

**Step 8** Select **Approve** or **Reject** for **Result**, and click **OK**. The GR status changes to **End**.

----End

# 6.10 Tracking the Project Progress

# 6.10.1 Using Project Overview

During a project, you can track the work item progress in the project overview.

# Viewing the Project Overview

In the project overview, statistical charts display all project data in two dimensions.

- By Release: Select the release and sprint versions to be viewed.
- By Creation Time: Select the time segment you want to view, including All, Last 7 Days, Last 14 Days, Last 30 Days, Last 90 Days, and Custom.

The following table lists the statistical charts in the project overview.

Table	6-47	Statistical	charts
-------	------	-------------	--------

Statistical Chart	Data Description
Project statistics	Includes the total numbers of IRs, SRs, ARs, tasks, and bugs, and the processing status (processing, completed, or overdue).
Release burndown	Displays only when you view information <b>By Release</b> . Includes the remaining workload, total workload, and ideal line. You can select specific work items (IRs, SRs, ARs, tasks, and bugs) to view and download them.
Release capacity load	Displays only when you view information <b>By Release</b> . Displays release plans, sprints, and workload of each work item in bar charts.
Bug trend	Displays only when you view information <b>By Release</b> . Includes the total number of bugs found, the total number of resolved bugs, and the DI value of outstanding bugs.
Work item statistics for project members (by priority)	Obtains statistics of RRs, SFs, IRs, SRs, ARs, and tasks by priority in bar charts or tables.
Work item completion	Displays only when you view information <b>By Release</b> . Completion rate of the selected work items.
Work item statistics for project members (by status)	Obtains statistics of RRs, SFs, IRs, SRs, ARs, tasks, and bugs by work item status in pie charts or tables.
Work item breakdown	Obtains statistics of RRs, IRs, and SRs by required breakdown in bar charts.
Work item completion rate	Obtains statistics and percentages of RRs, SFs, IRs, SRs, ARs, tasks, and bugs by completion in bar charts.

Statistical Chart	Data Description
Requirement TTM	Obtains statistics of RRs, IRs, SRs, and ARs based on the average duration from the development status to the completion status in bar charts.
Work items by status	Obtains statistics of RRs, SFs, IRs, SRs, ARs, tasks, and bugs by work item status in bar charts or tables.
Work item stay days	Obtains statistics of RRs, SFs, IRs, SRs, ARs, tasks, and bugs by work item status duration (days) in bar charts.
Unfinished work items by member	Obtains statistics of uncompleted RRs, SFs, IRs, SRs, ARs, tasks, and bugs by member in bar charts or tables.

# 6.10.2 Using Bug Measurement

You can use bug measurement to track the defect progress.

### Viewing the Bug Measurement

By default, the bug measurement view displays the following statistical charts: bug overview, legacy DI trend, accumulated bugs, bug daily throughput, bug distribution by severity, bug distribution by status, and top 8 owners with legacy bugs.

- Numerical statistical charts: The indicator value represents data for all work items in real time. For example, the total number of bugs in **Bug Overview** is equal to the total number of bugs during statistics collection.
- Trend charts: The indicator value represents the daily data. For example, the total number of legacy bugs on June 7 in **legacy DI Trend** is equal to the total number of legacy bugs on June 7.

The following table lists the statistical charts in bug measurement.

Statistical Chart	Data Description
Bug overview statistics	Collects statistics on the number of bugs whose states are processing, completed, and overdue and whose severities are severe at the current time. Click a number to view the corresponding list.

Statistical Chart	Data Description
Legacy DI trend	Collects statistics on the DI trend of legacy bugs in the selected time range.
	• DI: indicates the value calculated based on the weight of bugs at each severity level.
	<ul> <li>Legacy DI = Number of legacy critical bugs x 10 + Number of legacy major bugs x 3 + Number of legacy minor bugs x 1 + Number of legacy suggestion bugs x 0.1</li> </ul>
Accumulated bugs	Shows the trends of accumulated bugs found, resolved bugs, and legacy bugs.
	Cumulative number of legacy bugs = Cumulative number of found bugs – Cumulative number of resolved bugs.
Bug daily throughput	Collects the number of bugs found and fixed in the selected time period.
Bug distribution by severity	Collects statistics on the number of bugs by severity at the current time.
Bug distribution by status	Collects statistics on the number of bugs by status at the current time.
Top 8 owners with legacy bugs	Collects top 8 owners of legacy bugs at the current time and displays the bug number.

# 7 Managing IPD-Standalone Software Project Requirements

# 7.1 Requirement Management Process

IPD-standalone software projects are IPD requirement management methods for independent software development. They manage large-scale software development with high quality and efficiency through structured processes and powerful cross-project collaboration capabilities, including raw requirements, system features, R&D requirements, tasks, and bugs, among which tasks and bugs are activities generated and problems found during requirement implementation, respectively.

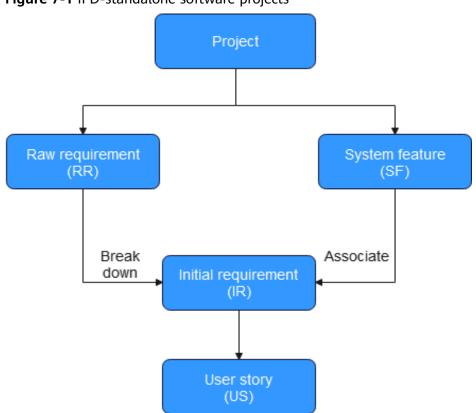


Figure 7-1 IPD-standalone software projects

Table 7-1 lists the important operations for IPD-standalone software projects.

Function	Description			
Raw requirement (RR)	RRs are raw problems or requirements described from the perspective of customers. Customer requirements are a type of RRs, which need to be analyzed and reviewed by the RMT/ RAT.			
Feature tree	FTs contain feature sets and SFs.			
(FT)	• Feature set: aggregates and manages SFs. Multi-level relationships can be established for the feature set, and the feature tree version snapshot and snapshot comparison functions are provided.			
	<ul> <li>SF: feature that brings benefits. SFs can have different types of sub-requirements in this hierarchy: SF &gt; IR &gt; US.</li> </ul>			

Table 7-1 Operation description for IPD-standalone software projects

Function	Description
System feature (SF)	SFs are major capabilities of offering requirements or services to support problems (PBs).
	<ul> <li>Offering requirements: a group of complete, consistent, and series of formal requirements planned by product managers/planning representatives.</li> <li>In principle, SFs are a set of key selling points (highlights) of an offering. Each SF is an E2E solution that meets customers' specific business value requirements. Some SFs can be sold separately via license control.</li> </ul>
	• PBs: challenges and opportunities faced by customers (customer strategies and pain points), that is, key problems solved by a product or service for customers. Resolving key problems can bring core value to customers.
R&D requirement (IR/US)	<ul> <li>There are two work item types under R&amp;D requirements:</li> <li>Initial requirement (IR) IRs are re-described accurately, with complete background, in standard format, and from the perspective of customers/markets.</li> </ul>
	• User story (US) User stories are brief description of functions that are valuable to users or customers, which comply with the INVEST principles. USs are decoupled and can be delivered independently, which is the basis of agile sprint delivery.
Task	Tasks are activities with a certain goal.
Bug	Bugs are problems found in a project.

# 7.2 Common Configuration Management

# 7.2.1 Configuring Common Work Item Fields

Customize common fields that can be used by any type of work items in your project.

# Prerequisites

- An IPD-standalone software project is available, in which you have permission to **configure work item templates**.
- You have the tenant administrator permission.

# **Configuring Common Fields in a Project**

Step 1 Access the CodeArts Req homepage.

**Step 2** Go to the project and choose **Settings > Work**.

**Step 3** In the navigation pane, choose **Work Items > Common Field**.

Step 4 Click Create Field. In the dialog box that is displayed, set the required parameters.

Parameter	Description
Field Name	Enter a maximum of 15 characters, including letters, digits, and hyphens (-).
Field Type	Type of the field.
	The options include: single-choice list, multi-choice list, single-line text, multi-line text, date, date and time, integer, decimal, single-choice user, multi-choice user, and level field.
Description	Remarks about the field. Enter a maximum of 50 characters, including letters, digits, and hyphens (-).

Table 7-2 Creating a field

#### Step 5 Click OK.

The new field is displayed at the end of the list. The parameters in this list are described in the following table.

Paramete r	Description
Field Name	System or custom field name. Hover over the header and click to sort by field name.
Created/ Added By	The user who creates or adds a field. Hover over the header and click  to sort by creator or adding user.
Created/ Added At	Time when a field is created or added. Hover over the header and click  to sort by creation or addition time.
Field Type	System or custom field type. The options include: single-choice list, multi-choice list, single-line text, multi-line text, date, date and time, integer, decimal, single- choice user, multi-choice user, and level field. Hover over the header and click $\bigcirc$ to sort by field type.
	Hover over the header and click to filter fields.
Option	Displayed only for single- and multi-choice list fields.
Descriptio n	System or custom field description.
Status	Work item types that are currently using a system or custom field.

Table 7-3 Field list

Paramete r	Description
Operation	You can edit and delete a field.
	To edit a field, click $ ot\!\!\!/ 2$ in this column. NOTE
	System fields cannot be edited.
	<ul> <li>Custom fields of your tenant cannot be edited here.</li> </ul>
	To delete a field, click 🔟 in this column.
	NOTE
	System fields cannot be deleted.
	• Deleting a tenant-defined field only removes it from work item templates where it was previously used. It remains in the tenant's field list.
	Deleted fields cannot be recovered.

**Step 6** (Optional) Add a common field (for example, **CommonField01**) to a work item template.

The following uses the IR work item template as an example:

- 1. Choose Work > Work Items > Initial Requirement (IR) > Field Templates.
- 2. Click **Add Field**, select **CommonField01** from the **Field Name** drop-down list, and click **Add** to save the template.

/ork Item lanagement	<u> </u>		ion Templates Navig						+ Add Fi	
Raw Requir	Field Nan	ne Added By	Added At	Field Type	Display Durin	Required	Baselined 🔘	Option	Default Value	(
System Feat	Title S	iystem Sys	t Sep 13, 2	Single-line				-	-	
nitial Req		-								
ystem Req	Add Fie	ld		×						
llocated R	<ul> <li>Field Nam</li> </ul>	1e								
ask	-Select-			^				Initial,Anal	Initial	
ug	Enter a	a name.		Q					Creator	
ommon Fi	:: Priority	y Sequence System		Integer					Creator	
ommon St	Progre	ess System	L	ist (single-choice)				-	-	
	Module	e System		Hierarchy						
	II Expec	ted Completion System		Date				-		
	II Promis	sed System	L	ist (single-choice)				High,Medi	Medium	
	Recipi	ient System	U	ser (multi-choice)				-		
	High V	/alue System	L	ist (single-choice)						

Figure 7-2 Add Field dialog box

Check this CommonField01 field when creating or editing an IR on the Work
 > Req > R&D Requirements page.

#### **NOTE**

- Customized common fields can be configured and used for all types of work items of the current project.
- The IR work item template is used as an example. You can add common fields to other work item templates in the same way, and only need to do this once for each of them.
- A maximum of 100 common fields can be customized in a project.

----End

# **Configuring Common Fields in Tenant Settings**

You can configure tenant-level common fields for work items across all your IPD projects.

- **Step 1** Log in to the CodeArts homepage, click  $\bigcirc$ , and choose **All Account Settings**.
- **Step 2** Choose **Work > Field**. The existing common fields are displayed.
- **Step 3** Click **Create Field**. In the dialog box that is displayed, enter a field name, select a field type, and click **OK**. The new field is displayed in the list.

----End

You can perform the following operations on a new field:

- Click *i* to modify the field name, type, and description.
- Click 🔟. In the dialog box that is displayed, click **Delete** to delete the field.

**NOTE** 

Fields created on the **Work** > **Field** page apply to all IPD projects in your tenant and can be configured for the work items in these projects.

- 1. Go to an IPD project and choose **Settings > Work**.
- 2. Click **Work Items** and select a work item type.
- 3. On the **Field Templates** tab page, click **Add Field**. In the displayed dialog box, select a new field, configure other options, and click **OK**.

# 7.2.2 Configuring Common Work Item Statuses

Customize common statuses that can be used by any type of work items in your project.

### Prerequisites

- An IPD-standalone software project is available, in which you have permission to **configure work item templates**.
- You have the tenant administrator permission.

## **Configuring Common Statuses in a Project**

Step 1 Access the CodeArts Req homepage.

- **Step 2** Go to a project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Work Items > Common Status**.
- **Step 4** Click **Create Status** under **Add Status**. In the displayed dialog box, set the required parameters.

Table	7-4	Creating	а	status
-------	-----	----------	---	--------

Parameter	Description
Name	Enter a maximum of 30 characters, including letters, digits, and hyphens (-).
Category	Category of the status. The options include <b>To Do</b> , <b>Doing</b> , and <b>Done</b> .
Description	Remarks about the status. Enter a maximum of 50 characters, including letters, digits, and hyphens (-).

#### Step 5 Click OK.

The new status is displayed at the end of the list. The parameters in this list are described in the following table.

 Table 7-5
 Status list

Paramete r	Description
Name	System or custom status name. Hover over the header and click to sort by status name.
Created By	The user who creates a status. Hover over the header and click to sort by creator.
Created	Time when a status is created. Hover over the header and click to sort by creation time.
Category	System or custom status category. The options include <b>To Do</b> , <b>Doing</b> , and <b>Done</b> . Hover over the header and click  to sort by status category. Hover over the header and click to filter statuses.
Status	Work item types that are currently using a system or custom status.
Descriptio n	System or custom status description.

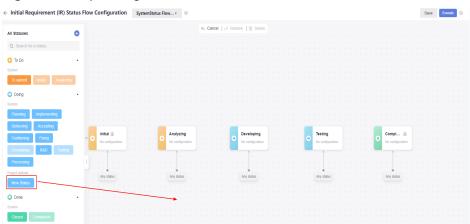
Paramete r	Description					
Operation	You can edit and delete a status.					
	To edit a status, click 🖉 in this column. NOTE					
	System statuses cannot be edited.					
	Custom statuses of the tenant cannot be edited here.					
	To delete a status, click 🔟 in this column.					
	NOTE					
	System statuses cannot be deleted.					
	<ul> <li>Custom statuses that are currently in use by work items cannot be deleted.</li> </ul>					
	Deleted statuses cannot be recovered.					

**Step 6** (Optional) Add a common status (for example, **CommonStatus01**) to the work item status flow.

The following uses the IR work item status flow as an example:

- Under Work Configuration, choose Work Items > Initial Requirement (IR)
   > Status Flows, and click Edit.
- 2. Click on the left, select **CommonStatus01** on the **All Statuses** panel, and drag it to the status flow canvas. Draw incoming and outgoing transition lines for the status, and click **Update Status Flow**.

#### Figure 7-3 Expanding all statuses



Check this CommonStatus01 status in IRs' status flows on the Work > Req > R&D Requirements page.

#### **NOTE**

- Customized common statuses can be configured and used for all types of work items of the current project.
- The IR work item status flow is used as an example. You can add common statuses to other work item templates in the same way, and only need to do this once for each of them.
- The total number of system and common statuses in a project cannot exceed 50.

----End

## **Configuring Common Statuses in Tenant Settings**

You can configure tenant-level common statuses for work items across all your IPD projects.

- **Step 1** Log in to the CodeArts homepage and click
- Step 2 Choose All Account Settings.
- Step 3 Choose Work > Status. The existing common statuses are displayed.
- **Step 4** Click **Create Status**. In the dialog box that is displayed, enter a status name, select a status category, and click **OK**. The new status is displayed in the list.

You can perform the following operations on a new status:

- Click 🖉 to modify the status name, category, and description.
- Click 🔟. In the dialog box that is displayed, click **OK** to delete the status.

**NOTE** 

Statuses created on the **Work** > **Status** page apply to all IPD projects in your tenant and can be configured for the work items in these projects.

- 1. Go to an IPD project and choose **Settings > Work**.
- 2. Click **Work Items** and select a work item type.
- 3. On the **Status Flows** tab, click **Edit**. Click I next to the system status flow currently in use to copy it to a custom status flow. On the custom status flow page, select the new status, click **Edit**, configure fields for the status, and click **Save**.

----End

# 7.2.3 Configuring Work Item Templates

Customize different types of work item templates, and specify whether to display each field on work item creation pages, whether these fields are mandatory, and what they are default to. These templates are used by default when you create work items.

# Prerequisites

- An IPD-standalone software project is available, in which you have permission to **configure work item templates**.
- You have the tenant administrator permission.

# **Configuring Field and Description Templates for RRs**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work**.
- Step 3 In the navigation pane, choose Work Items > Raw Requirement (RR) > Field Templates.
- **Step 4** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Required** column, specify whether each system or custom field must be set.
  - In the **Default Value** column, set a default value for each system or custom field.
- **Step 5** Click <sup>II</sup> on the left of each field to adjust their sequence.
- **Step 6** Choose **Work Items > Raw Requirement (RR) > Description Templates**. Then click **Edit**.

Customize the RR description template and click **Save**.

----End

## **Configuring Field and Description Templates for SFs**

- **Step 1** Go to a project and choose **Settings > Work**.
- Step 2 In the navigation pane, choose Work Items > System Feature (SF) > Field Templates.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click i on the left of each field to adjust their sequence.
- Step 5 Choose Work Items > System Feature (SF) > Description Templates. Then click Edit.

Customize the SF description template and click **Save**.

----End

# **Configuring Field and Description Templates for IRs**

- **Step 1** Go to a project and choose **Settings > Work**.
- **Step 2** In the navigation pane, choose **Work Items > Initial Requirement (IR) > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click Add Field to add a system or custom field. If needed, click Create Field to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- **Step 5** Choose **Work Items > Initial Requirement (IR) > Description Templates**. Then click **Edit**.

Customize the IR description template and click **Save**.

----End

# **Configuring Field and Description Templates for User Stories**

- **Step 1** Go to a project and choose **Settings > Work**.
- **Step 2** In the navigation pane, choose **Work Items > User Story (US) > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Default Value** column, set a default value for each system or custom field.
  - Set **Default Value** for system or custom fields.
  - In the **Baselined** column, specify whether to lock each system or custom field in the baseline.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.

#### **Step 5** Choose Work Items > User Story (US) > Description Templates. Then click Edit.

Customize the US description template and click **Save**.

----End

# **Configuring Field and Description Templates for Tasks**

- **Step 1** Go to a project and choose **Settings > Work**.
- **Step 2** In the navigation pane, choose **Work Items > Task > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click **Add Field** to add a system or custom field. If needed, click **Create Field** to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Required** column, specify whether each system or custom field must be set.
  - In the **Default Value** column, set a default value for each system or custom field.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- **Step 5** Choose **Work Items > Task > Description Templates**. Then click **Edit**.

Customize the task description template and click **Save**.

----End

# **Configuring Field and Description Templates for Bugs**

- **Step 1** Go to a project and choose **Settings > Work**.
- **Step 2** In the navigation pane, choose **Work Items > Bug > Field Templates**.
- **Step 3** Edit the field template as required.
  - Click Add Field to add a system or custom field. If needed, click Create Field to create one.
  - In the **Display During Creation** column, specify whether to show each system or custom field on the work item creation page.
  - In the **Required** column, specify whether each system or custom field must be set.
  - In the **Default Value** column, set a default value for each system or custom field.
- **Step 4** Click <sup>!!</sup> on the left of each field to adjust their sequence.
- **Step 5** Choose Work Items > Bug > Description Templates. Then click Edit.

Customize the bug description template and click Save.

----End

# 7.2.4 Configuring Work Item Status Flows

## Prerequisites

An IPD-standalone software project is available, and you have permission to **configure status flows** for the project.

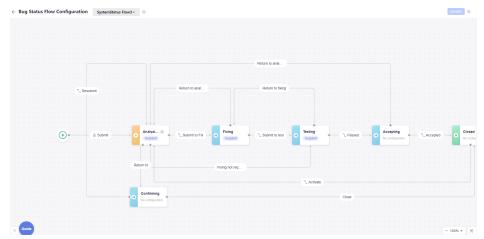
# **Configuring Work Item Status Flows**

You can customize the status sequence as required.

**NOTE** 

- This function is currently available for R&D requirements, system features, tasks, and bugs. The following describes how to customize a bug status flow.
- System status flows can only be viewed. You can copy them to customize a new one. Custom status flows can be edited and executed to meet your service requirements.
- If an R&D requirement is switched to a custom status flow, the rollup rule will automatically become invalid. Only when all types of work items of the R&D requirement are executed in the system status flow, the rollup rule will apply.
- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work**.
- **Step 3** In the navigation pane, choose **Work Items > Bug > Status Flows**.
- **Step 4** Click **Edit**. The **Bug Status Flow Configuration** canvas page is displayed with the default system status flow.

Figure 7-4 Bug status flow



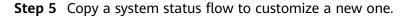
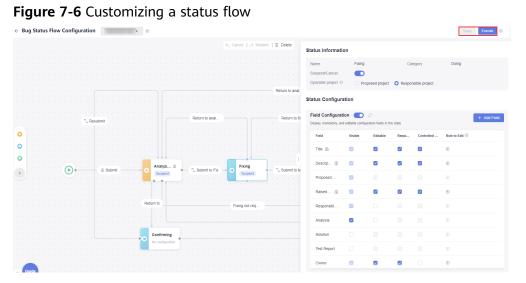
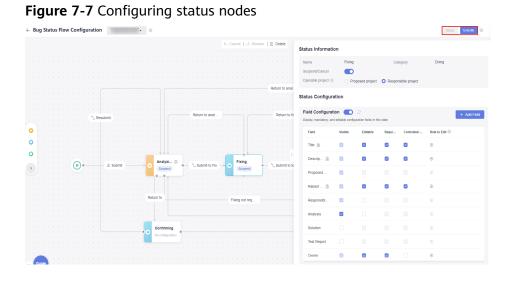


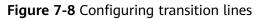
Figure 7-5 Copying to create a status flow

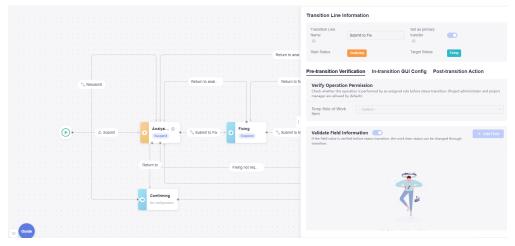
← Bug Status Flow Configuration	SystemStatus Flow3 -
	System Status Flows Custom Status Flows
	SystemStatus Flow3 Active Latest
	System   Published: Dec 12, 2023 00:00:00 GMT+08:00

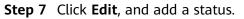


**Step 6** Click **Edit**, then double-click any status or transition line to display their rules.



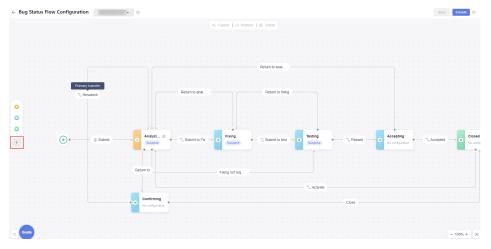




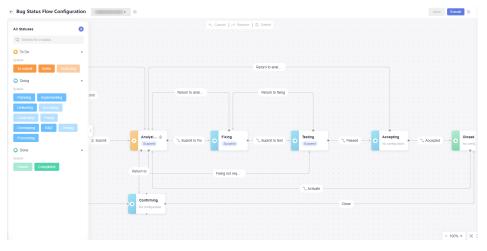


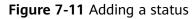
1. Expand the status drawer. Drag any available status to the canvas or click  $\bigcirc$  to add one.

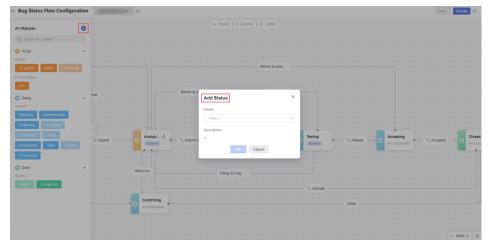
#### Figure 7-9 Expanding the status drawer



#### Figure 7-10 Expanded status drawer







Click the Name drop-down list, and then click Create Status.
 You can also select an existing tenant-level custom status.

#### Figure 7-12 Creating a status

×
^
Q

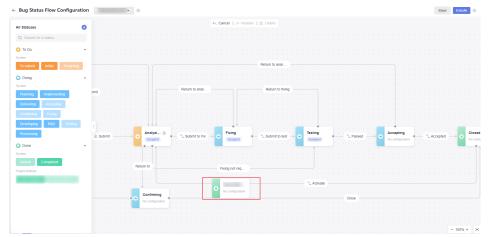
#### 3. Set **Name** and **Category**.

The options include **To Do**, **Doing**, and **Done**.

4. Click OK.

The new status is displayed on the bug status flow canvas.

#### Figure 7-13 Adding a status to a bug status flow



**Step 8** Drag the new status to a proper position, draw a transition line with your mouse, and enter a name.

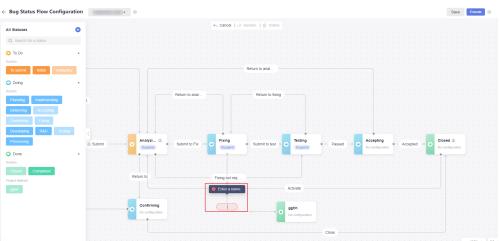


Figure 7-14 Adding a transition line for a new status

**Step 9** Double-click the new transition line.

#### Figure 7-15 Transition line configuration panel

#### Transition Line Information

Transition Line Name	Accepted	Set as primary transfer	
Start Status	Accepting	Target Status	Closed
Pre-transition Ve	rification In-tra	nsition GUI Config Pos	t-transition Action
Verify Operation Check whether this o manager are allowed	peration is performed by	an assigned role before status transiti	ion. (Project administrator and project
Temp Role of Wor Item	kSelect		~
Validate Field In If the field value is ve transition.		tion, the work item status can be char	+ Add Field

**Step 10** Set **Transition Line Name** and other information.

**Step 11** After the configuration is complete, click  $\searrow$  to collapse the panel.

Fransition Line	Information		
Transition Line Name	Return to analysis	Set as primary transfer	
Start Status	Fixing	Target Status	Analyzing
	on Permission	tion GUI Config Pos	st-transition Action
	on Permission operation is performed by an as	Ū	st-transition Action
Verify Operati Check whether this	on Permission operation is performed by an as d by default.)	Ū	
Verify Operati Check whether this manager are allowe Temp Role of Wo	on Permission operation is performed by an as d by default.) orkSelect	Ū	

**Figure 7-16** Collapsing the transition line configuration panel

The new status must have at least one incoming and one outgoing transition lines. To add a transition line, repeat steps **5** to **8**.

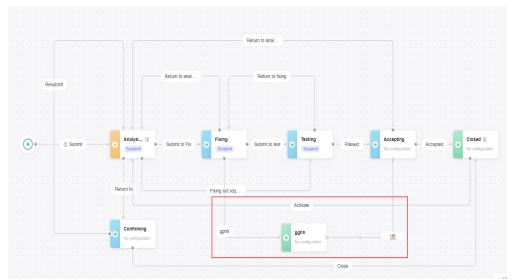
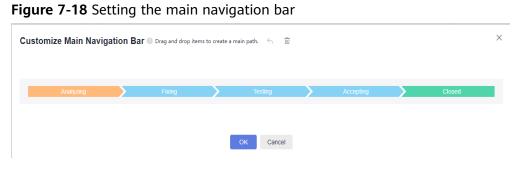


Figure 7-17 Adding incoming and outgoing transition lines

**Step 12** Click **Execute** in the upper right corner, and customize the main navigation bar.



#### Step 13 Click OK.

The new bug status flow is displayed on the **Status Flows** tab page.

Figure 7-19 Bug status flows

Field Templates	Status Flows	Description Templates	Navigation				Edit
Name		Category		Added by	Added	Description	
Analyzing		To Do		s System	Sep 13, 2024 16:39:34 GMT+		
Fixing		Doing		s System	Sep 13, 2024 16:39:34 GMT+		
Testing		Doing		s System	Sep 13, 2024 16:39:34 GMT+		
Accepting		Doing		s System	Sep 13, 2024 16:39:34 GMT+		
Confirming		Doing		s System	Sep 13, 2024 16:39:34 GMT+		
Closed		Done		S System	Sep 13, 2024 16:39:34 GMT+		
		Done		H	Sep 14, 2024 14:45:57 GMT+	1	

This status flow will be applied to the bug management process.

Figure 7-20 Status flow on the bug details page

Bug 1				
Analyzing	Fixing	aabbcc	Accepting	Closed

----End

# 7.2.5 Configuring Work Item Tags

Tags can be created, edited, and deleted for different types of requirements and work items in a project.

# Prerequisites

An IPD-standalone software project is available, in which you have permission to **manage tags**.

# Adding a Tag

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to a project and choose **Settings > Work > Tag Management**.

All work item tags are displayed here.

### Step 3 Click Create Tag.

Figure	7-21	Creating	a tag
		creating	auag

Tags			
+ Create Tag	Enter a keyword.	Q	
Title			
			×
		Create Tag	
		work item types	
		-Select-	<u> </u>
		Tag Name	
			vailable.
		Tag Color	
			•
		$\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$	•
		OK Cancel	

- **Step 4** Select a work item type and tag color, and enter a tag name.
- Step 5 Click OK.

The new tag is displayed in the list.

#### Figure 7-22 Tags page

Tags			
+ Create Tag Enter a keyword.	Q	The	e total number of tags is 3.
Title		Category	Operation
• 54t		Raw Requirements	Ø 🖞
• das		Raw Requirements	Ø 🖞
		Raw Requirements	0

#### **NOTE**

- Click  $\swarrow$  to change the tag name and color. The change is synchronized where the tag is referenced.
- Click  $\blacksquare$  to delete a tag. The tag is deleted from where it is referenced.

The tag also displays on the details page of each work item type (such as RR).

----End

# 7.2.6 Creating Work Item Modules

- You can add, modify, and delete work item modules in a project.
- You can add submodules to a module.
- When creating or editing a work item, you can specify the module to which the work item belongs.

# Prerequisites

An IPD-standalone software project is available, in which you have permission to **configure modules**.

## Creating a Module

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Modules**.
- Step 3 Click Create.

Figure 7-23 Creating a module

Modules			
+ Create			
🕂 Module 💿	Description 💿	Owner 🕤	Operation
Enter a name.	Enter a description.	×	OK Cancel

#### Step 4 Set Module, Description, and Owner.

The module name must be unique in the system.

- Step 5 Click OK.
- **Step 6** (Optional) Edit or delete a module, or add a submodule.
  - Click  $\angle$  to edit the module.
  - Click 🕮 to delete the module.
  - Click <sup>+</sup> to add a submodule. Each module can have a maximum of three levels, for example, Module1 > Submodule01 > Submodule001.

#### Figure 7-24 Adding a submodule

Modules + Create			
+ Module 💿	Description 💿	Owner 💿	Operation
🗆 new module01			2 + 1
😑 child module001			之 + 前
child module0002			2 🗓

----End

# 7.2.7 Creating Work Types

Work types include R&D design, backend development, frontend development, and more. You can customize your own work types and specify whether they are mandatory for work items.

# Prerequisites

An IPD-standalone software project is available, in which you have permission to **configure work types**.

# Creating a Work Type

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Work Types**.
- Step 3 Click Create.

#### Figure 7-25 Creating a work type

Work Types O Mandatory	
+ Create Q Enter a keyword.	
Work Type Name	Operation
	OK Cancel
R&D design	2 1

**Step 4** Enter a work type name.

The name must be unique in the system.

Step 5 Click OK.

You can select this work type when configuring workloads for work items.

-	@ Attachment 0	P Related Items 1	요 Review	() Workload	ФH	listory
	of Automnent o				0.1	listory
Add Wor	kload 🍥				×	
* Period						
Start date	-	End date		Weekends incl	uded	
* Workload						
Total ~	1			persor	n-day	
Work Type						
Select				^	Ø	7
UI desig	jn					ata avai
Meeting	J					
Genera	I					
Training	ļ					
Resear	ch			- I.		
Other						
Replace	ement leave					

Figure 7-26 Adding a workload

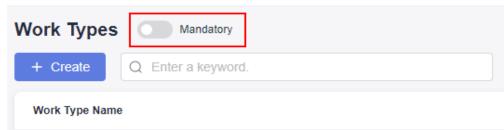
----End

## **Configuring Whether Work Types Are Mandatory**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Work Types**.
- Step 3 Toggle on Mandatory.

By default, this option is toggled off.

Figure 7-27 Configuring work types



A red asterisk (\*) will be displayed next to **Work Type** on the **Add Workload** page, indicating that the work type is mandatory.

Figure 7-28 Adding a workload

Details	Attachment 0	PRelated Items	s 2 🗳 Revie	ew 🕒 Worklo	ad 🕐 I	History
Add Wor	kload 🔘				×	
* Period						
Start date	-	End date		Weekends	included	
* Workload						
Total ~	1			pe	erson-day	
Work Type						1
Select					~ ©	
Work Conte	ent					
Max. 256	characters					
						ata a
		ОК Са	incel			

----End

# 7.2.8 Configuring Automatic Roll-up Rules

Project creators or roles with the automation configuration permission can enable or disable automation rules as required to implement automatic parent-child status roll-up or status transfer. Once a rule is enabled, all work items and users in the project can trigger the rule.

## **Prerequisites**

An IPD-standalone software project is available, in which you have the **Automation** permission.

### Procedure

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Access the project details page and choose **Settings > Work Item > Automation**. The **Automation** page is displayed.

#### Step 3 Click Automation Rules.

**Step 4** Set **Enable** to enable or disable the configured rule.

For example, if the status rollup of SF work items is enabled, when you change the status of all child work items of an unfinished SF work item in the **Work Item** > **Req > Feature Tree** list to **Completed**, the status of the SF work item is automatically rolled up to **Completed**.

**NOTE** 

- If all child work items of the parent item meet the rule condition and the target status of the parent item supports transition, the rule is applied.
- If the parent item has any child work items that do not meet the rule condition, when the rule is triggered, a record indicating no operation performed is generated and the parent item status is not transitioned.
- If there is no parent item, when the rule is triggered, a record indicating that no operation performed is generated and the parent item status is not transitioned.
- If the parent item transition status configured in the rule does not support transition, when the rule is triggered, a record indicating an execution error is generated and the parent item status is not transitioned.
- **Step 5** Go to the work item list. The SF status is automatically updated to **Completed**, and an automation rule operation record is added to the **History** tab page.

----End

# 7.2.9 Configuring Notifications

• You can determine whether to inform project members about various operations.

For example, a member is informed of an assigned work item.

• Notifications can be sent via direct messages or emails.

### Prerequisites

An IPD-standalone software project is available, in which you have permission to **configure notifications**.

### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** Go to a project and choose **Settings > Work > Notifications**.

#### Figure 7-29 Notifications page

Work Item Settings	Notifications					
	Raw Requirements System Features R&D Requirement	ents Tasks Defects Review	Others WeCom			
Q Search Keyword						
Basic Configuration	Event	Receiver			Direct Message	Email
Work Item Management	Create/Submit RR	🗌 Creator 🛛 🥑 Owner	Finder Recipient	🛛 cc		
Tag Management	Modify an RR	🗌 Creator 🛛 🥑 Owner	Finder Recipient	🗹 CC		
Modules	Delete an RR	🗹 Creator 🛛 🗹 Owner	Sinder Recipient	🕑 CC		
Downstream Projects	Change an RR	🗹 Creator 🛛 🗹 Owner	Sinder Recipient	🗹 CC		
Collaborate Downstream	Update a status	🗹 Creator 🛛 🗹 Owner	Sinder Recipient	🗹 CC		
Work Types	Comment on an RR	🗌 Creator 🛛 🥑 Owner	Finder Recipient	🗌 CC 🛛 🥑 @ed use		
Review						
Automation						
Notifications						
Import and export						

**Step 3** Select a work item type to configure notifications.

**Step 4** Select or deselect desired notification recipients and types.

After the setting is complete, the selected recipients will be notified when a corresponding event (for example, RR modification) occurs.

- **Direct Message**: When a member logs in to the homepage, they will see a number displayed next to  $\bigcirc$  in the upper right corner. They can click the icon to view notifications.
- **Email**: Project members who have an email address configured for their user and have enabled **Email Notifications** on the **This Account Settings** page will receive notification emails from the service.

----End

# 7.2.10 Viewing Work Item Import/Export Records

You can download the imported and exported work item files.

### Prerequisites

Some work items have been imported or exported in a project.

### **Viewing Export Records**

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to a project and choose **Settings > Work > Import/Export**.

#### Figure 7-30 Import and export records

Import/Ex	port Records ① Operation records of the last se	ven days are retained.				
Export Impo	ort					
No.	File Name	Туре 🍸	Operator T	Exported	Progress	Operation
0 1	IPD .xlsx	Raw Requirements		Sep 14, 2024 10:50:18 GMT+08:00	100%	$\downarrow$
					Total: 1 1/1	× <

**Step 3** Download the desired work items. All project members' export records of any types of work items will be displayed on this page.

----End

**NOTE** 

- Only the export records of the last seven days are retained.
- The project administrator can view the export records of all members in the current project.

## **Viewing Import Records**

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Go to an IPD-system device project and choose **Settings > Work > Import/Export**.

**Step 3** Download the desired work items. All project members' import records of any types of work items will be displayed on this page.

----End

**NOTE** 

- Only the import records of the last month are retained.
- The project administrator can view the import records of all members in the current project.

# 7.3 Creating and Managing RRs

# 7.3.1 RR Process

By default, the life cycle of an RR consists of the **Analyzing**, **Confirm**, **Planning**, **Implementing**, **Delivering**, **Accepting**, and **Closed** states. **Figure 7-31** shows the complete status transition process.

Figure 7-31 RR status transition flowchart

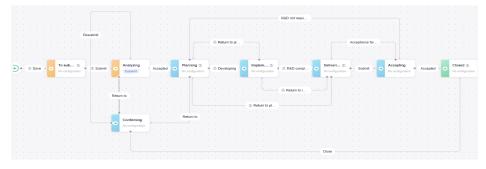


Table 7-6 lists the default operations in each RR state.

State	Description	
	When you create an RR, the status is by default after you save it as a draft.	
	The requirement proposer is by default the person who creates the requirement.	
Analyzing	After the RR is submitted, the state changes to <b>Analyzing</b> .	
	The requirement recipient can analyze whether to accept the requirement based on the requirement content. If not, the requirement can be returned or suspended.	
	After the requirement is returned, the state changes to <b>Confirming</b> . The requirement proposer can directly cancel the requirement or submit the requirement again.	

State	Description			
Planning	After the RR is accepted, the state changes to <b>Planning</b> .			
	The requirement recipient makes development plan on the requirement. If the requirement does not involve R&D, select <b>R&amp;D not required</b> , and the state of the requirement changes to <b>Accepting</b> .			
Implementi ng	After the R&D of the RR starts, the state changes to <b>Implementing</b> .			
	If there is any problem with the implementation solution, the requirement recipient can return the requirement to the planning phase.			
Delivering	After the R&D of the RR is completed, the state changes to <b>Delivering</b> .			
	If the delivery cannot meet the expectation, the requirement recipient can return the requirement to the planning or implementing phase.			
Accepting	After the RR is submitted for acceptance, the state changes to <b>Accepting</b> .			
	The requirement proposer checks whether the content of the requirement meets acceptance conditions. If not, select <b>Acceptance failed</b> and the state of the requirement goes back to <b>Delivering</b> .			
Closed	After the RR is accepted, the state changes to <b>Closed</b> .			

## 7.3.2 Creating RRs

Original problems or requirements described from the perspective of customers can be managed as RRs. By creating an RR, you can set the background, value, details, and priority of the requirement.

#### Prerequisites

An IPD-standalone software project is available, in which you have permission to **create and duplicate** RRs.

#### **Creating RRs**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, click **Raw Requirements**.
- Step 3 Click RR. On the RR page, set related parameters.

Table 7-7	' Creating	an RR
-----------	------------	-------

Parameter	Description		
Title	Name of an RR.		
Description	Enter the background, value, and details of the RR based on actual conditions. Use text, images, or links.		
Attachment	The maximum number of attachments for a raw requirement is 100, and the total size of them should be no more than 50 MB.		
Proposed Project	By default, it is the project to which the RR belongs and cannot be changed.		
Raised By	By default, it is the creator of the RR. Multiple creators can be selected.		
Responsible Project	<ul> <li>Project to which the RR belongs.</li> <li>If the current project is selected, this requirement is internal.</li> <li>If another project of the tenant is selected, the requirement is submitted to external parties.</li> <li>The current project is selected by default.</li> </ul>		
Recipient	Owner who undertakes the RR. If multiple recipients are selected, data will be synchronized based on the recipients' processing speed.		
Expected Completion	Expected completion time of the RR.		
Priority	Priority of an RR, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .		
Сору То	Other members of the project team.		

- **Step 4** Click **Submit**. The **Raw Requirements** page is displayed and "Request submitted successfully" is displayed in the upper right corner.
  - If you click **Save Draft**, the RR list is displayed. The requirement status is **To submit**.
  - If you click **Cancel**, the creation of the RR is cancelled.

The new requirement is displayed in the RR list, and the requirement state is **Analyzing**. If another project of the tenant is selected for **Responsible Project**, choose **Other Projects** to view the new RR.

#### D NOTE

After an RR is created, the people selected for **Raised By**, **Recipient**, and **Copy To** will receive email notifications and internal message notifications. If not, set notifications or modify notification settings. For details, see **Configuring Notifications**.

----End

#### **Related Operations**

You can perform the following operations on a new RR.

Operation	Description				
Modify RR title	Click 🖉 next to an RR title to modify it.				
Modify RR field	Click the target field value in the row of an RR to modify the value.				
Create child requirement	<ul> <li>Click <sup>C<sup>2</sup></sup> in the <b>Operation</b> column of an RR to break it down into child requirements.</li> <li>In the <b>Break Down Subrequirements</b> dialog box, click <b>Add Subrequirement</b> to create a child requirement. A maximum of 10 child requirements can be created at a time.</li> </ul>				
	<ul> <li>The project to which a child requirement belongs can be the current project or other projects of the tenant. To configure the project scope, choose Settings &gt; Work &gt; RR Downstream Projects.</li> </ul>				
Associate with child requirement	Click <i>O</i> in the <b>Operation</b> column of an RR to associate it with child requirements.				
Duplicate RR	Choose *** > <b>Duplicate</b> in the <b>Operation</b> column of an RR. The procedure for duplicating an RR is the same as that for creating an RR.				
View RR association map	Choose <b>***</b> > <b>Association Map</b> in the <b>Operation</b> column of an RR to view all data of its related items.				
Copy RR link	Choose *** > <b>Copy Link</b> in the <b>Operation</b> column of an RR to copy its title, ID, owner, status, and link to the clipboard.				

Operation	Description					
Migrate RR	Choose *** > <b>Migrate</b> in the <b>Operation</b> column of an RR to migrate it to other projects.					
	NOTE					
	RRs in draft state cannot be migrated.					
	• After the requirement is migrated to another project, the system automatically removes the tag of the RR and disassociates the RR from the associated work item.					
	• After the migration, the RR will be re-executed. The system will automatically clear the actual workloads, retain only the fields of the same type as the original work item, and remove redundant fields.					
Delete RR	Choose <b>***</b> > <b>Delete</b> in the <b>Operation</b> column of an RR to delete it.					
	NOTE					
	• RRs that are being reviewed or in progress cannot be deleted.					
	• If a drafted RR is deleted, it is permanently deleted.					
	• RRs in the <b>To Do</b> state can be deleted only in the proposing project. RRs in the <b>Done</b> state can be deleted in both the proposing project and the responsible project.					
	• If an RR of a proposing project is deleted, it is permanently deleted. If an RR of a responsible project is deleted, it is moved to the project's recycle bin.					
	• RRs in the recycle bin can be restored or permanently deleted. After being restored, RRs restore to their original status. Data in the recycle bin will be permanently deleted in 30 days.					

## 7.3.3 Managing RRs

After creating an RR (see **Creating RRs**), you can perform the operations described in this section on it.

#### Prerequisites

You have created an RR in an IPD-standalone software project and have permissions on the RR in the project.

#### On the RR List Page

Go to the project homepage, choose **Work > Req > Raw Requirements**, and perform the following operations.

#### Figure 7-32 RR list

Homepage	/ IPD项目 Free Trial / Work								
Raw Requirements Feature Tree R&D Requirements Tasks Defects Review Statistics Plans 😳 Feedback 🗑 Recycle Bin								icle Bin	
This Project	Other Projects + RR Unfinished • Q Status:To submit   Analyzing   F	lan X Add filters.						XDE	
08	E Title 💿 🝸	Status 🕒 🍸	Priority 🕒 🕇	Collaboration Status	Days Idle 🕒 🍸	Responsible Pro	Owner T	Operation	Ō
	RR PQWEOCKALD RR202409920722516	Analyzing	Medium	**	0 day	IPD项目	hwstaff_p_P	¢ 0 ···	
	RR-协同 RR20240913717073	To submit	Medium	Received	5 days	IPD项目	hwstaff_p_P	● ※ …	
	RR KKKKKKK RR20240911718244 (2011)	Planning	Medium	Assign	0 day	IPD项目	hwstaff_p_P	€°, ⊘ …	

Operation	Procedure
Query RR	By adding filters
	1. Click the search box in the RR list and select one or more filters to search for RRs.
	2. To clear all filters and display all data, click $^{ imes}$ on the right of the search bar.
	By using a saved view
	<ol> <li>Click the search box in the RR list and select one or more filters.</li> </ol>
	2. Click 🖾 on the rightmost of the search bar, and enter a view name.
	3. Click <b>OK</b> . The created view is displayed next to <b>RR</b> .
	<ol> <li>You can select the name of the created view to query the RRs that meet the search criteria.</li> </ol>
	Views can be shared with others, modified, and deleted.

#### Table 7-9 Management operations in the RR list

Operation	Procedure					
Import work	Use the provided template to import requirements in batches.					
items	1. In the RR list, click <sup>•••</sup> on the right of the search bar and select <b>Import</b> .					
	<ol> <li>In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>RR</b>) + <b>Template</b>.</li> </ol>					
	<ol> <li>Fill in the fields on the RR - Requirements sheet.</li> <li>For details about how to set parameters, see the RR - Impor Rules sheet in the template file.</li> </ol>					
	4. Drag or click $\square$ to select a file to be imported.					
	5. Click <b>Import</b> . The import progress dialog box is displayed.					
	• After the import is successful, you can view the imported requirement information in the RR list.					
	<ul> <li>If the import fails, a message is displayed in the upper right corner of the page. Click View Failure Details in the message to view the failure details. You can modify the requirement information based on the details and import the template again.</li> <li>NOTE</li> </ul>					
	For details about operations on import records, see Viewing Work Item Import/Export Records.					
Export work	Export requirements in batches to an Excel file.					
items	1. Export some or all RRs.					
	• Export all: On the <b>Raw Requirements</b> page, click … on the right of the search bar and choose <b>Export</b> . The <b>Select Fields to Export</b> dialog box is displayed.					
	• Export some: In the RR list, select one or more RRs to be exported and click <b>Export</b> at the bottom of the page. The <b>Select Fields to Export</b> dialog box is displayed.					
	2. Select the fields to be exported and determine whether to export child requirements.					
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the RRs are exported, the RR file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>					
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.					

Operation	Procedure
Configure fields to display	<ul> <li>Click <sup>(1)</sup> next to the <b>Operation</b> field.</li> <li>On the left of the pop-up box, select the fields to be displayed in <b>Available</b>.</li> </ul>
	<ul> <li>On the right of the pop-up box, drag the fields in Selected to adjust the display sequence.</li> </ul>

#### On the RR Details Page

On the details page of an RR, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

#### Figure 7-33 RR details page

RR20240920722516 created at Sep 20, 2024 11:45:02 GMT+06:00 Tag + Suspen	d	Return to Acc	epted -	<sub>e</sub> a ×
RR PQWEOCKALD				
To submit Analyzing Planning Implementing Delivering		Accepting		Closed
Details				
Description d	Edit	* Status	Analyzing	
	:3	Proposed Pro	IPD:	
DFSF		* Raised By		
fDFG		* Responsible	IPD:	
[ ]		Recipient		
GDDS		* Owner		
		Expected Co	Select	
		* Priority	Medium	
tomments All *	15	Planned Com	Select	
Enter a comment. Use @ to notify others.		Planned 🛞	Required.	
		Sum Actu 🔘		
		Сору То	Select	

Operatio n	Procedure	Remarks
Edit work item	On the RR details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop-down list. The modification is saved immediately.	You must have permission to <b>edit</b> RRs.

Operatio n	Procedure	Remarks
Change work item status	Go to the work item details page and click the transition button in the upper right corner to transition the work item to the target status. For details about status transition, see <b>Table 7-6</b> .	You must have permission to <b>set</b> <b>statuses</b> for RRs.
Upload attachme nt	<ul> <li>Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.</li> <li>1. Go to the work item details page, and click the <b>Attachment</b> tab.</li> <li>2. Click the box to select a local file or drag the file here to upload it as an attachment for the work item. Local files can be directly dragged to the text box. When the upload progress reaches 100%, the</li> </ul>	You must have permission to <b>upload</b> <b>attachmen</b> <b>ts</b> for RRs.
	<ul> <li>system displays a message indicating that the attachment is uploaded successfully.</li> <li>Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.</li> <li>Click i to download the file.</li> </ul>	
	<ul> <li>Click is to delete the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks
Add and check	A work item can be associated with other types of work items in a project.	You must have
related items	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permission to <b>deliver</b> assignme
	Figure 7-34 Related items	t, break down/ associate
	IDetails @ Attachment 0 <u></u> Pelated Items 1	dissociate
	> Subrequirement(0)   C. Break Down @ Associate	requirem nts,
	> Related Upstream Requirements(0)	create/
	Related Downstream Requirements(1)     Distribute Requirement     Associate Work Item(0) + Create      Existing	associate dissociate work
	> Files (0)   @ Associate	items, associate
	> Wiki(0)   Ø Associate	dissociate
	2. Complete association.	files, and associate
	coordinated from upstream projects. The upstream requirement information is displayed in the current project only when this project is selected as the responsible project for the created <b>Related Downstream</b> <b>Requirements</b> in the RR of another project.	<b>wikis</b> for RRs.
	Assume that the name of the current project is "IPD Project" and that of another project is "IPD Project 2". The method of synchronizing upstream requirement information is as follows:	
	1. Create a project named "IPD Project 2".	
	2. Create an RR named "RR-IPD2" in <b>IPD Project</b> <b>2</b> .	
	3. After the RR is created, enter its details page.	
	<ol> <li>Choose Related Items &gt; Related</li> <li>Downstream Requirements and click</li> <li>Distribute Requirement.</li> </ol>	
	5. Set <b>Responsible Project</b> to <b>IPD-Project</b> and the raw requirement name to <b>RR-Synergy</b> .	
	6. After the assignment, click the requirement title "RR-Synergy" to access "IPD Project" where this requirement is located. On the RR-Synergy details page, choose <b>Related Items &gt; Related</b> <b>Upstream Requirements</b> to view the	
	corresponding requirement information.	

Operatio n	Procedure	Remarks
	In the RR list, <b>Collaboration Status</b> of the RR- Synergy requirement is <b>Received</b> in orange, and <b>Status</b> is <b>Analyzing</b> .	
	Figure 7-35 RR list	
	$ \begin{array}{                                    $	
	<b>NOTE</b> Different colors of <b>Received</b> indicate different meanings.	
	Received : Before a requirement is accepted, the color of <b>Received</b> is orange. Received : After a requirement is accepted, the color of <b>Received</b> turns green.	
	Received : After a requirement is	
	<ul> <li>rejected, the color of Received turns red.</li> <li>Related Downstream Requirements: requirements assigned to downstream projects. A maximum of 10 requirements can be assigned at a time. One requirement is displayed by default and cannot be deleted.</li> <li>Click Distribute Requirement. The Distribute</li> </ul>	
	<ul> <li>Requirement dialog box is displayed.</li> <li>2. Configure the information about requirement assignment. The current project cannot be selected for Responsible Project. If only the current project exists in the system and no value is available for this parameter, requirement assignment cannot be performed.</li> </ul>	

Operatio n	Procedure	Remarks
	Figure 7-36 Requirement assignment	
	Distribute Requirement	c
	+ Add	
	• Raised By Expected CoSelect-	
	Responsible IPD     V     Recipient	
	Priority     Medium     V	
	3. After configuring the requirement assignment information, click <b>OK</b> . Click the requirement title "RR-test" to access "IPD Project 2" where this requirement is located.	
	In the RR list, <b>Collaboration Status</b> of the requirement is <b>Delivered</b> in orange.	
	<b>NOTE</b> Different colors of <b>Assign</b> indicate different meanings.	
	Assign : If the current requirement has unprocessed downstream collaboration requirements, the color of <b>Assign</b> is orange.	
	Assign : After all downstream collaboration requirements under the current requirement are accepted, the color of <b>Assign</b> turns green.	
	Assign : If the current requirement has returned downstream collaboration requirements, the color of Assign is red.	
	• <b>Subrequirement</b> : child work items broken down from the current work item. The operations vary according to the state. Perform operations based on the functions displayed on the page and the actual project situation.	
	Click <b>Break Down</b> to add a child requirement.	
	Each requirement can be broken down into a maximum of 10 child requirements at a time. One child requirement is displayed by default and cannot be deleted. Click 🔟 to expand and configure more information.	
	After the child requirements are created, you can check and edit them on the <b>R&amp;D Requirements</b> tab.	

Operatio n	Procedure	Remarks
	• Associate Work Item: associated work items of other types in the project. The operations vary according to the state. Perform operations based on the functions displayed on the page and the actual project situation.	
	<ul> <li>Features, tasks, and bugs can be associated.</li> <li>Files: raw requirement files. Select a file associated with the current requirement. You can upload a local file.</li> <li>Wiki: raw requirement wikis.</li> </ul>	
	Select a wiki associated with the current requirement. You can create a wiki.	
Check review record	<ul> <li>You can check the review records related to requirements only in the following situations:</li> <li>When you modify the controlled content of an RR, a change process is automatically triggered. Only then will you be able to view the review record in</li> </ul>	You must have permission to <b>view</b> RRs.
	<b>Review</b> of the corresponding requirement details page. When you click an RR in the <b>Confirm</b> , <b>Planning</b> , or <b>Implementing</b> state and modify controlled fields	
	with 🙆 on the details page, a dialog box is displayed, indicating that the change approval process is required.	
	• You can view the review records in <b>Review</b> of the corresponding requirement details page only when the requirement has general review records.	

Operatio n	Procedure	Remarks
Add workload	<ol> <li>Go to the details page of a work item and click Workload.</li> </ol>	You must have
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>
	3. Enter the workload information.	person- hours for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	RRs. Workloads
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	can be edited and deleted by
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	the creator.
	<ul> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul>	By default, the project administrat or can edit and delete all
	<ol> <li>Click OK. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	workloads.
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload adding.	You must have permission
	1. Go to the work item details page.	to <b>view</b> RRs
	2. Click the <b>History</b> tab.	<u>Г</u> .Т.Т.
	<ul> <li>Click I or T to check historical records in the ascending or descending order of operation time.</li> </ul>	
	<ul> <li>You can set search criteria to query historical records that meet the search criteria.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> </ol>	You must have permission
	<ol> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> </ol>	to <b>edit</b> RRs.
	3. Click <b>OK</b> . The new tag is displayed next to the requirement ID in the RR list.	
	4. (Optional) Hide a tag.	
	<ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul>	
	Figure 7-37 Hiding a tag - 01	
	Tag 🕂 🤄 🤅 Break Down Subrequ	
	Q Enter a keyword.	
	Plann • xuqiu1	
	+ Create Tag	
	<ul> <li>Move the cursor to the tag name and click is to hide the tag.</li> </ul>	
	Figure 7-38 Hiding a tag - 02	
	Tag + • xuqiu1 • xuqiu1	
	NOTE If you need to add tags for multiple RRs, you can select the desired RRs in the RR list, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the <b>Details</b> tab page, click the <b>Comments</b> text box.</li> <li>Figure 7-39 Adding a comment</li> </ol>	You must have permission to <b>view</b> RRs.
	Coments All + ほ ・ ほ こ こ こ の で た い Enter a comment. Use @ to notify others.	
	<ol> <li>Enter a comment.</li> <li>You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> </ol>	
	4. Click <b>Submit</b> . Submitted comments can be replied, edited, pinned to the top, and deleted.	

# 7.4 Creating and Managing Feature Trees and System Features

## 7.4.1 Creating a Feature Tree

The system provides multiple methods for creating a feature tree, including inheriting the feature tree from another project, directly creating a feature tree, and importing an Excel file.

You can create a feature tree by inheriting or importing one only when there is no feature tree in the current project.

#### Prerequisites

- An IPD-standalone software project is available, in which you have permission to **create** feature sets.
- An IPD-standalone software project is available, in which you have permission to **inherit** feature sets.
- An IPD-standalone software project is available, in which you have permission to **import** feature sets.

#### Creating a Feature Set

Step 1	Access the CodeArts Req homepage.	
Step 2	On the project homepage, choose <b>Feature Tree</b> .	
Step 3	Click • . The <b>Create Feature Set</b> dialog box is displayed. <b>Figure 7-40</b> Creating a feature set	
	Create Feature Set	$\times$
	* Title	
	Title	
	OK Cancel	
	L .	
Step 4	Set <b>Title</b> .	

Step 5 Click OK.

You can view the new feature set in the feature tree list.

----End

#### Inheriting a Feature Tree

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, choose Feature Tree.
- Step 3 Click Inherit Feature Tree. The Inherit Feature Tree dialog box is displayed.

Figure 7-41 Inheriting a feature tree

Inherit Feature Tree		$\times$	
* Source Proje	ect		
			•
	ок	Cancel	

- **Step 4** Select a project for which a feature tree has been configured. The feature tree and all included system features of the selected project can be inherited to the current project.
- Step 5 Click OK.

In the feature tree list, you can view the feature tree inherited from another project.

----End

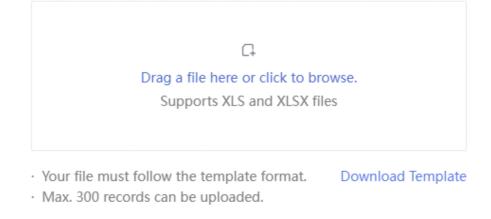
#### Importing a Feature Tree

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, choose Feature Tree.
- Step 3 Click Import Feature Tree. The Import dialog box is displayed.

Figure 7-42 Importing a feature tree

Import

 $\times$ 





- Step 4 Click Download Template. The import template file is displayed in the upper right corner of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: *Project name* + "-" + *Module name* (for example, Feature) + Template.
- **Step 5** Set the fields in the **SF List** sheet of the template. For details about how to set parameters, see the **SF Import Rules** sheet in the template.
- **Step 6** Drag or click <sup>C</sup> to select a file to be imported.
- Step 7 Click Import.

You can view the imported feature sets in the feature tree list.

----End

#### **Related Operations**

You can perform the following operations on a new feature set.

Operation	Description
Create child feature set 1. Click + next to the target feature set. The <b>Create</b> <b>Feature Set</b> dialog box is displayed. 2. Set <b>Title</b> .	
	<ol> <li>Set Title.</li> <li>Click OK. You can view the new second-level feature set in the corresponding feature set.</li> </ol>
	Figure 7-43 Child feature sets
	Raw Requirements Feature Tree R&D F
	Current Version •
	Q Search by keyword.
	- IPD- +
	You can create third-level feature sets for a second-level one. A maximum of 10 levels of feature sets are supported. The child feature sets can be edited and deleted.
Edit feature set	Click •••• on the right of the target feature set, and click <b>Edit</b> to edit the title.

Table 7-11 Basic operations on a feature set

Operation	Description
Delete feature set	<ol> <li>Click •••• on the right of the target feature set, and click <b>Delete</b>.</li> </ol>
	Figure 7-44 Deleting a feature set
	🛕 Warning X
	Do you want to delete this requirement? Deleted data
	can be restored in the recycle bin. Hints: After the deletion, the labor hour data will be deleted accordingly.
	Delete Cancel
	<ol> <li>Click <b>Delete</b>. The deleted feature set and its child feature sets will not be display on the page.</li> </ol>
	<b>NOTE</b> Deleted feature sets can be restored or permanently deleted from the recycle bin.

## 7.4.2 Managing a Feature Tree

After creating a feature tree (see **Creating a Feature Tree**), you can perform the operations described in this section on it.

#### Prerequisites

You have created a feature set in an IPD-standalone software project, and have feature set permissions for the project.

#### Procedure

On the project homepage, choose **Work > Req > Feature Tree**, and perform the following operations.

#### Figure 7-45 Feature tree list

Homepage / IPD-	/ Work									
Raw Requirements Feature Tree	R&D Requireme	nts Tasks Defects Review St	latistics Plans					😳 Fee	dback 📋	Recycle Bir
Current Version 🔹 💿 🔅	··· 🗎 IPC	FS20240913717182	+ SF All • Q Add	fiters.						•••
Q Search by keyword.	•	🕂 Title 🐵 🍸		Status 🕒 T	Feature Set 😑	Priority 🕒 🝸	Owner 🕒 🝸	Planned 💿	Operation	•
	+	SF 99999999 SF20240918720963		Initial	IPD-	Medium	hwstaff_p		{° ∉	
-		SF SF20240918722022		Initial	IPD-	Medium	hwstaff_p		€ ⊞	
		SF 04dddddddd SF20240918720563		Initial	IPD-	Medium	hwstaff_p	-	(° ∄	,
		SF20240918720296		Initial	IPD-	Medium	hwstaff_p	-	(; ∉	,
		SF20240918720295		Initial	IPD-	Medium	hwstaff_p	-	(; ∄	,
		SF20240918721348		Initial	IPD-	Medium	hwstaff_p		(° ∄	,
		SF 8520240918721921		Initial	IPD-	Medium	hwstaff_p		(°, ⊞	,
		+ SF I SF20240918720555		R&D	IPD-	Medium	hwstaff_p		(; ∄	,

Operation	Procedure
Search for feature set	<ol> <li>On the project homepage, choose Feature Tree.</li> <li>Enter a keyword in the search box to search for the target feature set.</li> </ol>
Associate system feature with feature set	<ul> <li>You can create system features or associate existing ones with a feature tree. System features of the same type can be put in the same feature tree for easy management.</li> <li>Creating a system feature</li> </ul>
	<ol> <li>Click the name of the feature set to associate a system feature.</li> <li>Click SF.</li> </ol>
	<ol> <li>Enter system feature information. For details, see Procedure.</li> </ol>
	<ol> <li>Click <b>OK</b>. The new system feature is displayed under the corresponding feature set.</li> </ol>

#### Table 7-12 Managing a feature tree

Operation	Procedure					
Create feature tree baseline snapshot	You can create a baseline based on the current feature tree version.					
	1. On the project homepage, choose <b>Feature Tree</b> .					
Shapshot	2. Click <sup>1</sup> . The <b>Feature Tree Version Snapshot</b> dialog box is displayed.					
	Figure 7-46 Creating a feature tree snapshot					
	Feature Tree Version Snapshot $\qquad  imes$					
	After the snapshot of the property tree version is complete, you can view the contents of the snapshot after switching to the historical version.					
	* Name					
	1					
	OK Cancel					
	<ul> <li>3. Enter a snapshot name.</li> <li>4. Click OK. Viewing the snapshot record of the feature tree version: By default, the current version is displayed. Click </li> <li>on the right and select the version to be viewed. The snapshot of the corresponding version is displayed.</li> </ul>					
	Figure 7-47 Viewing feature tree version snapshots					
	Current Version 🔹 💿 🛄 …					

Operation	Procedure						
Compare	You can compare feature tree snapshots of different versions.						
feature tree version	1. On the project homepage, choose <b>Feature Tree</b> .						
snapshots	2. Click 🛄 . The snapshot comparison page is displayed.						
	3. Select the baseline snapshot version to be compared.						
	<ul><li>4. Click the name of the system feature to be compared. The system feature comparison page is displayed.</li><li>If a system feature is snapshotted for multiple times based on the feature tree, multiple versions will be generated. You can select and compare different versions.</li></ul>						
	To compare system feature versions, check historical versions on the <b>Feature Tree</b> page.						
	1. On the project homepage, choose <b>Feature Tree</b> .						
	2. Click the names of the system features to be compared. The version comparison page is displayed.						
	• If a system feature is snapshotted for multiple times on the <b>Feature Tree</b> page, multiple versions will be generated. You can select and compare different versions.						
Import	Use the provided template to import a feature tree.						
feature tree	1. On the project homepage, choose <b>Feature Tree</b> .						
	2. Click *** on the right of <b>Current Version</b> , and select <b>Import</b> <b>Feature Tree</b> .						
	3. In the displayed dialog box, click <b>Download Template</b> .						
	4. Set the fields in the template. For details, see the import description in the template file.						
	5. Select the file to be imported.						
	6. Click <b>Import</b> and complete the import as prompted.						
Export	Export a feature tree with desired fields to an Excel file.						
feature tree	1. On the project homepage, choose <b>Feature Tree</b> .						
	2. Click *** on the right of <b>Current Version</b> , and select <b>Export</b> <b>Feature Tree</b> .						
	3. In the displayed dialog box, select fields to be exported.						
	<ol> <li>Click Export.</li> <li>After the fields are exported, the file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>						

## 7.4.3 System Feature Status Transition Process

The entire lifecycle of a system feature consists of the **Initial**, **R&D**, and **Completed** states. **Figure 7-48** shows the complete status transition process.



Figure 7-48 System feature status transition process

 Table 1 describes operations in each state.

Table 7-13 Operation description

Status	Description
Initial	When a system feature is created, the state is <b>Initial</b> by default.
R&D	After the system feature in the <b>Initial</b> state is handled, the state changes to <b>R&amp;D</b> .
Completed	After the system feature is developed, the state changes to <b>Completed</b> .

## 7.4.4 Creating System Features

Major capabilities of offering requirements or services to support a problem (PB) can be managed in system features. When creating a system feature, you can set its background, value, details, and priority.

#### Prerequisites

An IPD-standalone software project is available, in which you have permission to **create and duplicate** feature sets.

#### Procedure

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, choose Feature Tree.
- **Step 3** Click **SF**. On the **SF** page, set related parameters.

Table 7-14 System feature parameters
--------------------------------------

Paramete r	Description
Tag	When creating or editing a work item, you can add a customized tag.
	Tag names can be marked in different colors.

Paramete r	Description
Title	Name of a system feature.
Descriptio n	Enter the background, value, and details of the feature based on project requirements.
	The description can include text, images, or links.
Attachme nt	A maximum of 100 attachments can be added to a system feature, and the total capacity is 50 MB.
Responsib le Project	Project that the system feature belongs to. The value cannot be changed.
Owner	Owner of the system feature. Only one owner can be selected. The default owner is the creator.
Feature Set	The feature set to which the system feature belongs is a home structure of the feature tree.
	This parameter has a value only after the operations in <b>Creating a</b> Feature Set are completed.
	The parameter value can be empty. You can associate the parameter with the corresponding system feature after creating a feature tree.
Priority	Priority of the system feature, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Planned Start	Planned start time.
Planned Completio n	Planned completion time. It cannot be earlier than the planned start time.
Planned Workload	Planned workloads.
High Value	Whether the system feature is a key feature. The value can be <b>Yes</b> or <b>No</b> .
Used For	Scenario with a maximum of 512 characters.
Domain	Domain to which the system feature belongs. The options include software and hardware, hardware, performance, operations, and user experience. Select one based on the system feature.
Сору То	Person to whom the system feature is copied.

**Step 4** Click **OK**. The feature tree page is displayed. A message indicating SF created is displayed in the upper right corner.

The new system feature is displayed in the feature tree, and the system feature state is **Initial**.

Figure 7-49 Feature tree

Homepage / IPD	e Trial / Wo	rk													
Raw Requirements Fea	ature Tree	R&D Re	equirement	s	Tasks Defects Review	Statistic	s Plans						😳 Fe	edback 📋 I	Recycle Bir
Current Version •	ō ()		IPD		FS20240920721957	+ SF	All •	Q Add filters.							•••
Q Search by keyword.		Ð		Title	0 T				Status 🖨 T	Feature Set 🕒	Priority 🕒 🕇	Owner 🕒 T	Planned 🕒	Operation	o
IPD.		+		SF	G FHG D HDFHGDFG SF20240920721581				Initial	IPDI	Medium		-	¢ 🗊	
555	+			SF	HGHDFGSF SF20240920722413				Initial	IPDI	Medium		-	¢ 🗊	
				SF	GHDSGTDS SF20240920722614				Initial	IPDI	Medium			\$ ⊕	

#### 

After a feature is created, the people selected for **Owner** and **Copy To** will receive email notifications and internal message notifications. If not, set notifications or modify notification settings. For details, see **Configuring Notifications**.

----End

#### **Related Operations**

You can perform the following operations on a new system feature.

Operation	Description
Modify system feature title	Click 🖉 next to a system feature title to modify it.
Modify system feature field	Click the target field value in the row of a system feature to modify the value.
Create child requirement	Click $\overset{\mathbb{C}^{\circ}}{\leftarrow}$ in the <b>Operation</b> column of a system feature to break it down into child requirements.
	• In the <b>Break Down Subrequirements</b> dialog box, click <b>Add</b> <b>Subrequirement</b> to create a child requirement. A maximum of 10 child requirements can be created at a time.
Duplicate system feature	Choose *** > <b>Duplicate</b> in the <b>Operation</b> column. This process is the same as that of creating a feature.
View system feature association map	Choose <b>***</b> > <b>Association Map</b> in the <b>Operation</b> column of a system feature to view all data of its related items.
Copy system feature link	Choose <b>Copy Link</b> in the <b>Operation</b> column of a system feature to copy its title, ID, owner, status, and link to the clipboard.

Table 7-15 Basic system feature operations

Operation	Description
Delete system feature	<ul> <li>Choose &gt; Delete in the Operation column of a system feature to delete it.</li> <li>NOTE</li> <li>System features in change or baseline review cannot be deleted.</li> <li>Once deleted, a system feature is moved to the recycle bin. System features in the recycle bin can be restored or permanently deleted. After a system feature is restored from the recycle bin, it restores to the original status.</li> </ul>
Batch operations	Select multiple system features and perform the following operations: Baseline Cancel baseline Change Baseline review Edit Suspend Cancel suspension Export Delete

## 7.4.5 Managing System Features

After creating a system feature (see **Procedure**), you can perform the operations described in this section on it.

#### Prerequisites

You have created a feature in an IPD-standalone software project, and have feature permissions for the project.

#### Managing System Features on the System Feature List Page

Go to the project homepage, choose **Work > Req > Feature Tree**, and perform the following operations.

#### Figure 7-50 System feature list page

IPD-	FS20240913717182 + SF All•	Q Add filters.					
	+ Title 💿 🔻	Status 🕒 T	Feature Set 🔘	Priority 🕒 T	Owner 🕒 🕇	Planned 🕒	Operation
	SF) 999999999 SF20240918720963	Initial	IPD-	Medium	hwstaff_p		ে ⊕ …
	SF) SF20240918722022	Initial	IPD-	Medium	hwstaff_p		ে ⊕ …
	SF) ddddddddd SF20240918720563	Initial	IPD-	Medium	hwstaff_p		ে ⊕ …
	SF) sF20240918720296	Initial	IPD-	Medium	hwstaff_p		ে ⊕ …
	SF) hhhhhh SF20240918720295	Initial	IPD-	Medium	hwstaff_p		¢ ⊕ …
	SF 9999999 SF20240918721348	Initial	IPD-	Medium	hwstaff_p		¢ 🗊 …
	SF 333333 SF20240918721921	Initial	IPD-	Medium	hwstaff_p		¢ ⊕ …
		R&D	IPD-	• Medium	hwstaff_p		¢ ⊕ …

#### Table 7-16 Management operations in the system feature list

Operation	Procedure	Remarks
Query feature	<ul> <li>By adding filters</li> <li>Click the search box in the feature list and select one or more filters to search for system features.</li> <li>To clear all filters and display all data, click ×</li> </ul>	You must have permissio n to <b>view</b> features.
	<ul><li>on the right of the search bar.</li><li>By using a saved view</li></ul>	
	<ol> <li>Click the search box in the system feature list and select one or more filters.</li> </ol>	
	<ol> <li>Click <sup>II</sup> on the rightmost of the search bar, and enter a view name.</li> </ol>	
	<ol> <li>Click OK. The created view is displayed next to the SF button.</li> </ol>	
	<ol> <li>Select the created view to query the system features that meet the search criteria.</li> <li>Views can be shared with others, modified, and deleted.</li> </ol>	

Operation	Procedure	Remarks
Import work	Use the provided template to import system features in batches.	You must have
items	<ol> <li>In the system feature list, click *** on the right of the search bar, and select Import SF.</li> </ol>	permissio n to <b>import</b>
	<ol> <li>In the displayed dialog box, click Download Template.</li> <li>The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module</i></li> </ol>	features.
	<ul> <li><i>name</i> (for example, Feature) + Template.</li> <li>3. Set the fields in the SF - List sheet of the template. For details about how to set parameters, see the SF - Import Rules sheet in the template file.</li> </ul>	
	4. Drag or click $\Box$ to select a file to be imported.	
	5. Click <b>Import</b> . The import progress dialog box is displayed.	
	<ul> <li>After the import is successful, you can view the imported requirement information in the system feature list.</li> </ul>	
	<ul> <li>If the import fails, a message is displayed in the upper right corner of the page. Click View</li> <li>Failure Details in the message to view the failure details. You can modify the requirement information based on the details and import the template again.</li> </ul>	
	NOTE For details about operations on import records, see Viewing Work Item Import/Export Records.	

Operation	Procedure	Remarks
Export work items	<ul> <li>Export system features in batches to an Excel file.</li> <li>1. Export some or all system features.</li> <li>Export all: On the Feature Tree page, click</li> </ul>	You must have permissio n to
	on the right of the search bar and choose <b>Export</b> <b>All</b> . The <b>Select Fields to Export</b> dialog box is displayed.	<b>export</b> features.
	<ul> <li>Export some: In the feature list, select one or more system features to be exported and click</li> <li>Export at the bottom of the page. The Select</li> <li>Fields to Export dialog box is displayed.</li> </ul>	
	2. Select the fields to be exported.	
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the system features are exported, the feature file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>	
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.	
Configure	Click 🍄 next to the <b>Operation</b> field.	You must
fields to display	<ul> <li>On the left of the pop-up box, select the fields to be displayed in <b>Available</b>.</li> </ul>	have permissio n to <b>view</b>
	<ul> <li>On the right of the pop-up box, drag the fields in Selected to adjust the display sequence.</li> </ul>	features.

#### Managing System Features on Their Details Pages

On the details page of a system feature, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

	Initial		R&D		Co	ompleted
Details	Ø Attachment 0 ∂ Related Items 0	율 Review ④ Workl	oad @ History			
Descripti	tion			🖉 Edit	* Status	Initial
[	1			53	* Owner	
[	1				* Feature Set 💿	IPD
					Priority	<ul> <li>Medium</li> </ul>
[	1				Planned Start	Select
					Planned Com	Select
					Planned 🔘	Required.
					Sum Actu 🔘	-
omments	i			All ▼ JF	High Value	No
Enter a co	omment. Use @ to notify others.				Used For	Required.
					Domain	Select
					Сору То	-Select-

Figure 7-51 System feature details page

Operatio n	Procedure	Remarks
Edit work item	On the system feature details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop- down list. The modification is saved immediately.	You must have permission to <b>edit</b> features.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 7-13</b> .	You must have permission to <b>set</b> <b>statuses</b> for features.
Baseline feature	<ol> <li>Go to the work item details page, and choose ***         <ul> <li>Baseline. The Baseline dialog box is displayed.</li> <li>Click OK.</li> <li>The baseline icon SF is displayed on the left of the system feature title.</li> </ul> </li> <li>NOTE         <ul> <li>The baseline of a system feature can be canceled.</li> </ul> </li> </ol>	You must have permission to <b>baseline</b> features.

Operatio n	Procedure	Remarks
Initiate baseline review	<ol> <li>Go to the work item details page, and choose         <ul> <li>Baseline Review. The BR page is displayed.</li> </ul> </li> <li>Enter BR information.             By default, the Baseline Object is the system             feature for which the baseline review is initiated.</li> <li>Click Submit. The Review page is displayed.             Choose Review &gt; Baseline Review to check the             new baseline review.</li> <li>Switch to the Feature Tree page. The icon of the             system feature that is under baseline review is             displayed as             SF<sup>A</sup>             Irack the review progress of the baseline review. The             system feature can be baselined only when the baseline             review status changes to Approved.</li> </ol>	You must have permission to <b>view</b> features.
Initiate change review	<ul> <li>The change process can be initiated only for baselined and uncompleted FEs.</li> <li>1. Go to the details page of a baselined work item, and choose *** &gt; Change Review. The CR page is displayed.</li> <li>2. Enter CR information.</li> <li>Change Object: By default, it is the system feature to be changed.</li> <li>Collaborative Parent Item Change: Only existing CRs can be added.</li> <li>Click Submit. The Review page is displayed. Choose Review &gt; Change Review to check the new CR in the change process. The CR state is Pending review by default.</li> <li>NOTE Track the review progress of the CR. Only when the state is Approved, which means that the CR has been processed, will the changed content display in the corresponding system feature.</li> </ul>	You must have permission to <b>view</b> features.

Operatio n	Procedure	Remarks
Upload attachme nt	Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.	You must have permission to <b>upload</b>
	<ol> <li>Go to the work item details page, and click the Attachment tab.</li> </ol>	attachmen ts for
	<ol> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box.</li> <li>When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> </ol>	features.
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.	
	<ul> <li>Click download the file.</li> </ul>	
	<ul> <li>Click is to delete the uploaded file.</li> </ul>	

Operatio n	Procedure	Remarks
Add and check	A work item can be associated with other types of work items in a project.	You must have
related items	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permission to create associate
	Details @ Attachment 0 2 Related Items 0 2 Review () Workload () History	dissociat
	> Subrequirement(0) C Preak Down O Associate	features, create/ associate
	> Associate Work Item(0)   + Task 🖉 Associate Task	dissociat child
	> Files (0)   $O$ Associate	requirem nts,
	> Wiki(0)   Ø Associate	create/ associate dissociat
	> Test Case(0) 🖗	work items, associate
	<ul> <li>2. Complete association.</li> <li>Subrequirement: IR of a child requirement in</li> </ul>	dissociat files, and associate
	the current FE. Creating a child requirement: Click <b>Create IR</b> to add a child requirement.	dissociat wikis for features.
	Each requirement can be broken down into a maximum of 10 child requirements at a time. One child requirement is displayed by default and cannot be deleted. Click I to expand and configure more information.	
	After the child requirements are created, you can check and edit them on the <b>R&amp;D Requirements</b> tab.	
	<ul> <li>Associate Work Item: associated work items of other types in the project. Task work items can be associated.</li> </ul>	
	• <b>Files</b> : files corresponding to the feature. Select a file associated with the current feature. You can upload a local file.	
	• Wiki: wikis corresponding to the feature. Select a wiki associated with the feature. You can create a wiki.	
	• <b>Test Case</b> : test cases corresponding to the system feature. You can select system features associated with test cases in CodeArts TestPlan.	

Operatio n	Procedure	Remarks
Add workload	<ol> <li>Go to the details page of a work item and click Workload.</li> </ol>	You must have
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>
	3. Enter the workload information.	<b>person-</b> <b>hours</b> for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	features. Workloads
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	can be edited and deleted by
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	the creator. By default,
	<ul> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul>	administrat or can edit and delete
	<ol> <li>Click <b>OK</b>. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	workloads.
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload adding.	You must have permission
	1. Go to the work item details page.	to <b>view</b> features.
	2. Click the <b>History</b> tab.	
	<ul> <li>Click I or T to check historical records in the ascending or descending order of operation time.</li> </ul>	
	<ul> <li>You can set search criteria to query historical records that meet the search criteria.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> </ol>	You must have permission
	<ol> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> </ol>	to <b>edit</b> features.
	<ol> <li>Click OK.</li> <li>The new tag is displayed next to the requirement ID in the feature list.</li> </ol>	
	4. (Optional) Hide a tag.	
	<ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul>	
	Tag 🕂 🧧 🛟 Break Down Subrequ	
	Q Enter a keyword.	
	Plann • xuqiu1	
	+ Create Tag	
	<ul> <li>Move the cursor to the tag name and click I to hide the tag.</li> </ul>	
	Tag + •xuqiu1	
	• xuqiu1	
	NOTE If you need to add tags for multiple system features, select the desired system features, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the Details tab page, click the Comments text box.</li> <li>Comments</li> <li>Alt IF</li> <li>IF = IF IF</li></ol>	You must have permission to <b>view</b> features.
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> <li>Click Submit. Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

## 7.5 Configuring a Plan

Generally, multiple milestones and release versions are set in project management based on the delivery plan. Each release version can be completed through multiple sprints to deliver project achievements better. R&D requirements, tasks, and bugs of a project can be planned in the release and sprint plans to deliver achievements in an orderly and timely manner, which keeps the project progress under control and manages the allocation of project members.

#### 

- Type M (M): Milestone.
- Type R ( R): Release plan.
- Type S (S): Sprint plan.

#### Prerequisites

An IPD-standalone software project is available, in which you have permission to **create** plans.

#### **Creating Milestones**

Step 1 Access the CodeArts Req homepage.

Step 2 On the project homepage, select Plans.

**Step 3** Click **Plan** and select **Milestone**. In the **Create Milestone** dialog box, set the required parameters.

Table	7-18	Creating	а	milestone
		creating	~	micescome

Parameter	Description	
Name	Name of a milestone. The value can contain a maximum of 30 characters.	
	Names of milestones under the same project must be unique.	
Completes	Planned completion time of a milestone, which can be selected based on the actual project situation.	
Owner	Current owner of a milestone.	

### Step 4 Click OK.

The new milestone is displayed in the plan management list.

----End

### **Creating Release and Sprint Plans**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, select **Plans**.
- Step 3 Click Plan, select Release Plan, and set the parameters.

#### Table 7-19 Creating a release plan

Parameter	Description	
Release Name	Name of a release plan. The value can contain a maximum of 30 characters.	
	Names of release plans under the same project must be unique.	
Owner	Owner of a release plan.	
Start/End Start time and end time of a release plan.		
Time	The end time cannot be earlier than the planned start time.	
Planned Capacity (person-day)	Estimated plan workload within the release plan time range. The value can be accurate to one decimal place.	
Description	Enter release information based on actual conditions. A maximum of 1,000 characters can be entered.	

#### Step 4 Click OK.

The new release is displayed in the plan management list.

By default, a new release plan is in the **Planned** state. You can manually update the release plan status:

- **Planned**: Click **Start Release** to change the state to **Going**.
- Going: Click Set to not yet started to change the state to Planned, or click Complete to change the state to Ended.
- Ended: Click Restart to change the state to Going.

New sprint plans cannot be added for completed release plans.

**Step 5** Click + in the row where the release for which you want to add a sprint is located. The **Create Sprint** window is displayed.

**Step 6** Set the sprint plan information.

- The names of sprint plans under the same release should be unique.
- The **Start/End Time** of a sprint plan can be selected only from the **Start/End Time** of the release to which the sprint plan belongs.
- Step 7 Click OK.

You can view the new sprint plan under the release to which the sprint plan belongs.

By default, a new sprint plan is in the **Planned** state. You can manually update the sprint plan status:

- Planned: Click Start Iteration to change the state to Going.
- **Going**: Click **Reset** to change the state to **Planned**, or click **Complete** to change the state to **Ended**.
- Ended: Click Restart Iteration to change the state to Going.

----End

### **Related Operations**

You can perform the following operations on new milestones, release plans, and sprint plans.

Operation	Description
Edit release/ sprint plans	Click $\checkmark$ in the <b>Operation</b> column of the release or sprint plan to edit it.
	<b>NOTE</b> Baselined release and sprint plans cannot be edited.

Table 7-20 Operations related to plan management

Operation	Description		
Baseline release/ sprint plans	<ul> <li>Choose *** &gt; Baseline in the Operation column of the release or sprint plan.</li> <li>NOTE <ul> <li>After a release plan is baselined, the R&amp;D requirements (IRs) under the release are also baselined.</li> <li>After a sprint plan is baselined, the R&amp;D requirements (IPD-system)</li> </ul> </li> </ul>		
	device: SRs and ARs; IPD-standalone software: USs) under the sprint are also baselined.		
Cancel baselined	Only the baseline of a release or sprint plan can be canceled.		
release/ sprint plans	Choose *** > <b>Unbaseline</b> in the <b>Operation</b> column of a baselined release or sprint plan. NOTE		
	<ul> <li>After the release plan is unbaselined, the R&amp;D requirements (IRs) under the release are also unbaselined.</li> </ul>		
	<ul> <li>After a sprint plan is unbaselined, the R&amp;D requirements (IPD-system device: SRs and ARs; IPD-standalone software: USs) under the sprint are also unbaselined.</li> </ul>		
View history of release or sprint plans	Choose <b>History</b> in the <b>Operation</b> column of a release/ sprint plan. Then view the historical records of the release plan/ sprint plan on the displayed page.		
Delete release/ sprint plans	Click <b>Delete</b> under <sup>***</sup> in the <b>Operation</b> column of the release or sprint plan. In the displayed dialog box, click <b>OK</b> . <b>NOTE</b>		
	Baselined release and sprint plans cannot be deleted.		
	<ul> <li>Once you delete release and sprint plans, they are permanently deleted and cannot be restored.</li> </ul>		
Edit milestone	Click $\mathscr{P}$ in the <b>Operation</b> column of a milestone to edit it.		
Delete milestone	Click in the <b>Operation</b> column of a milestone to delete it. <b>NOTE</b> Once you delete milestones, they are permanently deleted and cannot be restored.		

Operation	Description	
Batch operations	Select the check boxes on the left of the plans to manage the plan data in batches.	
	Baseline: You can baseline multiple release or sprint plans separately.	
	Cancel baseline: You can cancel multiple baselined release or sprint plans separately.	
	Export: You can export selected data in batches.	
	Delete: You can delete selected data in batches.	
	<b>NOTE</b> Once you delete plans, they are permanently deleted and cannot be restored.	

### **Arranging Release and Sprint Plans**

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, select Plans.
- **Step 3** Click the title of a release or sprint plan to go to the details page.

The plan's basic information, work item scope, and statistics are displayed. You can arrange the plan and change its status.

### Figure 7-52 Plan details page

← R RRPF	Comp      Comp     Comp      Comp      Comp      Co	Plan release scope	Complete	
Release Range	Release Statistics			
Unfinished -	Q Status Analyzing IInitial   Acceptin × Category: IR   SR   AR   Task   Bog Add ITters.	I×□≡ E	88 📹 …	
TIDe @	T Status O T Priority O T Release T Severity O T Collaboration Status Owner T	Responsi 🔘 Days	Operation 📀	
			0	
No data available.				
	Come and release the release scope quickly! Pain release scope			

Step 4 Click Plan release scope.

**NOTE** 

The release scope of baselined or completed release plans cannot be changed.

**Step 5** Select the work items to be added to the current release plan, and click **OK**.

**NOTE** 

This procedure uses a release plan as an example. Sprint plans can be configured in the same way.

----End

## **Checking Statistics of Release and Sprint Plans**

- **Step 1** On the project homepage, select **Plans**.
- **Step 2** Click the title of a release or sprint plan to go to the details page, and click **Statistics**.

### Figure 7-53 Plan details page - Statistics

Release Statistics         Release Statistics	Plan release scope         © Complete         ···           Actual load planned capacity (personidary):         © 0.0/         Description:
Verview Statistics         Reference every 5 to 10 minutes         Imitial Requirement         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0           1       0	
0.8 0.6 0.4 0.2 2 <u>016/05-14 2006/05-16 2006/05-20 2006/05-22 (006/05-24 2006/05-36</u>	0.8

The following types of charts are supported.

Table 7-21	Release	charts
------------	---------	--------

Chart Name	Data Description	
Work item overview	Counts the total, processing, completed, and overdue work items of each type in the current release.	
Burndown chart	Uses a line chart to display the daily trend of changes in the number and planned workloads of all work items in the current release.	
	<ul> <li>Total workload: The system runs a scheduled task daily to calculate the total workloads (planned workloads and work items) of all work items in the current release.</li> </ul>	
	• Left workload: The system runs a scheduled task daily to calculate the workloads (planned workloads and work items) of all uncompleted work items in the current release.	
	• Expected line: The line connecting the total workload from the first day to the last day. The total workload of the last day is 0 person-days.	
	This chart helps you identity risks in the release progress.	
Release load capacity	Uses a grouped column chart to compare the planned and release workloads of each work item type in the current release. This chart helps you check whether the actual workloads exceed the planned ones.	

Chart Name	Data Description
Bug trend	Uses a line chart to display the numbers of daily discovered and resolved bugs as well as the remaining defect index (DI). This chart helps you understand the bug trend in the current release.
Work items by priority	Uses a grouped column chart to display the numbers of different work item types under each member by priority. This chart helps you understand the priorities of work items under each member.
Work item completion	Uses a line chart to display the numbers of completed and total work items of each type in the current release. This chart helps you learn about the release's daily completion status.
Work items by status	Uses a ring chart to display the number and proportion of work items of each type in different statuses under the current release. This chart helps you learn about the release's work items in different statuses.
Work item breakdown	Uses a column chart to display the numbers of broken-down and total work items of each type under the current release. This chart helps you learn about the work item breakdown progress of the current release.
Work item completion rate	Uses a column chart to display the numbers of completed and total work items of each type in the current release. This chart helps you learn about the release's completion status by work item or planned workload.
Work item stay days	Uses a column chart to display the average number of days that work items of each type stay in each status (except for a <b>Done</b> status) in the current release. This chart helps you identify the delivery bottlenecks in your team.
Work item statistics for project members (by status)	Uses a grouped column chart to display the numbers of different work item types in different statuses under each member. This chart helps you learn about the work item progress of each member.
Unfinished work items by member	Uses a grouped column chart to display the number of uncompleted work items of each member under the current release. This chart helps you check whether the work item assignment of each member is appropriate.
Requirement TTM	Uses a column chart to display the average time that each requirement type takes to complete since it is created or submitted. This chart helps you understand the delivery rate of each work item type.

### D NOTE

The description uses a release plan as an example. Sprint plans have the same statistical charts.

----End

# 7.6 Creating and Managing R&D Requirements

## 7.6.1 R&D Requirement Status Transition Process

The lifecycle of an R&D requirement consists of the **Initial**, **Analyzing**, **Developing**, **Testing**, and **Completed** states. **Figure 7-54** shows the complete status transition process.

Figure 7-54 R&D requirement status transition flowchart



 Table 7-22 describes operations in each state.

Table 7-22	Operation	description
------------	-----------	-------------

State	Description
Initial	When an R&D requirement is created, the state is <b>Initial</b> by default.
Analyzi ng	After the R&D requirement in the <b>Initial</b> state is handled, the state changes to <b>Analyzing</b> .
Develo ping	After the R&D requirement is analyzed, the state changes to <b>Developing</b> .
Testing	After the development personnel complete the R&D requirement development, the state changes to <b>Testing</b> .
Compl eted	After the R&D requirement passes the test, the state changes to <b>Completed</b> .

## 7.6.2 Creating R&D Requirements

R&D requirements are delivered in a project's product iterations (PIs) and sprints. These requirements can be associated with raw requirements and system features.

### Prerequisites

An IPD-standalone software project is available, in which you have permission to **create and duplicate** R&D requirements.

### Procedure

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **R&D Requirements**.
- **Step 3** Click **IR**. On the **IR** page, set related parameters.

Table 7-23 Creating an IR

Paramet er	Description
Tag	When creating or editing a work item, you can add a customized tag. Tag names can be marked in different colors.
Title	Title of a work item.
Descriptio n	Enter the background, value, and details of the R&D requirement based on actual conditions. Use text, images, or links.
Attachme nt	The maximum number of attachments for an R&D requirement is 100, and the total size of them should be no more than 50 MB.
Responsib le Project	Project that the R&D requirement belongs to. The value cannot be changed.
Raised By	Members who propose the requirement. Multiple proposers can be specified.
Owner	Member who is responsible for this requirement. Only one person can be specified.
Priority	Priority of an R&D requirement, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Release	Release plan version of the R&D requirement.
	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	This parameter can be left empty. You can create a release plan and then associate it with the release plan.
Sprint	Next level of the release plan.
	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	The parameter value can be empty. You can create a sprint and then associate it with the sprint.
Planned Start	Planned start time of a requirement. The date format is <b>yyyy-mm-</b> <b>dd</b> .

Paramet er	Description
Planned Completi on	Planned completion time of a requirement. The date format is <b>yyyy-mm-dd</b> . The planned completion time cannot be earlier than the planned start time.
Planned Workload	Estimated workload from the planned start time to the planned completion time for this requirement.
Domain	Domain. The value includes software, hardware, software and hardware, functions, and performance.
Breakdow n Required	Whether it is necessary to break down this requirement into smaller units.
Reason for Non- Breakdow n	This parameter is displayed only when <b>Breakdown Required</b> is set to <b>No</b> . State the true conditions of the project.
Сору То	Project members to whom the task is copied. After the copy is complete, the people selected for <b>Copy To</b> will receive a message notification.

**Step 4** Click **OK**. The R&D requirement page is displayed, and "IR created." is displayed in the upper right corner.

The new requirement is displayed in the R&D requirement list, and the requirement state is **Initial**.

+ IR	Uncompleted •	Q Status:Analyzing   Initial   Developi × Add filters.							
	Title 🕜 🕇		Status 🕤 🍸	Priority 🕒 🕇	Release-S T	Collaboration Status	Owner T	Days 🕒 🍸	Planne
	IR IR20240913717589		Initial	Medium				5 days	-

Figure 7-55 R&D requirement list

### 

After an R&D requirement is created, the people selected for **Owner**, **Raised By**, and **Copy To** will receive email notifications and internal message notifications. If not, set notifications or modify notification settings. For details, see **Configuring Notifications**.

----End

## **Related Operations**

You can perform the following operations on a new R&D requirement.

Operation	Description
Modify R&D requirement title	Click Z next to an R&D requirement title to modify it.
Modify R&D requirement field	Click the target field value in the row of an R&D requirement to modify the value.
Create child requirement	Click <sup>C</sup> in the <b>Operation</b> column of an R&D requirement to break it down into child requirements.
	• In the <b>Break Down Subrequirements</b> dialog box, click <b>Add</b> <b>Subrequirement</b> to create a child requirement. A maximum of 10 child requirements can be created at a time.
View R&D requirement association map	Click <sup>3</sup> in the <b>Operation</b> column of an R&D requirement to view all data of its related items.
Duplicate R&D requirement	Click $\textcircled{III}$ in the <b>Operation</b> column. This process is the same as that of creating an R&D requirement.
Delete R&D requirement	<ul> <li>Click in the Operation column.</li> <li>NOTE</li> <li>R&amp;D requirements in change or baseline review cannot be deleted.</li> <li>Once deleted, an R&amp;D requirement is moved to the recycle bin. R&amp;D requirements in the recycle bin can be restored or permanently deleted. After an R&amp;D requirement is restored from the recycle bin, it restores to the original status.</li> </ul>
Copy R&D requirement link	Choose *** > <b>Copy Link</b> in the <b>Operation</b> column of an R&D requirement to copy its title, ID, owner, status, and link to the clipboard.
Migrate R&D requirement	<ul> <li>Choose &gt; Migrate in the Operation column of an R&amp;D requirement to migrate it to other projects.</li> <li>NOTE <ul> <li>R&amp;D requirements that have been baselined, completed, or are currently under baseline review or change review cannot be migrated.</li> <li>Batch migration is based on the selected top-level requirement type. IRs are migrated across projects and non-IRs within a project.</li> <li>Requirements are migrated together with their child requirements.</li> <li>After an R&amp;D requirement is migrated to another project, the system automatically removes its tags, actual workloads, related items (except for collaborative requirements), and PI, and only keeps the fields of the same type as the existing work items. The associated</li> </ul> </li> </ul>

Table 7-24 Basic operations on an R&D requirement

## 7.6.3 Managing R&D Requirements

After creating an R&D requirement (see **Procedure**), you can perform the operations described in this section on it.

## On the R&D Requirements List Page

Go to the project homepage, choose **Work > Req > R&D Requirements**, and perform the following operations.

Figure 7-56 R&D requirement list

Homepage / IPD-	Free Trial / Work									
Raw Requirements Fe	eature Tree R&D Requirements	Tasks Defects	Review Statis	tics Plans					🙂 Feed	Iback 🗊 Recycle Bin
+ IR All •	Q Add litters.								Collaboratio	n Requirements
🗌 🛨 Title 🔘 🍸			Status 🕒 🕇	Priority 🕒 🍸	Release-S	Collaboration Status	Owner T	Days 😑 🍸	Planned Start 🕘 🍸	Operation 😳
RR-IP	40918721723		Completed	Medium			hwstaff_p	0 day	-	e 🛪 …
IR2024	40918720559		Initial	Medium			hwstaff_p	0 day	-	€ ¥ …
	dhdfhdfd 40914721107		Analyzing	Medium			hwstaff_p	2 days	**	¢ ¾ …
	ihsdashdas 40914720128		Analyzing	Medium		-	hwstaff_p	2 days	-	e * …
								20 v / Page	e, Total Records: 4 🛛 <	> Go To 1

Table 7-25 Management operations in the	R&D requirement list
-----------------------------------------	----------------------

Operatio Procedure n	
<ul> <li>Search for R&amp;D requirement list and select one or more filters to search for R&amp;D requirements.</li> <li>2. To clear all filters and display all data, click × on the right the search bar.</li> <li>By using a saved view</li> <li>Click the search box in the R&amp;D requirement list and select one or more filters.</li> <li>Click the search box in the R&amp;D requirement list and select one or more filters.</li> <li>Click is on the rightmost of the search bar, and enter a vie name.</li> <li>Click OK. The created view is displayed next to IR.</li> <li>You can select the name of the created view to query the R&amp;D requirements that meet the search criteria.</li> </ul>	of

Operatio n	Procedure
Collabora te on R&D	You can deliver R&D requirements to other projects for collaborative management.
requirem	<b>NOTE</b> Completed R&D requirements cannot be collaborated.
ent	1. In the R&D requirement list, select the requirements to be collaborated.
	<ul> <li>Select the check boxes of the requirements to be collaborated and click <b>Deliver</b> in the lower part of the page. You can select one or more requirements.</li> </ul>
	<ul> <li>Go to the details page of the requirement to be assigned,</li> </ul>
	click <b>the upper right corner, and select Deliver</b> .
	<ol> <li>Select a downstream project in the displayed dialog box. If there is no value in the drop-down list box, perform the following operations to add a value:</li> </ol>
	<ul> <li>a. Choose Configure downstream project. The Downstream Projects page is displayed.</li> </ul>
	<ul> <li>b. Click Add Downstream Project. The Add Downstream Project window is displayed.</li> </ul>
	c. Select a desired project.
	d. Click <b>Add</b> .
	3. Click <b>Next</b> . The <b>Deliver</b> dialog box is displayed.
	<ol> <li>Set the recipient in <b>To</b> and the expected receiving time in Expected Received.</li> </ol>
	<ol> <li>Click OK. In the R&amp;D requirement list, the Collaboration Status of the collaborative requirement is Assign.</li> </ol>
	<b>NOTE</b> Different colors of <b>Assign</b> indicate different meanings.
	Assign : If the current requirement has downstream requirements that are pending receival, the color of <b>Assign</b> is orange.
	Assign : After all downstream requirements under the current requirement are received, the color of <b>Assign</b> turns green.
	Assign : If the current requirement has downstream requirements turned back, the color of <b>Assign</b> is red.

Operatio n	Procedure
Receive delivered	Perform this operation when another project assigns an R&D requirement to your project.
R&D requirem ent	<ol> <li>In the R&amp;D requirement list, click Collaboration Requirements on the right of the search bar. The Collaboration Requirements page is displayed.</li> </ol>
	2. Click <b>Received</b> . The requirements to be received are displayed.
	3. Click Receive next to the requirement to be received. The <b>Receive Collaboration Requirement</b> dialog box is displayed.
	<ul> <li>Click and enter the rejection reason to reject the requirement.</li> </ul>
	<ul> <li>Click A to transfer the requirement to another person.</li> </ul>
	<ul> <li>Click Export All to export the requirement data to an Excel file.</li> </ul>
	4. Select Mode and Requirement Type according to the actual situation of the project, and modify Requirement Title. When Mode is set to Associate, you only need to select Associated Requirement. The value of Associated Requirement comes from all R&D requirements created in the project.
	<ol> <li>Click OK. The state of the received requirement changes to Received.</li> <li>NOTE</li> </ol>
	Ē
	<ul> <li>Click Click to deliver the requirement to other projects.</li> <li>Click to reject the received requirement. After the requirement is</li> </ul>
	rejected, the requirement state changes to <b>Receiving</b> .
	<ol> <li>Click X in the upper right corner of the page to close the Collaboration Requirements page.</li> </ol>
	<ul> <li>When Mode is set to Copy, the received requirement information is displayed in the R&amp;D requirement list, and the copied requirement information can be viewed in Related Items &gt; Related Upstream Requirements of the requirement details.</li> </ul>
	<ul> <li>When Mode is set to Associate, the Collaboration Status of the associated requirement is Received. You can view the received requirement information in Related Items &gt; Related Upstream Requirements of the requirement details.</li> </ul>

Operatio n	Procedure
Import	Use the provided template to import requirements in batches.
work items	1. In the R&D requirement list, click <sup>•••</sup> on the right of the search bar and select <b>Import</b> .
	<ul> <li>In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>R&amp;D Requirement</b>) + <b>Template</b>.</li> </ul>
	<ol> <li>Fill in the fields on the IR - Requirements sheet.</li> <li>For details about how to set parameters, see the RR - Import Rules sheet in the template file.</li> </ol>
	4. Drag or click $\Box$ to select a file to be imported.
	5. Click <b>Import</b> . The import progress dialog box is displayed.
	<ul> <li>After the import is successful, you can view the imported requirement information in the R&amp;D requirement list.</li> </ul>
	• If the import fails, a message is displayed in the upper right corner of the page. Click <b>View Failure Details</b> in the message to view the failure details. You can modify the requirement information based on the details and import the template again.
	NOTE For details about operations on import records, see Viewing Work Item Import/Export Records.
Export	Export requirements in batches to an Excel file.
work items	1. Export some or all R&D requirements.
	• Export all: On the <b>R&amp;D Requirements</b> page, click … on the right of the search bar and choose <b>Export</b> . The <b>Select Fields to Export</b> dialog box is displayed.
	<ul> <li>Export some: In the R&amp;D requirement list, select one or more R&amp;D requirements to be exported and click Export at the bottom of the page. The Select Fields to Export dialog box is displayed.</li> </ul>
	2. Select the fields to be exported and determine whether to expor child requirements.
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the R&amp;D requirements are exported, the R&amp;D requirement file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.

Copy To --Select--

Operatio n	Procedure
Configure fields to display	<ul> <li>Click <sup>(2)</sup> next to the <b>Operation</b> field.</li> <li>On the left of the pop-up box, select the fields to be displayed in <b>Available</b>.</li> </ul>
	<ul> <li>On the right of the pop-up box, drag the fields in Selected to adjust the display sequence.</li> </ul>

## On the R&D Requirement Details Page

On the details page of an R&D requirement, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

Figure 7-57	′ R&D	requirement details page	
-------------	-------	--------------------------	--

R2024091371758	39	cre	ated at Sep 13, 3	2024 16:55:41 GI	MT+08:00 Tag	+					··· <sub>k</sub> <sup>n</sup> >
R kkkkkk	kk-RR										
	nitial		Analyzing		Developing		Te	sting		Comple	ted
Details	Attachment 2	PRelated Items 1	요 Review	() Workload	() History						
Description							l∕2 Ed	lit	* Status	Initial	
[ ]							[]	1	* Raised By		
[ ]									* Owner		
									Priority	Medium	
[ ]									Release	Select	
									Planned Start	Select	
									Planned Com	2024/09/15	
									Planned Dev	Select	
omments							All 🔻 JF		Planned Test	Select	
Enter a commer	nt. Use @ to no	tify others.							Planned 🍥	5.0	person-o
								_	Sum Actu 🍥		
									Domain	Software	
									Network Sec	No	
									Breakdow 🍥	Yes	

Operatio n	Procedure	Remarks
Edit work item	On the R&D requirement details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop- down list. The modification is saved immediately.	You must have permission to <b>edit</b> R&D requiremen ts.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 7-22</b> .	You must have permission to <b>set</b> <b>statuses</b> for R&D requiremen ts.
Baseline R&D requirem ent	<ol> <li>Go to the work item details page, and choose ***         <ul> <li>Baseline. The Baseline dialog box is displayed.</li> <li>Click OK.</li> <li>The baseline icon is displayed on the left of the R&amp;D requirement title.</li> </ul> </li> <li>NOTE Baselined R&amp;D requirements can be canceled.</li> </ol>	You must have permission to <b>baseline</b> R&D requiremen ts.
Initiate baseline review	<ol> <li>Go to the work item details page, and choose ***         <ul> <li>Baseline Review. The BR page is displayed.</li> </ul> </li> <li>Enter BR information.             By default, the Baseline Object is the R&amp;D             requirement for which the baseline review is             initiated.</li> <li>Click Submit. The Review page is displayed.         <ul> <li>Choose Review &gt; Baseline Review to check the             new baseline review.</li> </ul> </li> <li>Switch to the Features page. The icon of the R&amp;D         requirement that is under baseline review is         displayed as .         <ul> <li>NOTE             Track the review progress of the baseline review. The R&amp;D             requirement can be baselined only when the baseline             review status changes to Approved.</li> </ul></li></ol>	You must have permission to <b>view</b> R&D requiremen ts.

Table 7-26 Management operations on the details page

Operatio n	Procedure	Remarks				
lnitiate change	The change process can be initiated only for baselined and uncompleted R&D requirements.	You must have				
review	1. Go to the details page of a baselined work item,	permission to <b>view</b>				
	and choose *** > <b>Change Review</b> . The <b>CR</b> page is displayed.	R&D requiremen				
	2. Enter CR information.	ts.				
	<ul> <li>Change Object: By default, it is the R&amp;D requirement to be changed.</li> </ul>					
	<ul> <li>Collaborative Parent Item Change: Only existing CRs can be added.</li> </ul>					
	<ol> <li>Click Submit. The Review page is displayed. Choose Review &gt; Change Review to check the new CR in the change process. The CR state is Pending review by default.</li> </ol>					
	<b>NOTE</b> Track the review progress of the CR. Only when the state is <b>Approved</b> , which means that the CR has been processed, will the changed content display in the corresponding R&D requirement.					
Upload attachme nt	Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.	You must have permission to <b>upload</b>				
	<ol> <li>Go to the work item details page, and click the Attachment tab.</li> </ol>	attachmen ts for R&D				
	<ol><li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li></ol>	requiremen ts.				
	Local files can be directly dragged to the text box. When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.					
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.					
	<ul> <li>Click download the file.</li> </ul>					
	<ul> <li>Click is to delete the uploaded file.</li> </ul>					

Operatio n	Procedure	Remarks
Add and check	A work item can be associated with other types of work items in a project.	You must have
related items	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permissio to <b>delive</b> cancel
	Figure 7-58 Related items	assignme t, create/
	Details @ Attachment 0 @ Related Items 1 & Review () Workload () History	delete child
	> Parent Requirements(1)	requirem nts, associate
	> Feature(0)	dissociate
	> Subrequirement(0)   C Break Down	items, associate
	> Related Upstream Requirements(0)	dissociat files, and
	> Related Downstream Requirements(0) 🛛 🖹 Deliver	associate dissociat
	> Associate Work Item(0)   + Task $O$ Existing	wikis for R&D
	> Files (0)   @ Associate	requirem ts.
	> Wiki(0)   Ø Associate	
	> Test Case(0) @	
	> Code Commit Record(0) 🔘	
	> Code Branch(0)	
	2. Complete association.	
	• <b>Parent Requirements</b> : parent requirements to which an R&D requirement belongs. The information about an RR is displayed in the <b>Parent Requirements</b> area only when the IR is associated with the RR.	
	• <b>Feature</b> : features to which an R&D requirement belongs. Only when an IR is associated with a feature will the information about the feature be displayed in the <b>Feature</b> area.	
	• <b>Subrequirement</b> : SRs of a child requirement in the current R&D requirement. Each requirement can be broken down into a maximum of 10 child requirements at a time.	

Operatio n	Procedure	Remarks
	One child requirement is displayed by default and cannot be deleted.	
	1. Click <b>Break Down</b> . The <b>Break Down</b> <b>Subrequirements</b> window is displayed.	
	2. Configure the child requirement. Click 🔝 to expand and configure more information.	
	3. Click <b>OK</b> . The child requirement is automatically displayed under the parent feature in the R&D requirement list.	
	• <b>Related Upstream Requirements</b> : requirements assigned by other projects to your project.	
	<ul> <li>Related Downstream Requirements: requirements assigned to downstream projects.</li> <li>1. Click Deliver. The Deliver window is displayed.</li> </ul>	
	<ol> <li>In the dialog box that is displayed, set Select Downstream Project, To, and Expected Received.</li> </ol>	
	<b>NOTE</b> If there is no value in the drop-down list box, perform the following operations to add a value:	
	<ol> <li>Choose Configure downstream project. The R&amp;D Downstream Projects page is displayed.</li> </ol>	
	2. Click Add Downstream Project.	
	3. Select a desired project.	
	4. Click <b>Add</b> .	
	3. Click <b>OK</b> .	
	In the R&D requirement list, the <b>Collaboration</b> <b>Status</b> of the collaborative requirement is <b>Assign</b> .	
	<ul> <li>Associate Work Item: associated work items of other types in the project. Task work items can be associated.</li> </ul>	
	<ul> <li>Files: files corresponding to the R&amp;D requirement.</li> <li>Select a file associated with the current requirement. You can upload a local file.</li> </ul>	
	<ul> <li>Wiki: wikis corresponding to the R&amp;D requirement.</li> <li>Select a wiki associated with the current requirement. You can create a wiki.</li> </ul>	
	• <b>Test Case</b> : test cases corresponding to the R&D requirement. You can select R&D requirements associated with test cases in CodeArts TestPlan.	

Operatio n	Procedure	Remarks
	<ul> <li>Code Commit Record: indicates the code commit records corresponding to the R&amp;D requirement.</li> <li>Related information is displayed only when the current requirement is associated during code commit.</li> </ul>	
	• <b>Code Branch</b> : code branches corresponding to the R&D requirement. Related information is displayed only when a code branch is associated with the current requirement.	
Check review	You can check the review records related to requirements only in the following situations:	You must have
record	<ul> <li>When an R&amp;D requirement is added to a baseline review, the baseline review process is triggered. Then you can check the review record on the <b>Review</b> tab of the feature details page.</li> </ul>	permission to <b>view</b> R&D requiremen
	• When a locked field of a baselined R&D requirement is modified, the change process is automatically triggered. Then you can check the review record on the <b>Review</b> tab of the feature details page.	ts.
	• When an R&D requirement has a general review record, you can check the record on the <b>Review</b> tab of the feature details page.	

Operatio n	Procedure	Remarks
Add workload	<ol> <li>Go to the details page of a work item and click Workload.</li> </ol>	You must have
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	permission to <b>add</b>
	3. Enter the workload information.	person- hours for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	R&D requiremen
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	ts. Workloads can be
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	edited and deleted by
	<ul> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul>	the creator. By default, the project administrat or can edit
	<ol> <li>Click <b>OK</b>. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	and delete all workloads.
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload adding.	You must have permission
	1. Go to the work item details page.	to <b>view</b> R&D
	2. Click the <b>History</b> tab.	requiremen
	<ul> <li>Click = or = to check historical records in the ascending or descending order of operation time.</li> </ul>	ts.
	<ul> <li>You can set search criteria to query historical records that meet the search criteria.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> </ol>	You must have permission
	<ol> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> </ol>	to <b>edit</b> R&D
	3. Click <b>OK</b> . The new tag is displayed next to the requirement ID in the RR list.	requiremen ts.
	4. (Optional) Hide a tag.	
	<ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul>	
	Figure 7-59 Hiding a tag - 01	
	Tag 🕂 🤄 🖓 Break Down Subrequ	
	Q Enter a keyword.	
	Plann • xuqiu1	
	+ Create Tag	
	<ul> <li>Move the cursor to the tag name and click is to hide the tag.</li> </ul>	
	Figure 7-60 Hiding a tag - 02	
	Tag + • xuqiu1 • xuqiu1	
	NOTE If you need to add tags for multiple work items, you can select the desired work item, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the Details tab page, click the Comments text box.</li> <li>Figure 7-61 Add comment         <pre></pre></li></ol>	You must have permission to <b>view</b> R&D requiremen ts.
	items, and use @ to notify project members in comments.	
	<ol> <li>Click Submit.</li> <li>Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 7.7 Creating and Managing Tasks

## 7.7.1 Task Status Transition Process

The entire lifecycle of a task consists of the **Initial**, **Processing**, and **Completed** states. **Figure 7-62** shows the complete status transition process.

1	6	5				2V6			Ir	nitial	G	5								P	roc	es	sir	ng							C	m	рI	. 1	٦	
1	9	2	Ž		, 3				N	o cor	ifig	ura	tior	1						N	o ci	onfi	gun	atio	n						No	CO	nfigu	urati	ion	
										. 1												Ť.														
																						•											•			
									Α	ny st	atu	IS								A	ny:	stat	us								Ar	ıy s	statu	S		

Figure 7-62 Task status transition flowchart

 Table 7-27 describes operations in each state.

Status	Description
Initial	When a task is created, the state is <b>Initial</b> by default.
Processing	After the task in the <b>Initial</b> state is processed, the state changes to <b>Processing</b> .
Completed	After the task is processed, the state changes to <b>Completed</b> .

Table 7-27 Operation description

## 7.7.2 Creating Tasks

Tasks are activities with a certain goal. They can be associated with raw requirements, features, and R&D requirements.

## Prerequisites

An IPD-standalone software project is available, in which you have permission to **create and duplicate** tasks.

## **Creating Tasks**

- Step 1 Access the CodeArts Req homepage.
- Step 2 On the project homepage, choose Tasks.
- Step 3 Click Create Task. The Task page is displayed.
- **Step 4** Fill in the basic task information.

### Table 7-28 Creating a task

Parameter	Description
Тад	When creating or editing a work item, you can add a customized tag.
	Tag names can be marked in different colors.
Title	Title of a work item.
Description	Enter the background, value, and details of the task based on project requirements. Use text, images, or links.
Attachment	A maximum of 100 attachments can be added to a task, and the total capacity is 50 MB.
Responsible Project	Project that the task belongs to. The value cannot be changed.
Owner	Member who is responsible for this task. Only one person can be specified.

Parameter	Description
Module	Module to which a task belongs.
Priority	Priority of a task, including <b>Low</b> , <b>Medium</b> , and <b>High</b> . The default value is <b>Medium</b> .
Release	Release to which a task belongs. The parameter value can be empty. You can create a PI and then associate it with the PI.
Sprint	The next level of PI. The parameter value can be empty. You can create a sprint and then associate it with the sprint.
Planned Start	Planned start time of a task. The date format is <b>yyyy-mm-dd</b> .
Planned Completion	Planned completion time of a task. The date format is <b>yyyy-</b> <b>mm-dd</b> .
	The planned completion time cannot be earlier than the planned start time.
Planned Workload	Estimated workload from the planned start time to the planned completion time for this task.
Сору То	Project members to whom the task is copied. After the copy is complete, the people selected for <b>Copy To</b> will receive a message notification.

**Step 5** Click **OK**. The task page is displayed, and a message is displayed in the upper right corner, indicating that the task is created successfully.

The new task is displayed in the task list, and the task state is Initial.

#### Figure 7-63 Task list

+ Ta	sk Unfinished •	Q Status:Initial   Processing × Add filters.					
	Title 🕜 🍸		Status 🕘 🍸	Priority 🕒 🍸	Owner T	Release-S T	Planned Start 💮 🍸
	TASK20240920722	2145	Initial	Medium			

#### **NOTE**

After a task is created, the people selected for **Owner** and **Copy To** will receive email notifications and internal message notifications. If not, set notifications or modify notification settings. For details, see **Configuring Notifications**.

----End

### **Related Operations**

You can perform the following operations on a new task.

Operation	Description
Modify task title	Click 🖉 next to a task title to modify it.
Modify task field	Click the target field value in the row of a task to modify the value.
Create child task	Click $\overset{\mathbb{C}^{\circ}}{\hookrightarrow}$ in the <b>Operation</b> column of a task to break it down into child tasks.
	• In the <b>Break Down Child Tasks</b> dialog box, click <b>Add child tasks</b> to create a child task. A maximum of 10 child tasks can be created at a time.
View task association map	Choose *** > <b>Association Map</b> in the <b>Operation</b> column of a task to view all data of its related items.
Clone task	Click $\textcircled{\oplus}$ in the <b>Operation</b> column. This process is the same as that of creating a task.
Delete task	Choose *** > <b>Delete</b> in the <b>Operation</b> column of a task to delete it.
	NOTE Once deleted, a task is moved to the recycle bin. Tasks in the recycle bin can be restored or permanently deleted. After a task is restored from the recycle bin, it restores to the original status.

Table 7-29 Basic operations on a task

## 7.7.3 Managing Tasks

After creating a task (see **Creating Tasks**), you can perform the operations described in this section on it.

## On the Task List Page

On the project homepage, choose **Work > Req > Tasks**, and perform the following operations.

#### Figure 7-64 Task list

Homepage / IPD-; 1 Free Trial / Work								
Raw Requirements Feature Tree R&D Requirements	Tasks Defects	Review Statistics	Plans				⊙ Fe	edback 🗊 Recycle
+ Task All • Q Add fillers.								
Title 🕲 T		Status 🕘 🍸	Priority 🕒 🍸	Owner T	Release-S T	Planned Start 🕒 🍸	Planned Completion 🕘 🍸	Operation
Taski afsdfsgsd TASK20240918721810		Initial	Medium	hwstaff_p	-	-		¢ ⊕ …
Taski pqwdnefbdulsj TASK20240918720460		Processi	Medium	hwstaff_p	-	-		ে ⊕ …
Task truihihhah TASK20240914721019		Initial	Medium	hwstaff_p	-	-		¢ 🗊 …

Operation	Procedure
Search for task	<ul> <li>By adding filters <ol> <li>Click the search box in the task list and select one or more filters to search for tasks.</li> <li>To clear all filters and display all data, click × on the right of the search bar.</li> </ol> </li> <li>By using a saved view <ol> <li>Click the search box in the R&amp;D requirement list and select one or more filters.</li> <li>Click I on the rightmost of the search bar, and enter a view name.</li> <li>Click OK. The created view is displayed next to the Task button.</li> <li>Select the created view to query the tasks that meet the search criteria. Views can be shared with others, modified, and deleted.</li> </ol> </li> </ul>
Import work items	<ul> <li>Use the provided template to import tasks in batches.</li> <li>1. In the task list, click <sup></sup> on the right of the search bar and select <b>Import</b>.</li> <li>2. In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>Task</b>) + <b>Template</b>.</li> <li>3. Fill in the fields on the <b>Task</b> - List sheet. For details about how to set parameters, see the <b>Task</b> - <b>Import Rules</b> sheet in the template file.</li> <li>4. Drag or click  to select a file to be imported.</li> <li>5. Click <b>Import</b>. The import progress dialog box is displayed.</li> <li>After the import is successful, you can view the imported task information in the task list.</li> <li>If the import fails, a message is displayed in the upper right corner of the page. Click <b>View Failure Details</b> in the message to view the failure details. You can modify the requirement information based on the details and import the template again. <b>NOTE</b> For details about operations on import records, see <b>Viewing Work Item Import/Export Records</b>.</li> </ul>

Table 7-30 Op	erations in	the task list
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Operation	Procedure
Export work items	Export requirements in batches to an Excel file. 1. Export some or all tasks.
	<ul> <li>Export all: On the Tasks page, click <sup>***</sup> on the right of the search bar and choose Export. The Select Fields to Export dialog box is displayed.</li> </ul>
	<ul> <li>Export some: In the task list, select one or more tasks to be exported and click Export at the bottom of the page. The Select Fields to Export dialog box is displayed.</li> </ul>
	2. Select the fields to be exported and determine whether to export child tasks.
	<ul> <li>3. Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the tasks are exported, the task file will be automatically downloaded to the local PC. The file format is .xlsx.</li> <li>NOTE         For details about operations on export records, see Viewing Work Item Import/Export Records.     </li> </ul>
Configure fields to	Click <sup>©</sup> next to the <b>Operation</b> field.
display	<ul> <li>On the left of the pop-up box, select the fields to be displayed in Available.</li> </ul>
	• On the right of the pop-up box, drag the fields in <b>Selected</b> to adjust the display sequence.

## On the Task Details Page

On the details page of a task, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

Initial	Processing	Co	ompleted
etails 🖉 Attachment 0 🔗 Related Items 0 💿 Workload 💿 History			
scription	🖉 Edit	* Status	Processi
1	13	* Owner	
1		Module	-Select-
		Priority	• Medium
]		Release	Select
97979777777		Sprint	Select Release first.
		Planned Start	-Select-
		Planned Com	-Select-
ments	All 🔻 JF	Planned 🔞	Required.
er a comment. Use @ to notify others.		Sum Actu 🔘	
		Сору То	Select

### Figure 7-65 Task details page

Table 7-31	Management	operations or	the	details page
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Operatio n	Procedure	Remarks
Edit work item	On the task details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop-down list. The modification is saved immediately.	You must have permission to <b>edit</b> tasks.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 7-27</b> .	You must have permission to <b>set</b> <b>statuses</b> for tasks.

Operatio n	Procedure	Remarks	
Upload attachme nt	Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.	You must have permission to <b>upload</b>	
	<ol> <li>Go to the work item details page, and click the Attachment tab.</li> </ol>	attachmen ts for tasks.	
	<ol> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box.</li> <li>When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> </ol>		
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.		
	<ul> <li>Click download the file.</li> </ul>		
	<ul> <li>Click is to delete the uploaded file.</li> </ul>		

Operatio n	Procedure	Remarks
Add and check related items	A work item can be associated with other types of work items in a project.	You must have
	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permissior to associate/
	Figure 7-66 Related items	dissociate parent
	Details @ Attachment 0 C Related Items 0 O Workload O History	task, create/ delete
	> Parent Task(0) 🖉 Associate	child requireme nts,
	> Child Tasks(0)	associate/ dissociate
	> Associate Work Item(0)   @ Associate	work items,
	> Files (0)   🖉 Associate	associate, dissociate
	> Wiki(0)   🖉 Associate	files, and associate, dissociate
	2. Complete association.	wikis for
	<ul> <li>Parent Task: parent task to which a task belongs. You can choose Associated Items &gt; Parent Task of a child task to view the task only when the task contains child tasks.</li> </ul>	tasks.
	• <b>Child Task</b> : tasks included in the current task. Each task can be broken down into a maximum of 10 child tasks at a time. One child task is displayed by default and cannot be deleted.	
	1. Click <b>Break Down</b> . The <b>Break Down Child</b> <b>Tasks</b> window is displayed.	
	2. Configure the information about the child task. Click 🔟 to expand and configure more information.	
	3. Click <b>OK</b> . The child task is created successfully. The child task is automatically displayed under the parent task in the task list.	
	<ul> <li>Associate Work Item: associated work items of other types in the project.</li> <li>Work items of the RR, FE, IR, SR, AR, and bug types can be associated.</li> </ul>	
	• Files: files corresponding to the task. Select a file associated with the current task. You can upload a local file.	

Operatio n	Procedure	Remarks
	<ul> <li>Wiki: wikis corresponding to the task.</li> <li>Select a wiki associated with the current task.</li> <li>You can create a wiki.</li> </ul>	
Add workload	<ol> <li>Go to the details page of a work item and click Workload.</li> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> <li>Enter the workload information.         <ul> <li>The end date cannot be earlier than the start date.</li> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> <li>You can select Total or Daily for Workload.</li> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul> </li> <li>Click OK. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	You must have permission to <b>add</b> <b>person-</b> <b>hours</b> for tasks. Workloads can be edited and deleted by the creator. By default, the project administrat or can edit and delete all workloads.
View operation history	<ul> <li>History displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload adding.</li> <li>1. Go to the work item details page.</li> <li>2. Click the History tab. <ul> <li>Click I or I to check historical records in the ascending or descending order of operation time.</li> <li>You can set search criteria to query historical records that meet the search criteria.</li> </ul> </li> </ul>	You must have permission to <b>view</b> tasks.

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag at the top of the page, and select Create Tag. The added tag is displayed in the Tag area.</li> </ol>	You must have permission
	<ol> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> </ol>	to <b>edit</b> tasks.
	3. Click <b>OK</b> . The new tag is displayed next to the requirement ID in the RR list.	
	4. (Optional) Hide a tag.	
	<ul> <li>Click + next to Tag. In the displayed dialog box, deselect √ to hide the tag.</li> </ul>	
	Figure 7-67 Hiding a tag - 01	
	Tag 🕂 🤄 🖓 Break Down Subrequ	
	Q Enter a keyword.	
	Plann • xuqiu1	
	+ Create Tag	
	<ul> <li>Move the cursor to the tag name and click is to hide the tag.</li> </ul>	
	Figure 7-68 Hiding a tag - 02	
	Tag + • xuqiu1 • xuqiu1	
	<b>NOTE</b> If you need to add tags for multiple work items, you can select the desired work item, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the <b>Details</b> tab page, click the <b>Comments</b> text box.</li> <li>Figure 7-69 Adding a comment</li> </ol>	You must have permission to <b>view</b> tasks.
	Comments All ▼ 47 ▲ IΞ Ξ ☎ 図 Ø ℃ € \$3 Enter a comment. Use @ to notify others.	
	Submit Cancel	
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> </ol>	
	<ol> <li>Click Submit. Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 7.8 Creating and Managing Bugs

## 7.8.1 Bug Status Transition Process

The entire lifecycle of a defect has five states: **Analyzing**, **Fixing**, **Testing**, **Accepting**, and **Closed**. **Figure 7-70** shows the complete status transition process.

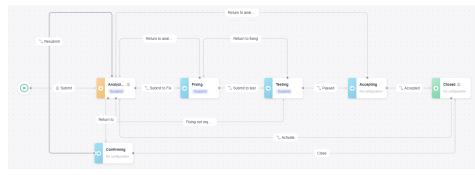
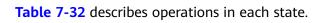


Figure 7-70 Bug status transition flowchart



Status	Description
	Creating bugs By default, the bug proposer is the person who finds the bug.
Analyzing	<ul> <li>After the bug is submitted, the state changes to Analyzing.</li> <li>The current owner analyzes the bug as follows:</li> <li>If the analysis result shows that the bug is not a problem, click Fixing not required to transfer the bug to the proposer.</li> <li>If the description is incorrect, click Return To to transfer the bug to the current owner for modification.</li> <li>After the analysis is complete, click Submit to Fix.</li> </ul>
Fixing	After the bug is analyzed, the state changes to <b>Fixing</b> . The current owner fixes the bug based on the problem.
Testing	After the bug is fixed, the state changes to <b>Testing</b> . The current test owner verifies whether the problem is fixed based on the rectification result. If the result does not meet the expectation, the test owner can return it for fixing or analysis.
Accepting	After the bug is tested, the state changes to <b>Accepting</b> . The current acceptance owner tracks the result of the acceptance test.
Closed	After the acceptance is passed, the state changes to <b>Closed</b> . A closed bug can be activated. After a bug being activated, its state will change to <b>Analyzing</b> .

#### Table 7-32 Operation description

## 7.8.2 Creating Bugs

You can create a bug to trace the problems found in the test and verification phase of software features and functions.

## Prerequisites

An IPD-standalone software project is available, in which you have permission to **create and duplicate** bugs.

### **Creating a Bug**

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Defects**.
- Step 3 Click Bug. On the Bug page, set related parameters.

Table 7-33	Creating	a bug
------------	----------	-------

Parameter	Description
Title	Title of a work item.
Description	Enter the fault symptom description, environment information, onsite fault locating developers, and the preliminary cause determined by developers based on site requirements. Use text, images, or links.
Attachmen t	A maximum of 100 attachments can be added to a bug, and the total capacity is 50 MB.
Proposed Project	Project to which the bug creator belongs, which cannot be changed.
Responsibl e Project	Project to which a bug belongs.
Raised By	Test personnel who find the bug.
Owner	Owner of the bug. Select one or more members of the responsible project.
Module	Module to which a bug belongs.
	The module value can be customized as follows:
	1. Click <sup>(2)</sup> . The <b>Modules</b> dialog box is displayed.
	2. Click <b>Create</b> .
	<ol> <li>Set Module, Description, and Owner.</li> <li>The value of Module must be unique.</li> </ol>
	4. Click <b>OK</b> .
	After a module is created, you can edit and delete the module, and add child modules.
Severity	Severity of a bug. The options are <b>Info</b> , <b>Minor</b> , <b>Major</b> , and <b>Critical</b> .
Responsibl	Release plan where a bug is found.
e Release	This parameter has a value only after the operations in <b>Creating</b> <b>Release and Sprint Plans</b> are completed.
	The parameter value can be empty. You can create a release and then associate it with the release.
Environme nt	Environment where a bug is found. The options are development self-test environment, test environment, and production environment.
Сору То	Other members in the project. The selected members will receive a system notification.
Expected Rectificatio n	Planned rectification time.

**Step 4** Click **Submit**. The **Bugs** tab page is displayed, and a message is displayed in the upper right corner, indicating that the bug is created successfully.

The new bug is displayed in the bug list, and the state is **Analyzing**.

**NOTE** 

After a bug is created, the people selected for **Owner**, **Raised By**, and **Copy To** will receive email notifications and internal message notifications. If not, set notifications or modify notification settings. For details, see **Configuring Notifications**.

----End

#### **Related Operations**

You can perform the following operations on a new bug.

Operation	Description
Modify bug title	Click 🖉 next to a bug title to modify it.
Modify bug field	Click the target field value in the row of a bug to modify the value.
Duplicate bug	Click $\textcircled{\oplus}$ in the <b>Operation</b> column. This process is the same as that of creating a bug.
Migrate bug	Click  in the <b>Operation</b> column of a bug to migrate it to other projects.
	• Bugs in a <b>Done</b> state cannot be migrated.
	After migration,
	The bug will be handled again.
	<ul> <li>The actual workload, related items, tags, discovering PI, and fixing PI of the bug will be cleared.</li> </ul>
	• Only the custom bug fields of the target project will be displayed.
Collaborat e on bug	Click 🛱 in the <b>Operation</b> column of a bug to assign it to other projects under your tenant.

Table 7-34 Basic operations on a bug

Operation	Description
Delete bug	Choose <b>&gt; Delete</b> in the <b>Operation</b> column of a bug to delete it.
	<ul> <li>Bugs that are being reviewed or in a <b>Doing</b> state cannot be deleted.</li> <li>If you delete drafted bugs, they are permanently deleted.</li> </ul>
	• Bugs in a <b>To Do</b> state can be deleted only in the proposing project. Bugs in a <b>Done</b> state can be deleted in both the proposing project and the responsible project.
	<ul> <li>If you delete bugs of the proposing project, they are permanently deleted. If you delete bugs in the responsible project, they are moved to the project's recycle bin.</li> </ul>
	<ul> <li>Bugs in the recycle bin can be restored or permanently deleted. After being restored, bugs restore to their original status.</li> </ul>

# 7.8.3 Managing Bugs

After creating a bug (see **Creating a Bug**), you can perform the operations described in this section on it.

#### On the Bug List Page

On the project homepage, choose **Work > Defect > Defects** and perform the following operations:

#### Figure 7-71 Bug list

Homepage	e / IPD- Free Trail / Work								
Raw Requ	irements Feature Tree R&D Requirements Tasks	Defects Review	Statistics Plans				0	Feedback 🗊 Rec	ycle Bin
This Project	ct Other Projects + Bug All • Q Add file	15.							
	Title 🛞 🍸		Status T	Days Idle 🌐 🍸	Severity 🕘 T	Owner 🕒 🍸	Responsible Project	Operation	¢
	Bug BUG20240914717901		Analyzing	2 days	● Info		IPD-	⊕ ₿ …	
	Bug BUG20240914720802		Analyzing	2 days	● Info		IPD-	0 D ···	

Operatio n	Procedure
Search for bug	<ul> <li>By adding filters</li> <li>1. Click the search box in the bug list and select one or more filters to search for bugs.</li> </ul>
	2. To clear all filters and display all data, click $^{ imes}$ on the right of the search bar.
	• By using a saved view
	<ol> <li>Click the search box in the task list and select one or more filters.</li> </ol>
	2. Click 🖾 on the rightmost of the search bar, and enter a view name.
	<ol><li>Click Confirm. The created view is displayed next to the Bug button.</li></ol>
	<ol> <li>Select the created view to query the bugs that meet the search criteria.</li> <li>Views can be shared with others, modified, and deleted.</li> </ol>
_	
Import work	Importing bugs: Use a template to import bugs in batches.
items	1. In the bug list, click *** on the right of the search bar and select <b>Import</b> .
	<ol> <li>In the displayed dialog box, click <b>Download Template</b>. The import template file is displayed in the lower part of the page. Save the file to the local PC and fill in data. The template file should be named in the following format: <i>Project name</i> + "-" + <i>Module name</i> (for example, <b>Bug</b>) + <b>Template</b>.</li> </ol>
	3. Fill in the fields on the <b>Bug - List</b> sheet. For details about how to set parameters, see the <b>Bug - Import</b>
	Rules sheet in the template file.
	4. Drag or click 다 to select a file to be imported.
	5. Click <b>Import</b> . The import progress dialog box is displayed.
	• After the import is successful, you can view the imported bug information in the task list.
	• If the import fails, a message is displayed in the upper right corner of the page. Click <b>View Failure Details</b> in the message to view the failure details. You can modify the requirement information based on the details and import the template again.
	NOTE For details about operations on import records, see Viewing Work Item Import/Export Records.

Table	7-35	Operations	in	the	bug l	ist
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Operatio n	Procedure
Export work items	Export bugs in batches to an Excel file. 1. Export some or all bugs.
items	<ul> <li>Export all: On the <b>Defects</b> page, click <sup>***</sup> on the right of the search bar and choose <b>Export</b>. The <b>Select Fields to Export</b> dialog box is displayed.</li> </ul>
	<ul> <li>Export some: In the bug list, select one or more bugs to be exported and click Export at the bottom of the page. The Select Fields to Export dialog box is displayed.</li> </ul>
	2. Select the fields to be exported.
	<ol> <li>Click Export. A dialog box is displayed, indicating the export progress.</li> <li>After the bugs are exported, the bug file will be automatically downloaded to the local PC. The file format is .xlsx.</li> </ol>
	NOTE For details about operations on export records, see Viewing Work Item Import/Export Records.
Configure fields to display	Click 🍄 next to the <b>Operation</b> field.
	• On the left of the pop-up box, select the fields to be displayed in <b>Available</b> .
	• On the right of the pop-up box, drag the fields in <b>Selected</b> to adjust the display sequence.

#### On the Bug Details Page

On the details page of a bug, you can modify the description, priority, and owner, add tags and attachments, associate work items, check review records, add workloads, and view the operation history.

Figure 7-72 Bug details page			
BUG20240914720221 hwstaff_p_PaaSDevSpore created at Sep 14, 2024 11:02: Tag +	Return to Fixing not	equired Submit	to Fix $\bullet$ $\bullet$
Bug1			
Analyzing Fixing Testing	Accept	ing	Closed
Details     P Attachment 0      P Related Items 1      P Review      Workload      C History			
🕆 - Description	🖉 Edit	* Status	Analyzing
[ ]	[]	Proposed Pro	IPD
		Raised By	
kakakakakak		* Responsible	IPD
[ ] mmmmmm		* Owner	
[ ]		Module	-Select-
			• Minor
		Responsible	-Select-
Comments	All 👻 JF	Responsible	Select Responsible Release firs
Enter a comment. Use @ to notify others.		Environment	Select
Sep 14, 2024		Сору То	Select
H Bug submitted	09-14 11:02:23	Domain	-Select-
i bug submitte		B Expected Re	Select
		Planned Start	-Select-
		Planned Com	Select
		Planned 🔘	Required.

#### datail 7.72 B -.

Operatio n	Procedure	Remarks
Edit work item	On the bug details page, click the value box of the field to be modified, and enter a target value in the text box or select one from the drop-down list. The modification is saved immediately.	You must have permission to <b>edit</b> bugs.
Change work item status	Go to the work item details page, click the <b>Status</b> field, and transition the work item to the target status. For details about status transition, see <b>Table 7-32</b> .	You must have permission to update the status for bugs.

Operatio n	Procedure	Remarks	
Upload attachme nt	Attachments can be pictures, workbooks, manuscripts, and text files. A maximum of 100 attachments can be added to each work item, and their total size cannot exceed 50 MB.	You must have permission to <b>upload</b>	
	<ol> <li>Go to the work item details page, and click the Attachment tab.</li> </ol>	<b>attachmen</b> <b>ts</b> for bugs.	
	<ol> <li>Click the box to select a local file or drag the file here to upload it as an attachment for the work item.</li> <li>Local files can be directly dragged to the text box.</li> <li>When the upload progress reaches 100%, the system displays a message indicating that the attachment is uploaded successfully.</li> </ol>		
	Move the cursor to the file that is successfully uploaded. The operations that can be performed are displayed.		
	<ul> <li>Click download the file.</li> </ul>		
	<ul> <li>Click is to delete the uploaded file.</li> </ul>		

Operatio n	Procedure	Remarks
Add and check	A work item can be associated with other types of work items in a project.	You must have
related items	<ol> <li>Go to the work item details page and click the Related Items tab.</li> </ol>	permission to associate/
	Figure 7-73 Related items	dissociate work items,
	Details @ Attachment 0 2 Related Items 1 A Review C Workload C History	associate/ dissociate
	> Subrequirement(0)   C Break Down $O$ Associate	files, and associate/
	> Related Upstream Requirements(0)	dissociate wikis for
	Related Downstream Requirements(1)	bugs.
	> Associate Work Item(0)   + Create @ Existing	
	> Files (0) 🖉 Associate	
	> Wiki(0) @ Associate 2. Complete association.	
	<ul> <li>Associate Work Item: associated work items of other types in the project. Associating with existing RRs: You can associate an RR only after it is successfully created.</li> </ul>	
	Associating with existing IRs, SRs, and ARs: You can associate IRs, SRs, and ARs only after creating and breaking down R&D requirements.	
	Associating with tasks: You can associate a task only after the task is successfully created. You	
	can click ${}^{i\!2}$ to cancel the association.	
	You can choose <b>Associated Items &gt; Parent Task</b> of a child task to view the task only when the task contains child tasks.	
	• Synergistic Bug: bugs assigned to other projects for collaboration. Batch assignment is supported. A maximum of 10 bugs can be assigned at a time. One bug is assigned by default and cannot be deleted.	
	1. Click <b>Collaborative delivery</b> . The <b>Collaborative delivery</b> window is displayed.	
	2. Configure the information about bug assignment. Click 💷 to expand and configure more information.	

Operatio n	Procedure	Remarks
	3. Click <b>OK</b> . The bug is assigned. The bug can only be viewed and handled in the responsible project.	
	<b>NOTE</b> After you assign a bug, its attachment will not be synchronized to the downstream bugs. The owners of these downstream bugs can contact you for the attachment.	
	• <b>Files</b> : files corresponding to the bug. Select a file associated with the current bug. You can upload a local file.	
	<ul> <li>Wiki: wiki corresponding to the bug. Select a wiki associated with the current bug. You can create a wiki.</li> </ul>	
	<ul> <li>Test Plan: Test plan related to the current bug. You can associate test plans with the current bug.</li> </ul>	
	<ul> <li>Test Case: Test case related to the current bug. You can select bugs associated with test cases in CodeArts TestPlan.</li> </ul>	
	• <b>Code Commit Record</b> : Code submission record related to the current bug. Related information is displayed only when the current bug is associated during code commit.	
	<ul> <li>Code Branch: Code branch related to the current bug.</li> <li>Related information is displayed only when the code branch is associated with the current bug.</li> </ul>	

Operatio n	Procedure	Remarks
Add workload	<ol> <li>Go to the details page of a work item and click Workload.</li> </ol>	You must have permission to <b>add</b>
	<ol> <li>Click Add Workload. The Add Workload dialog box is displayed.</li> </ol>	
	3. Enter the workload information.	person- hours for
	<ul> <li>The end date cannot be earlier than the start date.</li> </ul>	bugs. Workloads
	<ul> <li>Decide whether to select Weekends included. If not, weekend workload records will not be generated.</li> </ul>	can be edited and deleted by
	<ul> <li>You can select <b>Total</b> or <b>Daily</b> for <b>Workload</b>.</li> </ul>	the creator.
	<ul> <li>Work Type options include backend development, frontend development, UI design, replacement leave, debugging, and general. You can also customize the value by referring to Creating Work Types.</li> </ul>	By default, the project administrat or can edit and delete all workloads.
	<ol> <li>Click <b>OK</b>. The system automatically generates corresponding records based on the entered dates and days. The workload can be edited and deleted.</li> </ol>	
View operation history	<b>History</b> displays all operation logs of users, including creation, status transition, review initiation, work item association, and workload adding.	You must have permission
	1. Go to the work item details page.	to <b>view</b> bugs.
	2. Click the <b>History</b> tab.	buys.
	<ul> <li>Click = or = to check historical records in the ascending or descending order of operation time.</li> </ul>	
	<ul> <li>You can set search criteria to query historical records that meet the search criteria.</li> </ul>	

Operatio n	Procedure	Remarks
Tag work item	<ol> <li>Go to the work item details page. Click + next to Tag and select Create Tag. The added tag is displayed in the Tag area.</li> </ol>	You must have permission
	<ol> <li>In the Create Tag dialog box, set Tag Name and select Tag Color.</li> </ol>	to <b>edit</b> bugs.
	3. Click <b>OK</b> . The new tag is displayed next to the requirement ID in the RR list.	
	4. (Optional) Hide a tag.	
	<ul> <li>Click</li></ul>	
	Figure 7-74 Hiding a tag - 01	
	Tag 🕂 🤄 🧠 Break Down Subrequ	
	Q Enter a keyword.	
	Plann • xuqiu1	
	+ Create Tag	
	<ul> <li>Move the cursor to the tag name and click is to hide the tag.</li> </ul>	
	Figure 7-75 Hiding a tag - 02	
	Tag + • xuqiu1 • xuqiu1	
	NOTE If you need to add tags for multiple work items, you can select the desired work item, click <b>Batch Edit</b> in the lower part of the page, and select <b>Tag</b> .	

Operatio n	Procedure	Remarks
Add comment	<ol> <li>Go to the work item details page.</li> <li>On the <b>Details</b> tab page, click the <b>Comments</b> text box.</li> <li>Figure 7-76 Adding a comment</li> </ol>	You must have permission to <b>view</b> bugs.
	Comments All * 45	
	<ol> <li>Enter a comment. You can upload images, enter links, associate work items, and use @ to notify project members in comments.</li> </ol>	
	<ol> <li>Click Submit.</li> <li>Submitted comments can be replied, edited, pinned to the top, and deleted.</li> </ol>	

# 7.9 Reviewing Work Items

# 7.9.1 IPD-Standalone Software Project Reviews

IPD-standalone software projects have three review types: change review (CR), baseline review (BR), and general review (GR). They are described in **Table 7-37**.

Review Type	Description	Review Object
Change review (CR)	• Changing the controlled fields of a raw requirement or bug will initiate a change review. The change will be synchronized to the requirement and bug only after the review is approved.	Raw requirements, system features, R&D requirements, and bugs
	<b>NOTE</b> The control status of a raw requirement and bug is determined by whether any controlled fields are configured for specific status. A field is deemed under control when a raw requirement or bug is in the specified status.	
	<ul> <li>Changing the baselined fields of a system feature or R&amp;D requirement will initiate a change review. The change will be synchronized to the feature and requirement only after the review is approved.</li> </ul>	
Baseline review (BR)	To baseline a system feature or R&D requirement, you need to initiate a baseline review. The feature and requirement will be baselined only after the review is approved.	Systems features and R&D requirements
General review (GR)	To review a work item, you can initiate a general review. The work item takes effect only after the review is approved.	Raw requirements, system features, R&D requirements, and bugs

 Table 7-37 Review types

# 7.9.2 Creating and Completing Work Item Reviews

#### 7.9.2.1 Creating and Completing CRs

When a raw requirement, system feature, R&D requirement, or bug is under control or baselined, you can perform the following steps to modify their controlled or baselined fields.

#### Creating a CR

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Create a CR in either of the following ways:

 On the project homepage, go to the raw requirement, feature tree, R&D requirement, or bug list page, select a controlled raw requirement or bug, or a baselined system feature or R&D requirement, and modify a parameter marked with the i icon. In the displayed dialog box, click OK. • On the project homepage, choose **Review** > **Change Review**. Then click **CR**.

**Step 3** On the **CR** page, set the required parameters.

Parameter	Description
CR Title	<ul> <li>Title of the review.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 256 characters.</li> </ul>
Description	<ul><li>Enter the background, value, and details of the review.</li><li>Use text, images, or links.</li><li>Include 1 to 50,000 characters.</li></ul>
Start time	The time when you want the review to start.
Completes	The time when you want the review to complete.
Require Decision- Making	This parameter is available only when <b>Require Decision-</b> <b>Making</b> is enabled on the <b>Settings &gt; Work &gt; Review</b> page. <b>NOTE</b> If <b>Require Decision-Making</b> is set to <b>No</b> , no approver needs to be specified. The review will skip the decision-making phase.
Сору То	Select the project members you want to inform about this review.

Parameter	Description
Change Object	Add the objects to be changed, including raw requirements, system features, R&D requirements, and bugs.
	• Raw requirements can be selected only when they are in the <b>Confirming</b> , <b>Planning</b> , or <b>Implementing</b> state. After adding change objects, modify controlled fields (marked with ), and set <b>Approver</b> and <b>Reviewer</b> .
	• System features and R&D requirements can be selected only when they are baselined. After adding change objects, modify controlled fields (marked with ), and set <b>Approver</b> and <b>Reviewer</b> .
	• Bugs can be selected only when they are in a status in which a controlled field is editable. After adding change objects, modify controlled fields (marked with ), and set <b>Reviewer</b> and <b>Review Expert</b> .
	NOTE
	If <b>Review Expert</b> is not set, the review phase will be skipped. The options of <b>Review Expert</b> are project members. You can select multiple ones.
	For systems features and R&D requirements:
	The options of <b>Reviewer</b> can be configured on the <b>Settings</b> > <b>Work</b> > <b>Review</b> page. The default options are project administrator and project manager. You can select only one option.
	For raw requirements:
	• If the proposing project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, and requirement owner of the responsible project. You can select only one option.
	• If the responsible project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, and requirement submitter of the proposing project. You can select only one option.
	For bugs:
	• If the proposing project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, test manager, and bug owner of the responsible project. You can select only one option.
	• If the responsible project initiates a change review, the options of <b>Reviewer</b> include the project administrator, project manager, test manager, and bug creator of the proposing project. You can select only one option.
Associated Files	Attachments, wikis, and documents related to the review. <b>NOTE</b> If the change objects include a raw requirement and bug, files can be associated only when the proposing and responsible projects are the same.
Collaborative Parent Item Change	Existing change reviews you wish to collaboratively complete with the current review.

#### Step 4 Click Submit.

You can view the new CR in the change review list.

----End

#### Completing a CR

This operation is performed by the specified review experts and reviewer of a CR.

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Review** > **Change Review**.
- **Step 3** Click the title of a CR in the **To Be Reviewed** state. The CR details page is displayed on the right.
- **Step 4** Click the  $\square$  icon in the row that contains the target change object, and set the required parameters.

#### Figure 7-77 Review by review experts

Expert Review	×
Result	
O Approve O Reject O Transfer to others	
* Comment	
	0/300
	OK Cancel
Expert Comments	
No comments so far	

#### Table 7-39 Review by review experts

Parameter	Description
Result	Select your review result.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another review expert.
Comment	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Expert Comments	Comments of other review experts.

**Step 5** Select a review result (**Approve** or **Reject**) and click **OK**.

#### **NOTE**

After the expert review is completed, the final review result can be determined using the selected method on the **Settings > Work > Review** page.

- By single reviewer: A CR is complete when one review expert approves or rejects it.
- **By all reviewers**: A CR is complete when all review experts approve it or one review expert rejects it.
- **By pass rate**: A CR is complete when "Number of review experts who approve the review/Total number of review experts × 100% ≥ Pass rate", or "Number of review experts who reject the review/Total number of review experts × 100% > 1 Pass rate".

If a CR's result in the review phase is **Rejected**, the CR skips the decision-making phase and its final result is **Rejected**.

After the review phase of all change objects in the CR is complete, the CR status changes to **Decisioning**.

- **Step 6** Click the title of a CR in the **To Be Approved** state. The CR details page is displayed on the right.
- **Step 7** Click the  $\stackrel{\circ}{=}$  icon in the row that contains the target change object, and set the required parameters.

#### Figure 7-78 Decision-making by reviewer

Decide by reviewer		×
Result		
O Approve O Reject O Transfer to others		
Comments		
		0/300
	OK	Cancel
Expert Comments		
No comments so far		

#### Table 7-40 Decision-making by reviewer

Parameter	Description
Result	Select your decision.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another reviewer.
Comments	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Review Result	The result of the review phase for your reference.

Parameter	Description
	Results and comments of review experts in the review phase for your reference.

**Step 8** Select **Approve** or **Reject** for **Result**, and click **OK**. The CR object's approval result is displayed after its decision-making process is complete.

#### **NOTE**

The CR status changes to **End** only after the decision-making process of all change objects is complete.

----End

#### 7.9.2.2 Creating and Completing BRs

When your system features and R&D requirements need to be baselined, perform the following steps to initiate a baseline review.

#### Creating a BR

#### Step 1 Access the CodeArts Req homepage.

**Step 2** Create a BR in either of the following ways:

- On the project homepage, go to the feature tree or R&D requirement list page, select unbaselined system features or R&D requirements, and click Baseline Review in the pop-up box.
- On the project homepage, choose **Review** > **Baseline Review**. Then click **BR**.
- Step 3 On the BR page, set the required parameters.

Parameter	Description
BR Title	<ul> <li>Title of the review.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 256 characters.</li> </ul>
Description	<ul><li>Enter the background, value, and details of the review.</li><li>Use text, images, or links.</li><li>Include 1 to 50,000 characters.</li></ul>
Start time	The time when you want the review to start.
Completes	The time when you want the review to complete.

Table 7-41 Creating a BR

Parameter	Description
Require Decision- Making	This parameter is available only when <b>Require Decision-</b> <b>Making</b> is enabled on the <b>Settings &gt; Work &gt; Review</b> page. <b>NOTE</b> If <b>Require Decision-Making</b> is set to <b>No</b> , no approver needs to be specified. The review will skip the decision-making phase.
Reviewer	The options of <b>Reviewer</b> can be configured on the <b>Settings</b> > <b>Work</b> > <b>Review</b> page. The default options are project administrator and project manager. You can select only one option.
Review Expert	If <b>Review Expert</b> is not set, the review phase will be skipped. The options of <b>Review Expert</b> are project members. You can select multiple ones.
Сору То	Select the project members you want to inform about this review.
Baseline Object	<ul> <li>Add the objects to be baselined, including system features and R&amp;D requirements.</li> <li>Only system features and R&amp;D requirements that are not baselined can be added.</li> </ul>
Associated Files	Attachments, wikis, and documents related to the review.

#### Step 4 Click Submit.

You can view the new BR in the baseline review list.

----End

#### Completing a BR

This operation is performed by the specified review experts and reviewer of a BR.

- Step 1 Access the CodeArts Req homepage.
- **Step 2** On the project homepage, choose **Review** > **Change Review**.
- **Step 3** Click the title of a BR in the **To Be Reviewed** state. The BR details page is displayed on the right.
- **Step 4** On the details page, click **Expert Review** in the upper right corner. In the displayed dialog box, set the required parameters.

igure 7 75 Neview by review experts	
Expert Review	×
* Result	
O Approve Reject Transfer to others	
Comment	
	0/300
Expert Comments	OK Cancel
No comments so far	

Figure 7-79 Review by review experts

#### Table 7-42 Review by review experts

Parameter	Description
Result	Select your review result.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another review expert.
Comment	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Expert Comments	Comments of other review experts.

#### **Step 5** Select a review result (**Approve** or **Reject**) and click **OK**.

#### **NOTE**

After the expert review is completed, the final review result can be determined using the selected method on the **Settings > Work > Review** page.

- By single reviewer: A BR is complete when one review expert approves or rejects it.
- **By all reviewers**: A BR is complete when all review experts approve it or one review expert rejects it.
- By pass rate: A BR is complete when "Number of review experts who approve the review/Total number of review experts × 100% ≥ Pass rate", or "Number of review experts who reject the review/Total number of review experts × 100% > 1 – Pass rate".

If a BR's result in the review phase is **Rejected**, the BR skips the decision-making phase and its final result is **Rejected**.

- **Step 6** Click the title of a BR in the **To Be Approved** state. The BR details page is displayed on the right.
- **Step 7** On the details page, click **Decide by reviewer** in the upper right corner. In the displayed dialog box, set the required parameters.

······································	
Expert Review	×
Result	
O Approve Reject Transfer to others	
• Comment	
	0/300
	OK Cancel
Expert Comments	
No comments so far	

#### Figure 7-80 Decision-making by reviewer

 Table 7-43 Decision-making by reviewer

Parameter	Description	
Result	<ul><li>Select your decision.</li><li>Approve: You agree with the change.</li></ul>	
	Reject: You do not agree with the change.	
	• <b>Transfer to others</b> : Transfer the review to another reviewer.	
Comments	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .	
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>	
	Include 1 to 300 characters.	
Review Result	The result of the review phase for your reference.	
Expert Comments	Results and comments of review experts in the review phase for your reference.	

**Step 8** Select **Approve** or **Reject** for **Result**, and click **OK**. The BR status changes to **End**.

----End

#### 7.9.2.3 Creating and Completing GRs

When your work items need to be reviewed, perform the following steps to initiate a general review.

#### Creating a GR

Step 1 Access the CodeArts Req homepage.

**Step 2** On the project homepage, choose **Review** > **General Review**. Then click **GR**.

**Step 3** On the **GR** page, set the required parameters.

Parameter	Description
GR Title	<ul> <li>Title of the review.</li> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> <li>Include 1 to 256 characters.</li> </ul>
Description	<ul><li>Enter the background, value, and details of the review.</li><li>Use text, images, or links.</li><li>Include 1 to 50,000 characters.</li></ul>
Start time	The time when you want the review to start.
Completes	The time when you want the review to complete.
Require Decision- Making	This parameter is available only when <b>Require Decision-</b> <b>Making</b> is enabled on the <b>Settings &gt; Work &gt; Review</b> page. <b>NOTE</b> If <b>Require Decision-Making</b> is set to <b>No</b> , no approver needs to be specified. The review will skip the decision-making phase.
Reviewer	The options of <b>Reviewer</b> can be configured on the <b>Settings</b> > <b>Work</b> > <b>Review</b> page. The default options are project administrator and project manager. You can select only one option.
Review	If <b>Review Expert</b> is not set, the review phase will be skipped.
Expert	The options of <b>Review Expert</b> are project members. You can select multiple ones.
Сору То	Select the project members you want to inform about this review.
Associated Object	Add the objects to be reviewed, including raw requirements, system features, R&D requirements, and bugs.
Associated Files	Attachments, wikis, and documents related to the review.

#### Step 4 Click Submit.

You can view the new GR in the general review list.

----End

#### Completing a GR

This operation is performed by the specified review experts and reviewer of a GR.

Step 1 Access the CodeArts Req homepage.

**Step 2** On the project homepage, choose **Review** > **Change Review**.

- **Step 3** Click the title of a GR in the **To Be Reviewed** state. The GR details page is displayed on the right.
- **Step 4** On the details page, click **Expert Review** in the upper right corner. In the displayed dialog box, set the required parameters.

Figure 7-81 Review by review experts

Expert Review	×
Result	
Approve Reject Transfer to others	
• Comment	
	0/300
	OK Cancel
Expert Comments	
No comments so far	

#### Table 7-45 Review by review experts

Parameter	Description
Result	Select your review result.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another review expert.
Comment	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Expert Comments	Comments of other review experts.

#### Step 5 Select a review result (Approve or Reject) and click OK.

#### **NOTE**

After the expert review is completed, the final review result can be determined using the selected method on the **Settings > Work > Review** page.

- By single reviewer: A GR is complete when one review expert approves or rejects it.
- **By all reviewers**: A GR is complete when all review experts approve it or one review expert rejects it.
- By pass rate: A GR is complete when "Number of review experts who approve the review/Total number of review experts × 100% ≥ Pass rate", or "Number of review experts who reject the review/Total number of review experts × 100% > 1 Pass rate".

If a GR's result in the review phase is **Rejected**, the GR skips the decision-making phase and its final result is **Rejected**.

- **Step 6** Click the title of a GR in the **To Be Approved** state. The GR details page is displayed on the right.
- **Step 7** On the details page, click **Decide by reviewer** in the upper right corner. In the displayed dialog box, set the required parameters.

Figure 7-82 Decision-making by reviewer

Decide by reviewer	×
Result	
O Approve O Reject O Transfer to others	
Comments	
	0/300
	ОК Сапсеі
Expert Comments	
No comments so far	

Table 7-46 Decision-making by reviewer

Parameter	Description
Result	Select your decision.
	• <b>Approve</b> : You agree with the change.
	Reject: You do not agree with the change.
	• <b>Transfer to others</b> : Transfer the review to another reviewer.
Comments	Your comments on the change. This parameter is required when <b>Result</b> is <b>Approve</b> or <b>Reject</b> .
	<ul> <li>Use letters, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (()), and spaces.</li> </ul>
	Include 1 to 300 characters.
Review Result	The result of the review phase for your reference.
Expert Comments	Results and comments of review experts in the review phase for your reference.

**Step 8** Select **Approve** or **Reject** for **Result**, and click **OK**. The GR status changes to **End**.

----End

# 7.10 Tracking the Project Progress

# 7.10.1 Tracking the Work Item Progress in the Project Overview

During a project, you can track the work item progress in the project overview.

#### Viewing the Project Overview

In the project overview, statistical charts display all project data in two dimensions.

- **By Release**: Select the release and sprint versions to be viewed.
- By Creation Time: Select the time segment you want to view, including All, Last 7 Days, Last 14 Days, Last 30 Days, Last 90 Days, and Custom.

The following table lists the statistical charts in the project overview.

Table :	7-47	Statistical	charts
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Statistical Chart	Data Description	
Project statistics	Includes the total number of initial requirements, user stories, tasks, bugs, and the processing status (processing, complete, and overdue).	
Release burndown	Displays only when you view information <b>By Release</b> .	
	Includes the remaining workload, total workload, and ideal line.	
	You can select specific work items (IRs, USs, tasks, and bugs) to view and download them.	
Release capacity	Displays only when you view information <b>By Release</b> .	
load	Displays release plans, sprints, and workload of each work item in bar charts.	
Bug trend	Displays only when you view information <b>By Release</b> .	
	Includes the total number of bugs found, the total number of resolved bugs, and the DI value of outstanding bugs.	
Work item statistics for project members (by priority)	Obtains statistics of RRs, SFs, IRs, USs, and tasks by priority in bar charts or tables.	
Work item	Displays only when you view information <b>By Release</b> .	
completion	Completion rate of the selected work items.	
Work items by status	Obtains statistics of RRs, SFs, IRs, USs, tasks, and bugs by work item status in pie charts or tables.	
Work item breakdown	Obtains statistics of RRs, IRs, and USs by required breakdown in pie charts.	
Work item completion rate	Obtains statistics and percentages of RRs, SFs, IRs, USs, tasks, and bugs by completion in pie charts.	
Requirement TTM	Obtains statistics of RRs, IRs, USs based on the average duration from the <b>developing</b> status to the <b>completed</b> status.	
Work item stay days	Obtains statistics of RRs, SFs, IRs, USs, tasks, and bugs by work item status duration (days) in bar charts.	

Statistical Chart	Data Description	
Unfinished work items by member	Obtains statistics of uncompleted RRs, SFs, IRs, USs, tasks, and bugs by member in bar charts or tables.	

## 7.10.2 Using Bug Measurement

You can use bug measurement to track the defect progress.

#### Viewing the Bug Measurement

By default, the bug measurement view displays the following statistical charts: bug overview, legacy DI trend, accumulated bugs, bug daily throughput, bug distribution by severity, bug distribution by status, and top 8 owners with legacy bugs.

- Numerical statistical charts: The indicator value represents data for all work items in real time. For example, the total number of bugs in **Bug Overview** is equal to the total number of bugs during statistics collection.
- Trend charts: The indicator value represents the daily data. For example, the total number of legacy bugs on June 7 in **legacy DI Trend** is equal to the total number of legacy bugs on June 7.

The following table lists the statistical charts in bug measurement.

Statistical Chart	Data Description
Bug overview statistics	Collects statistics on the number of bugs whose states are processing, completed, and overdue and whose severities are severe at the current time. Click a number to view the corresponding list.
Legacy DI trend	Collects statistics on the DI trend of legacy bugs in the selected time range.
	• DI: indicates the value calculated based on the weight of bugs at each severity level.
	<ul> <li>Legacy DI = Number of legacy critical bugs x 10 + Number of legacy major bugs x 3 + Number of legacy minor bugs x 1 + Number of legacy suggestion bugs x 0.1</li> </ul>
Accumulated bugs	Shows the trends of accumulated bugs found, resolved bugs, and legacy bugs.
	Cumulative number of legacy bugs = Cumulative number of found bugs – Cumulative number of resolved bugs.
Bug daily throughput	Collects the number of bugs found and fixed in the selected time period.

Statistical Chart	Data Description
Bug distribution by severity	Collects statistics on the number of bugs by severity at the current time.
Bug distribution by status	Collects statistics on the number of bugs by status at the current time.
Top 8 owners with legacy bugs	Collects top 8 owners of legacy bugs at the current time and displays the bug number.

# **8** (Optional) Checking Audit Logs

Cloud Trace Service (CTS) records operations on CodeArts Req for query, audit, and backtrack.

#### **Operations Supporting Audit Logs**

Operation	Resource Type	Event
Create a permission template	privilege_template	addPrivilegeTemplate
Delete a permission template	privilege_template	deletePrivilegeTemplate
Modify the name or description of a permission template	privilege_template	updatePrivilegeTempla- teNameOrDescription
Modify the specific permissions in a permission template	privilege_template	updatePrivilegeTemplate
Apply a permission template to a project	privilege_template	applyPrivilegeTemplate
Add a user to a role	role_user	addUsersToRole
Delete a user from a role	role_user	deleteUsersFromRole
Modify role permissions	role_privilege	updatePrivilegeOfRole
Add users in batches to a project	project	batchAddRoleUserRela- tion
Modify users in batches in a project	project	batchUpdateRoleUserRe- lation

Table 8-1 CodeArts Req operations recorded by CTS

Operation	Resource Type	Event
Delete users in batches from a project	project	batchDeleteRoleUserRe- lation
Create a project	project	createProject
Update the project name	project	updateProjectName
Update the project creator	project	updateProjectCreator
Update project description	project	updateProjectDescription
Delete a project	project	deleteProject
Archive a project	project	archiveProject
Cancel archiving a project	project	unArchiveProject
Set member reviewers	member	setAuditSwitchOfInvita- teMember
Add a project member	member	addProjectMember
Remove a project member	member	deleteProjectMember
Update a project member role	member	updateProjectMember- Role
Create a custom role	role	createProjectRole
Update a custom role name	role	updateProjectRoleName
Delete a custom role	role	deleteProjectRole
Update permissions of a custom role	role	updateProjectRolePer- mission
Create a common field	issue	createProjectCommon- Field
Delete a common field	issue	deleteProjectCommon- Field
Update a common field	issue	updateProjectCommon- Field
Create a common status	issue	createProjectCommon- State

Operation	Resource Type	Event
Delete a common status	issue	deleteProjectCommon- State
Update a common status	issue	updateProjectCommon- State
Create a module	issue	createProjectModule
Create a submodule	issue	createProjectChildMod- ule
Delete a module	issue	deleteProjectModule
Update a module	issue	updateProjectModule
Create a domain	issue	createProjectDomain
Delete a domain	issue	deleteProjectDomain
Update a domain	issue	updateProjectDomain- Name
Add a custom field to a project	issue	addProjectFieldFor
Create a custom field for a project	issue	createProjectFieldFor
Add a custom status to a project	issue	addProjectStateFor
Delete a work item	issue	deleteProjectIssue

### Checking Audit Logs

Query CodeArts Req traces on the CTS console. For details, see **viewing audit** events.