CodeArts Req

API Reference

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HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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1 Before You Start

1.1 Overview

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

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

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

1.2 Endpoints

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

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

Table 1-1 CodeArts Req endpoints

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

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1.3 Concepts

- Account

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

- IAM user

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

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

- Region

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

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

- Availability zone (AZ)

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

- Project

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

- Project template

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

- Enterprise project

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

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

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2 API Overview

Table 2-1 API overview

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

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3 Calling APIs

3.1 Making an API Request

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

Request URI

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

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

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

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

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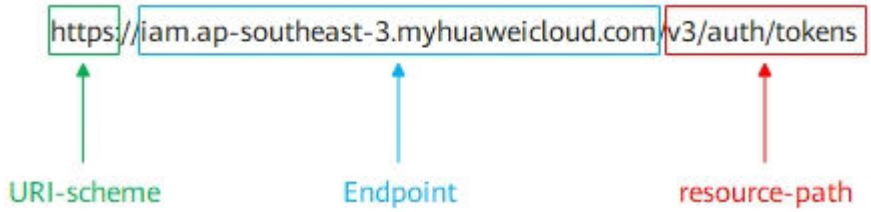
resource-path (/v3/auth/tokens) in the URI of the API for **obtaining a user token**. Then, construct the URI as follows:

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

Figure 3-1 Example URI



NOTE

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

Request Methods

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

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

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

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

Request Header

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

Common request header fields are as follows:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.

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- **X-Auth-Token**: specifies a user token only for token-based API authentication. The user token is a response to the API used to **obtain a user token**. This API is the only one that does not require authentication.

  NOTE

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

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

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

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

Request Body

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

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

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

NOTE

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

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

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

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

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

3.2 Authentication

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

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

Token-based Authentication

NOTE

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

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

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

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

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

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

AK/SK-based Authentication

NOTE

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

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

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

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

NOTICE

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

3.3 Response

Status Codes

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

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

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

Response Header

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

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

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

Response Body

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

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

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

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

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

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

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

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4 API

4.1 Project Space

4.1.1 Obtains the role of the current user.

Function

Obtaining the Role of a User in a Project

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-2 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-3 Response body parameters

Parameter	Type	Description
user_role	Integer	**Definition**: Role ID of a user, which is used to indicate the member role. **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager

Status code: 400

Table 4-4 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-5 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

OK

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```
{
  "user_role" : 3
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowCurUserRoleSolution {

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

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

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

Python

```
# coding: utf-8

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

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

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```
  }
}
```

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.2 Updating a User Nickname

Function

Updating a User Nickname

Calling Method

For details, see **Calling APIs**.

URI

PUT /v4/user

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Request Parameters

Table 4-6 Request header parameters

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

Table 4-7 Request body parameters

Parameter	Mandatory	Type	Description
nick_name	Yes	String	**Definition**: User alias, which is the value of **nick_name** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

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Table 4-8 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-9 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
PUT https://{endpoint}/v4/user

{
  "nick_name" : "Tom"
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class UpdateNickNameV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateNickNameV4Request request = new UpdateNickNameV4Request();
        UpdateUserNickNameRequestV4 body = new UpdateUserNickNameRequestV4();
        body.withNickName("Tom");
        request.withBody(body);
        try {
            UpdateNickNameV4Response response = client.updateNickNameV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateNickNameV4Request()
        request.body = UpdateUserNickNameRequestV4(
            nick_name="Tom"
        )
        response = client.update_nick_name_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateNickNameV4Request{}
    request.Body = &model.UpdateUserNickNameRequestV4{
        NickName: "Tom",
    }
    response, err := client.UpdateNickNameV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.1.3 Obtains the current user information.

Function

Obtains the current user information.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/user

Request Parameters

Table 4-10 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-11 Response body parameters

Parameter	Type	Description
created_time	Long	**Definition**: Creation time, in Unix timestamp format (ms). **Options**: N/A
domain_id	String	**Definition**: Tenant ID. **Constraints**: Regular expression: [a-zA-Z0-9]{32} **Options**: N/A
domain_name	String	**Definition**: Tenant name. **Options**: N/A
gender	String	**Definition**: Gender. The options are: **male** **female** **Options**: **male** and **female**
nick_name	String	**Definition**: User nickname. **Options**: N/A
updated_time	Long	**Definition**: Update time, in Unix timestamp format (ms). **Options**: N/A
user_id	String	**Definition**: User ID. **Constraints**: Regular expression: [a-zA-Z0-9]{32} **Options**: N/A

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Parameter	Type	Description
user_name	String	**Definition**: Username. **Options**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Options**: N/A
user_type	String	**Definition**: User type. The options are as follows: **User** (cloud user) **Federation** (federated account) **Options**: **User** and **Federation**

Status code: 400

Table 4-12 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-13 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/user
```

Example Responses

Status code: 200

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OK

```
{
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "domain_name" : "demo_user_name",
  "user_num_id" : "4060",
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_name" : "demo_user_name",
  "nick_name" : "example_name",
  "created_time" : "1562318865000",
  "updated_time" : "1598074854000",
  "gender" : "male",
  "user_type" : "User"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowCurUserInfoSolution {

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

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

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

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```
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
```

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```
            Build())

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.1.4 Updating the Nickname of a Subuser

Function

This API is used to enable the user with the **te_admin** role to update alias of other users.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v4/domain/child-users

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Request Parameters

Table 4-14 Request header parameters

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

Table 4-15 Request body parameters

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

Table 4-16 UpdateChildUserNickNameRequestBody

Parameter	Mandatory	Type	Description
nick_name	Yes	String	**Definition**: User alias. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
user_id	Yes	String	**Definition**: User ID, which can be obtained from the **ListProjectMembersV4.xml** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-17 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-18 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
PUT https://{endpoint}/v4/domain/child-users

{
  "users" : [ {
    "nick_name" : "Tom",
    "user_id" : "08777d423500d4b01fe5c008d04336ab"
```

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```
 }]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class BatchUpdateChildNickNamesSolution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchUpdateChildNickNamesRequest request = new BatchUpdateChildNickNamesRequest();
        BatchUpdateChildUserNickNamesRequestBody body = new BatchUpdateChildUserNickNamesRequestBody();
        List<UpdateChildUserNickNameRequestBody> listbodyUsers = new ArrayList<>();
        listbodyUsers.add(
            new UpdateChildUserNickNameRequestBody()
                .withNickName("Tom")
                .withUserId("08777d423500d4b01fe5c008d04336ab")
        );
        body.withUsers(listbodyUsers);
        request.withBody(body);
        try {
            BatchUpdateChildNickNamesResponse response = client.batchUpdateChildNickNames(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchUpdateChildNickNamesRequest()
        listUsersbody = [
            UpdateChildUserNickNameRequestBody(
                nick_name="Tom",
                user_id="08777d423500d4b01fe5c008d04336ab"
            )
        ]
        request.body = BatchUpdateChildUserNickNamesRequestBody(
            users=listUsersbody
        )
        response = client.batch_update_child_nick_names(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchUpdateChildNickNamesRequest{}
    var listUsersbody = []model.UpdateChildUserNickNameRequestBody{
        {
            NickName: "Tom",
            UserId: "08777d423500d4b01fe5c008d04336ab",
        },
    }
    request.Body = &model.BatchUpdateChildUserNickNamesRequestBody{
        Users: listUsersbody,
    }
    response, err := client.BatchUpdateChildNickNames(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2 IPD Work Item Process

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4.2.1 This API is used to add a project member.

Function

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

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/{project_id}/member

Table 4-19 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-20 Request header parameters

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

Table 4-21 Request body parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition**: Tenant ID. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
domain_name	No	String	**Definition**: Tenant name. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A
role_id	No	Integer	**Definition**: Role of a member, that is, the role ID of a user in a project. **Constraints**: N/A **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager **10**: product manager **11**: system engineer **Default value**: N/A

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Parameter	Mandatory	Type	Description
user_id	Yes	String	**Definition**: 32–digit UUID of a user. You can obtain the value using the **Obtaining the Current User Information** API. The value of **user_id** in the response message body is the 32-character UUID of the user. **Constraints**: Regular expression: [0-9a-z]{32} **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-22 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-23 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

Status code: 204

No Content

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class AddMemberV4Solution {

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

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

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

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

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```
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.2 Obtaining the Member List of a Specified Project

Function

This API is used to obtain project members.

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Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/members

Table 4-24 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Table 4-25 Query Parameters

Parameter	Mandatory	Type	Description
limit	Yes	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **1,000**. **Default value**: 10

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Parameter	Mandatory	Type	Description
offset	Yes	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. **Constraints**: Minimum value: **0**. **Options**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-26 Response body parameters

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

Table 4-27 members

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

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

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

Status code: 400

Table 4-28 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-29 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

Obtaining the Project Member List

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

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

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.3 Adding Project Members in Batches

Function

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

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/{project_id}/members

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Table 4-30 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-31 Request body parameters

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

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Table 4-32 BatchAddMemberRequestV4

Parameter	Mandatory	Type	Description
role_id	No	Integer	**Definition**: Role ID of a member in a project. **Constraints**: N/A **Options**: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager **Default value**: N/A
user_id	Yes	String	**Definition**: 32-character UUID of a user. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

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Table 4-33 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-34 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class BatchAddMembersV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

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```
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

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

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
```

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

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```
    }
}
```

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.4 Deleting Project Members in Batches

Function

This API is used to delete project members in batches.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v4/projects/{project_id}/members

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Table 4-35 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-36 Request body parameters

Parameter	Mandatory	Type	Description
user_ids	Yes	Array of strings	**Definition**: 32-character UUID of a user. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

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Table 4-37 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-38 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

Deleting Project Members in Batches

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

{
  "user_ids" : [ "uQUErCFv7vWiq01uWTjgMGxtKiBLOLXO", "dbaz0V7U7qOW1wMXEyRb9PNZD6cvMzoM" ],
  "project_id" : "cb84f6ed5f7040c18c9565586ef708ac"
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

Deleting Project Members in Batches

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

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

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

public class BatchDeleteMembersV4Solution {
```

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

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

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

Python

Deleting Project Members in Batches

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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```
        .build()

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

Go

Deleting Project Members in Batches

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

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```
  }
}
```

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-39 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-40 Request header parameters

Parameter	Mandatory	Type	Description
Domain-Id	Yes	String	**Definition**: Tenant ID. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
User-Id	Yes	String	**Definition**: User ID. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Value range**: N/A **Default value**: N/A
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-41 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Status code: 401

Table 4-42 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class AddApplyJoinProjectForAgcSolution {

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

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

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

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

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```
    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.6 Update the role of a member in the project.

Function

Update the role of a member in the project.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-43 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-44 Request header parameters

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

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Table 4-45 Request body parameters

Parameter	Mandatory	Type	Description
role_id	Yes	Integer	**Definition**: Member role. The options are as follows: **–1**: project creator **3**: project manager **4**: developer **5**: test manager **6**: tester **7**: participant **8**: viewer **9**: O&M manager **Constraints**: N/A **Options**: **–1**, **3**, **4**, **5**, **6**, **7**, **8**, and **9** **Default value**: N/A
user_ids	Yes	Array of strings	**Definition**: User ID. You can query the tenant information of a user using the **Obtaining the Current User Information** API. **Constraints**: Regular expression: [a-zA-Z0-9]{32} **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 204

ok

Status code: 400

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Table 4-46 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-47 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class UpdateMembesRoleV4Solution {

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

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```
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateMembesRoleV4Request request = new UpdateMembesRoleV4Request();
        request.withProjectId("{project_id}");
        UpdateMembesRoleV4RequestBody body = new UpdateMembesRoleV4RequestBody();
        List<String> listbodyUserIds = new ArrayList<>();
        listbodyUserIds.add("08777d423500d4b01fe5c008d04336ab");
        body.withUserIds(listbodyUserIds);
        body.withRoleId(7);
        request.withBody(body);
        try {
            UpdateMembesRoleV4Response response = client.updateMembesRoleV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateMembesRoleV4Request()
        request.project_id = "{project_id}"
        listUserIdsbody = [
            "08777d423500d4b01fe5c008d04336ab"
        ]
```

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```
        request.body = UpdateMembesRoleV4RequestBody(
            user_ids=listUserIdsbody,
            role_id=7
        )
        response = client.update_membes_role_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateMembesRoleV4Request{}
    request.ProjectId = "{project_id}"
    var listUserIdsbody = []string{
        "08777d423500d4b01fe5c008d04336ab",
    }
    request.Body = &model.UpdateMembesRoleV4RequestBody{
        UserIds: listUserIdsbody,
        RoleId: int32(7),
    }
    response, err := client.UpdateMembesRoleV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

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Status Codes

Status Code	Description
204	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.2.7 Quitting a Project

Function

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

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v4/projects/{project_id}/quit

Table 4-48 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

None

Response Parameters

Status code: 204

OK

Status code: 400

Table 4-49 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-50 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

DETELE {{url}}/v4/projects/ac069b11a3524163ad6348953e2fe93e/quit
Note: The API has neither a response body nor a return value.
```

Example Responses

None

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.3 Project Information

4.3.1 Querying the Project List

Function

This API is used to query the project list.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects

Table 4-51 Query Parameters

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

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Parameter	Mandatory	Type	Description
search	No	String	**Definition**: Project name or description for fuzzy query. **Constraints**: Advanced query methods like wildcard characters are not supported. **Options**: N/A **Default value**: N/A
project_type	No	String	**Definition**: Project type. **Constraints**: Regular expression: scrum|normal|xboard **Options**: **scrum**, **normal**, and **xboard** **Default value**: N/A
sort	No	String	**Definition**: Sorting criteria. **Constraints**: Regular expression: ((name|author_name|created_on|memcount)(:|%3A|%253A)(asc|desc|ASC|DESC)(,)?){0,4} **Options**: ((name|author_name|created_on|memcount)(:|%3A|%253A)(asc|desc|ASC|DESC)(,)?){0,4}. **Default value**: **desc**

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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-52 Response body parameters

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

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

Table 4-53 projects

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

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Parameter	Type	Description
project_type	String	**Definition**: Project type. **Options**: **scrum**, **normal**, and **xboard**
creator	**creator** object	**Definition**: Creator information. **Options**: N/A

Table 4-54 creator

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

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Status code: 400

Table 4-55 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-56 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 403

Table 4-57 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

Response body parameters

```
{
  "projects" : [ {
    "project_num_id" : 3183801,
    "project_id" : "41bd3eab86544863b8fc92ffcd35e3c8",
    "project_name" : "demo_project",
    "description" : "demo",
    "created_time" : 1576114296000,
    "updated_time" : 1576114296000,
    "project_type" : "xboard",
    "creator" : {
      "user_num_id" : 4097,
      "user_id" : "c4bd39f0573a436589714bedbcca8536",
```

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```
    "user_name" : "modile_user",
    "domain_id" : "2489d8cbba804db8bcd35384685ff3ac",
    "domain_name" : "modile_user",
    "nick_name" : "Tom.M.Riddle"
   }
 } ],
 "total" : 10
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListProjectsV4Solution {

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

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

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

Python

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

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectsV4Request{}
    response, err := client.ListProjectsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

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```
        fmt.Println(err)
    }
}
```

More

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

Status Codes

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

Error Codes

See **Error Codes**.

4.3.2 Checking Whether the Project Name Exists

Function

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

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/check-name

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Request Parameters

Table 4-58 Request body parameters

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

Response Parameters

Status code: 200

Table 4-59 Response body parameters

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

Status code: 400

Table 4-60 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

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Table 4-61 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

Status code: 200

OK

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class CheckProjectNameV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
```

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```
        CheckProjectNameV4Request request = new CheckProjectNameV4Request();
        CheckProjectNameRequestV4 body = new CheckProjectNameRequestV4();
        body.withProjectName("testDemo");
        request.withBody(body);
        try {
            CheckProjectNameV4Response response = client.checkProjectNameV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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```
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CheckProjectNameV4Request{}
    request.Body = &model.CheckProjectNameRequestV4{
        ProjectName: "testDemo",
    }
    response, err := client.CheckProjectNameV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.3.3 Obtaining Projects That a Tenant Has Not Joined

Function

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

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Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/domain/not-added

Table 4-62 Query Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-63 Response body parameters

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

Table 4-64 projects

Parameter	Type	Description
created_time	Long	Indicates the time when the project is created.
creator	**creator** object	Initiator Info
description	String	Project description
project_id	String	Project ID.

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Parameter	Type	Description
project_name	String	Project name
project_num_id	Integer	Project ID
project_type	String	Project Type
updated_time	Long	Indicates the time when the project is updated.

Table 4-65 creator

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

Status code: 400

Table 4-66 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-67 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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Example Responses

Status code: 200

OK

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListDomainNotAddedProjectsV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListDomainNotAddedProjectsV4Request request = new ListDomainNotAddedProjectsV4Request();
        try {
            ListDomainNotAddedProjectsV4Response response = client.listDomainNotAddedProjectsV4(request);
```

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.3.4 This API is used to obtain project details.

Function

This API is used to obtain project details.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}

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Table 4-68 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-69 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-70 Response body parameters

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

Table 4-71 project

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

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

Table 4-72 creator

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

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

Status code: 400

Table 4-73 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-74 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

OK

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowProjectInfoV4Solution {

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

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

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

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowProjectInfoV4Request()
        request.project_id = "{project_id}"
        response = client.show_project_info_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
```

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```
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.3.5 Updating a Project

Function

This API is used to update a project.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v4/projects/{project_id}

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Table 4-75 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-76 Request body parameters

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

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-77 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

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Table 4-78 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class UpdateProjectV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateProjectV4Request request = new UpdateProjectV4Request();
        request.withProjectId("{project_id}");
        UpdateProjectRequestV4 body = new UpdateProjectRequestV4();
        body.withProjectName("ProjectUnionSDKTest_lj9");
        body.withDescription("2222");
```

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```
        request.withBody(body);
        try {
            UpdateProjectV4Response response = client.updateProjectV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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```
)

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.3.6 Deleting a Project

Function

This API is used to delete a project.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v4/projects/{project_id}

Table 4-79 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-80 Request header parameters

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

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-81 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-82 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Example Requests

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class DeleteProjectV4Solution {

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

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

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

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Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

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

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.3.7 Querying a Project Template

Function

This API is used to query a project template.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/templates

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Table 4-83 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Table 4-84 Query Parameters

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

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Request Parameters

Table 4-85 Request header parameters

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

Response Parameters

Status code: 200

Table 4-86 Response body parameters

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

Table 4-87 templates

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

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

Status code: 400

Table 4-88 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-89 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes

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Parameter	Type	Description
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

OK

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListTemplatesSolution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListTemplatesRequest request = new ListTemplatesRequest();
        request.withProjectId("{project_id}");
```

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```
        try {
            ListTemplatesResponse response = client.listTemplates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
   // In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
   ak := os.Getenv("CLOUD_SDK_AK")
   sk := os.Getenv("CLOUD_SDK_SK")

   auth := basic.NewCredentialsBuilder().
      WithAk(ak).
      WithSk(sk).
      Build()

   client := projectman.NewProjectManClient(
      projectman.ProjectManClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         Build())

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.3.8 Creating or Updating a Work Item Template

Function

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

Calling Method

For details, see **Calling APIs**.

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URI

POST /v2/project/templates

Request Parameters

Table 4-90 Request header parameters

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

Table 4-91 Request body parameters

Parameter	Mandatory	Type	Description
projectUUId	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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

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Table 4-92 IssueFieldConfig

Parameter	Mandatory	Type	Description
field	No	String	**Definition**: Field name. **Constraints**: Only uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-) are allowed. **Options**: N/A **Default value**: N/A
is_required	No	Integer	**Definition**: Whether a field is mandatory. **Constraints**: N/A **Options**: **0**: optional **1**: mandatory **Default value**: N/A
default_value	No	String	**Definition**: Default value of a field. **Constraints**: Regular expression: [\s\S]{1,1000} **Options**: N/A **Default value**: N/A
position	No	Integer	**Definition**: Field priority. **Constraints**: Regular expression: [0-9]{1,10} **Options**: N/A **Default value**: N/A

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Response Parameters

Status code: 200

The API is successfully responded.

None

Example Requests

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

{
  "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
  "projectUUId" : "816e5f0877544de58010157fc30da3e7",
  "trackerId" : "7",
  "issueFieldConfigs" : [ {
    "field" : "status_id",
    "is_required" : 2,
    "default_value" : "New",
    "position" : 1
  }, {
    "field" : "assigned_to_id",
    "is_required" : 2,
    "default_value" : "Myself",
    "position" : 2
  }, {
    "field" : "module_id",
    "is_required" : 1,
    "default_value" : "",
    "position" : 3,
    "is_visible" : true
  }, {
    "field" : "fixed_version_id",
    "is_required" : 0,
    "default_value" : "",
    "position" : 4
  }, {
    "field" : "start_date",
    "is_required" : 0,
    "default_value" : "",
    "position" : 5
  }, {
    "field" : "due_date",
    "is_required" : 0,
    "default_value" : "",
    "position" : 6
  }, {
    "field" : "order",
    "is_required" : 0,
    "default_value" : "1",
    "position" : 7
  }, {
    "field" : "priority_id",
    "is_required" : 2,
    "default_value" : "Medium",
    "position" : 8
  }, {
    "field" : "severity_id",
    "is_required" : 2,
    "default_value" : "Minor",
    "position" : 9
```

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```
 }, {
   "field" : "assigned_cc",
   "is_required" : 0,
   "default_value" : "",
   "position" : 10
 }, {
   "field" : "parent_issue_id",
   "is_required" : 0,
   "default_value" : "",
   "position" : 11
 }, {
   "field" : "domain_id",
   "is_required" : 0,
   "default_value" : "",
   "position" : 12
 }, {
   "field" : "more",
   "is_required" : 0,
   "default_value" : "",
   "position" : 13
 }, {
   "field" : "releaseDev",
   "is_required" : 0,
   "default_value" : "",
   "position" : 14
 }, {
   "field" : "developer",
   "is_required" : 0,
   "default_value" : "",
   "position" : 15
 }, {
   "field" : "expected_work_hours",
   "is_required" : 0,
   "default_value" : "0",
   "position" : 16
 }, {
   "field" : "actual_work_hours",
   "is_required" : 0,
   "default_value" : "",
   "position" : 17
 }, {
   "field" : "done_ratio",
   "is_required" : 0,
   "default_value" : "",
   "position" : 18
 }, {
   "field" : "story_point_id",
   "is_required" : 0,
   "default_value" : "1",
   "position" : 19
 }, {
   "field" : "custom_field18",
   "is_required" : 0,
   "default_value" : "",
   "position" : 20
 } ]
}
```

Example Responses

Status code: 200

The API is successfully responded.

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

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Status Codes

Status Code	Description
200	The API is successfully responded.

Error Codes

See **Error Codes**.

4.3.9 Querying a Work Template (V2)

Function

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

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/project-template/template

Table 4-93 Query Parameters

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

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Request Parameters

Table 4-94 Request header parameters

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

Response Parameters

Status code: 200

Table 4-95 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-96 result

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

Table 4-97 templates

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

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

Table 4-98 creator

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

Table 4-99 source_project

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

Table 4-100 project_list

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

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

Table 4-101 children

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

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

Example Requests

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

Example Responses

Status code: 200

Response indicating successful retrieval of work item template settings.


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


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```
      "id" : 384006,
      "name" : "12345",
      "description" : "",
      "authorId" : 4091,
      "count" : 0
    } ]
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response indicating successful retrieval of work item template settings.

Error Codes

See **Error Codes**.

4.4 Importing and Exporting Data

4.4.1 Querying Per Capita Bugs

Function

This API is used to query average bugs per user.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-102 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-103 Request body parameters

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

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Parameter	Mandatory	Type	Description
metric_type	No	String	**Definition**: Metric type. The options are as follows: **completion_rate** (completion rate) **bug_density** (bug percentage per thousand lines of code) **bugs_per_developer** (number of bugs per developer) **Constraints**: N/A **Options**: **completion_rate**, **bug_density**, and **bugs_per_developer** **Default value**: N/A
sprint_id	No	String	**Definition**: Sprint ID, which can be obtained using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-104 dividend

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

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

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

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

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

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

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

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Table 4-105 divisor

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

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

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

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

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

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

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

Response Parameters

Status code: 200

Table 4-106 Response body parameters

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

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

Status code: 400

Table 4-107 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-108 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

{ }
```

Example Responses

Status code: 200

OK

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

SDK Sample Code

The SDK sample code is as follows.

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Java

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

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


public class ShowBugsPerDeveloperSolution {

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

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

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

Python

```
# coding: utf-8

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

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

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More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.4.2 Querying the On-Time Requirement Completion Rate

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-109 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-110 Request header parameters

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

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Table 4-111 Request body parameters

Parameter	Mandatory	Type	Description
date_range	No	String	**Definition**: Statistical period. **Constraints**: Regular expression: ([0-9]{1,15},[0-9]{1,15}) **Options**: N/A **Default value**: N/A
metric_type	No	String	**Definition**: Metric type. **Constraints**: Regular expression: (bug_density|issues_per_developer|on-time_completion_rate) **Options**: **bug_density**, **issues_per_developer**, and **on-time_completion_rate**. **Default value**: N/A
sprint_id	No	String	**Definition**: Sprint ID, which can be obtained using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: Regular expression: (([A-Za-z0-9,-]{0,32768})) **Value range**: N/A **Default value**: N/A
dividend	No	**dividend** object	**Definition**: Numerator filter criteria. **Constraints**: N/A

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Parameter	Mandatory	Type	Description
divisor	No	**divisor** object	Indicator Denominator Filter Criteria

Table 4-112 dividend

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

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Parameter	Mandatory	Type	Description
custom_field19	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field20	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field21	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field22	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field23	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field24	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field25	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field26	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field27	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field28	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field29	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field30	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field31	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field32	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field33	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field34	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field35	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field36	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field37	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field38	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
custom_field39	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
custom_field40	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
on_time	No	String	**Definition**: Custom field. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-113 divisor

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

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

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

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

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

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

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

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Parameter	Mandatory	Type	Description
on_time	No	String	**Definition**: On time or not. **Constraints**: Regular expression: (ontime|all) **Options**: **ontime**: on time **all**: all **Default value**: N/A

Response Parameters

Status code: 200

Table 4-114 Response body parameters

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

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

Status code: 400

Table 4-115 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-116 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

Status code: 200

OK

```
{
  "dividend_value" : 15,
```

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowCompletionRateSolution {

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

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

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

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

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```
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.4.3 Querying the Bug Density

Function

This API is used to query bug density.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 4-117 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-118 Request header parameters

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

Table 4-119 Request body parameters

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

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Parameter	Mandatory	Type	Description
dividend	No	**dividend** object	**Default value**: N/A **Definition**: Numerator filter criteria. **Constraints**: N/A
divisor	No	**divisor** object	**Definition**: Denominator filter criteria. **Constraints**: N/A

Table 4-120 dividend

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

Table 4-121 custom_fields

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

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Parameter	Mandatory	Type	Description
options	No	String	**Definition**: Custom field values. **Constraints**: Use commas to separated values. **Options**: The value contains 1 to 2,500 characters. **Default value**: N/A

Table 4-122 divisor

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

Table 4-123 custom_fields

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

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

Response Parameters

Status code: 200

Table 4-124 Response body parameters

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

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

Status code: 400

Table 4-125 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-126 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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

Example Responses

Status code: 200

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OK

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class ShowBugDensityV2Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowBugDensityV2Request request = new ShowBugDensityV2Request();
        request.withProjectId("{project_id}");
        MetricRequestV2 body = new MetricRequestV2();
        List<MetricRequestV2DividendCustomFields> listDividendCustomFields = new ArrayList<>();
        listDividendCustomFields.add(
            new MetricRequestV2DividendCustomFields()
                .withName("Custom field name.")
                .withOptions("Custom field value")
        );
        MetricRequestV2Dividend dividendbody = new MetricRequestV2Dividend();
        dividendbody.withCustomFields(listDividendCustomFields);
        body.withDivisor("{\"custom_fields\":[{\"name\":\"Custom field name.\",\"options\":\"Custom field value\"}]}");
        body.withDividend(dividendbody);
        body.withMetricType("bug_density");
        body.withDateRange("1590940800000,1593446400000");
        request.withBody(body);
        try {
```

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```
            ShowBugDensityV2Response response = client.showBugDensityV2(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

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Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5 Project members

4.5.1 Obtaining Bug Statistics

Function

This API is used to obtain bug statistics by module.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-127 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-128 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-129 Response body parameters

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

Table 4-130 BugStatisticResponseV4

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

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Status code: 400

Table 4-131 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-132 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

Definition:

Bug statistics.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

import com.huaweicloud.sdk.core.auth.ICredential;
```

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


public class ListProjectBugStaticsV4Solution {

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

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

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
```

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

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Status Codes

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

Error Codes

See **Error Codes**.

4.5.2 Obtaining Statistics of Story Work Items in a Scrum Project

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-133 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-134 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-135 Response body parameters

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

Table 4-136 DemandStatisticResponseV4

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

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

Status code: 400

Table 4-137 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-138 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

OK

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

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListProjectDemandStaticV4Solution {

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

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

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

Python

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

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectDemandStaticV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectDemandStaticV4(request)
    if err == nil {
```

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.5.3 Obtaining the Overview of a Scrum Project

Function

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

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/summary

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Table 4-139 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-140 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-141 Response body parameters

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

Table 4-142 BugStatisticResponseV4

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

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Parameter	Type	Description
serious_num	Integer	**Definition**: Number of major bugs. **Options**: N/A
tip_num	Integer	**Definition**: Number of info bugs. **Options**: N/A
total	Integer	**Definition**: Total number. **Options**: N/A

Table 4-143 DemandStatisticResponseV4

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

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Parameter	Type	Description
rejected_num	Integer	**Definition**: Number of rejected work items by module. **Options**: N/A
solved_num	Integer	**Definition**: Number of resolved work items by module. **Options**: N/A
test_num	Integer	**Definition**: Number of tests by module. **Options**: N/A
total	Integer	**Definition**: Total number of work items by module. **Options**: N/A

Table 4-144 IssueCompletionRateResponseV4

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

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Table 4-145 IssueStatusResponseV4

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

Status code: 400

Table 4-146 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes

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Parameter	Type	Description
error_msg	String	Description

Status code: 401

Table 4-147 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

OK

```
{
  "bug_statistics" : [ {
    "critical_num" : 0,
    "defect_index" : 1,
    "module" : "Statistical Score",
    "normal_num" : 1,
    "serious_num" : 0,
    "tip_num" : 0,
    "total" : 1
  } ],
  "demand_statistics" : [ {
    "closed_num" : 1,
    "module" : "Billing",
    "new_num" : 1,
    "process_num" : 1,
    "rejected_num" : 1,
    "solved_num" : 1,
    "test_num" : 1,
    "total" : 1
  } ],
  "issue_completion_rates" : [ {
    "issue_status" : {
      "closed_num" : 1,
      "new_num" : 1,
      "process_num" : 1,
      "rejected_num" : 1,
      "solved_num" : 1,
      "test_num" : 1
    },
    "tracker_id" : 0
  } ],
  "project_id" : "526cefde62004de2b62b5e8dd2c2b3af"
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowProjectSummaryV4Solution {

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

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

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

Python

```
# coding: utf-8

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

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

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More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6 Work Items of the Scrum Project

4.6.1 Creating a Customized Field for a Work Item Type

Function

Creating a Customized Field for a Work Item Type

URI

POST /v3/{project_id}/custom-fields

Table 4-148 Path Parameters

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

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Request Parameters

Table 4-149 Request header parameters

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

Table 4-150 Request body parameters

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

Response Parameters

Status code: 200

Table 4-151 Response body parameters

Parameter	Type	Description
options	String	Options
region	String	System fields
id	Integer	Field ID.
identifier	String	Field ID.
project_id	Integer	Project ID
tracker_id	Integer	Work item type ID. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story
custom_field	String	System Field Name
type	String	Field Type

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Parameter	Type	Description
name	String	Parameter
sort	Integer	System fields
memo	String	Description
created	String	Created
modified	String	Time when the gateway response was last modified
is_delete	Boolean	Deleted or Not

Status code: 400

Table 4-152 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-153 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

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

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.2 Uploading an image

Function

Uploading an image

URI

POST /v2/{project_id}/img

Table 4-154 Path Parameters

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

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Request Parameters

Table 4-155 Request header parameters

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

Table 4-156 FormData parameters

Parameter	Mandatory	Type	Description
file	Yes	File	GIF Files

Response Parameters

Status code: 200

Table 4-157 Response body parameters

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

Status code: 400

Table 4-158 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

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Table 4-159 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

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

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.3 Obtaining Work Item Completion Rate

Function

Obtain the completion rate of work items.

URI

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

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Table 4-160 Path Parameters

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

Request Parameters

Table 4-161 Request header parameters

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

Response Parameters

Status code: 200

Table 4-162 Response body parameters

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

Table 4-163 issue_completion_rates

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

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Table 4-164 issue_status

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

Status code: 400

Table 4-165 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-166 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

Example Responses

Status code: 200

OK

```
{
  "issue_completion_rates" : [ {
    "issue_status" : {
      "closed_num" : 0,
      "new_num" : 0,
```

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```
    "process_num" : 0,
    "rejected_num" : 0,
    "solved_num" : 0,
    "test_num" : 0
   },
   "tracker_id" : 3
  } ],
  "total" : 2
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.4 Obtaining Comments on a Specified Work Item

Function

This API is used to obtain comments on a work item.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-167 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Table 4-168 Query Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-169 Response body parameters

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

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Table 4-170 IssueCommentV4

Parameter	Type	Description
comment	String	**Definition**: Comment content. **Options**: N/A
created_time	String	**Definition**: Comment time. The format is YYYY-MM-DD. **Options**: N/A
id	Integer	**Definition**: Comment ID. **Options**: N/A
timestamp	String	**Definition**: Comment timestamp. **Options**: N/A
user	**CommentUserV4** object	**Definition**: User information.

Table 4-171 CommentUserV4

Parameter	Type	Description
nick_name	String	**Definition**: Alias of the user who posted the comment. **Options**: N/A
user_name	String	**Definition**: Name of the user who posted the comment. **Options**: N/A

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

Status code: 400

Table 4-172 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-173 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issues/1232495/comments
```

Example Responses

Status code: 200

OK

```
{
  "total" : 3,
  "comments" : [ {
    "comment" : "<p>This is a comment.</p>",
    "id" : 2777430,
    "created_time" : "2019-10-18",
    "timestamp" : "1684220287000",
    "user" : {
      "user_num_id" : 4091,
      "user_name" : "demo_user_name",
      "nick_name" : "name"
    }
  } ]
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListIssueCommentsV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueCommentsV4Request request = new ListIssueCommentsV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListIssueCommentsV4Response response = client.listIssueCommentsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

if __name__ == "__main__":
```

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListIssueCommentsV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_issue_comments_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListIssueCommentsV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListIssueCommentsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.5 Querying Labor Hours of a Project by User

Function

This API is used to query labor hours of a project by user.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-174 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-175 Request header parameters

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

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Table 4-176 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	No	String	**Definition**: Work start date: YYYY-MM-DD. **Constraints**: Regular expression: [1-9]\d{3}-(0?[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]) **Options**: N/A **Default value**: N/A
end_time	No	String	**Definition**: Work end date: YYYY-MM-DD. **Constraints**: Regular expression: [1-9]\d{3}-(0?[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]) **Options**: N/A **Default value**: N/A
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: A maximum of 500 records can be displayed on each page. **Options**: Minimum value: **1**. Maximum value: **1,000**. **Default value**: **10**.

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Offset. **Constraints**: Offset must be an integral multiple of **limit**. If **limit** equals **10**, then valid **offset** values are **0**, **10**, **20**, and so on. **Options**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
user_ids	No	Array of strings	**Definition**: List of queried user IDs. You can obtain the value using the **Obtaining the Current User Information** API. The value of **user_id** in the response message body is the user ID. **Constraints**: Regular expression: [0-9a-z]{32}
work_hours_dates	No	String	**Definition**: Work date in the format of YYYY-MM-DD. Separate multiple values by commas (,). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
work_hours_types	No	String	**Definition**: Work type. Separate multiple values by commas (,). **Constraints**: The enumerated values are separated by commas (,). **Options**: **21**: R&D and design **22**: backend development **23**: frontend development (web) **24**: frontend development (applet) **25**: frontend development (app) **26**: test and verification **27**: bug fixing **28**: UI design **29**: conference **30**: public affairs **31**: training **32**: research **33**: other **34**: replacement leave **Default value**: N/A

Response Parameters

Status code: 200

Table 4-177 Response body parameters

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

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

Table 4-178 work_hours

Parameter	Type	Description
closed_time	String	**Definition**: End time of a work item. **Options**: N/A
created_time	String	**Definition**: Creation time of a work item. **Options**: N/A
issue_id	Integer	**Definition**: Work item ID. **Options**: N/A
issue_type	String	**Definition**: Work item type. **Options**: N/A
nick_name	String	**Definition**: User alias. **Options**: N/A
project_name	String	**Definition**: Project name. **Options**: N/A
subject	String	**Definition**: Work item title. **Options**: N/A

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Parameter	Type	Description
summary	String	**Definition**: Workload details. **Options**: N/A
user_id	String	**Definition**: User ID. **Options**: N/A
user_name	String	**Definition**: Username. **Options**: N/A
work_date	String	**Definition**: Work date. **Options**: N/A
work_hours_created_time	String	**Definition**: Workload creation time. **Options**: N/A
work_hours_num	String	**Definition**: Workloads. **Options**: N/A
work_hours_type_name	String	**Definition**: Work type. **Options**: N/A
work_hours_updated_time	String	**Definition**: Workload update time. **Options**: N/A

Status code: 400

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Table 4-179 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-180 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Post https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours

{
  "end_time" : "2020-08-14",
  "limit" : 1,
  "offset" : 0
}
```

Example Responses

Status code: 200

ok

```
{
  "work_hours" : [ {
    "project_name" : "demo",
    "nick_name" : "demo",
    "user_id" : "09d75cdd9a00d44d2f17c01875483f26",
    "user_name" : "userName",
    "work_date" : "2020-02-19",
    "work_hours_num" : "2.0",
    "summary" : "summaryXXXXX",
    "work_hours_type_name" : "Backend development",
    "issue_id" : 123456,
    "issue_type" : "Story",
    "subject" : "title",
    "created_time" : "2019-12-17",
    "closed_time" : "2019-12-20",
    "work_hours_created_time" : "2019-12-17 09:00:00",
    "work_hours_updated_time" : "2019-12-20 15:00:00"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

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

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


public class ShowProjectWorkHoursSolution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowProjectWorkHoursRequest request = new ShowProjectWorkHoursRequest();
        request.withProjectId("{project_id}");
        ShowProjectWorkHoursRequestBody body = new ShowProjectWorkHoursRequestBody();
        body.withLimit(1);
        body.withOffset(0);
        body.withEndTime("2020-08-14");
        request.withBody(body);
        try {
            ShowProjectWorkHoursResponse response = client.showProjectWorkHours(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowProjectWorkHoursRequest()
        request.project_id = "{project_id}"
        request.body = ShowProjectWorkHoursRequestBody(
            limit=1,
            offset=0,
            end_time="2020-08-14"
        )
        response = client.show_project_work_hours(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowProjectWorkHoursRequest{}
    request.ProjectId = "{project_id}"
    endTimeShowProjectWorkHoursRequestBody:= "2020-08-14"
    request.Body = &model.ShowProjectWorkHoursRequestBody{
        Limit: int32(1),
        Offset: int32(0),
        EndTime: &endTimeShowProjectWorkHoursRequestBody,
```

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

More

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

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.6 Querying Labor Hours by User (for Multiple Projects)

Function

This API is used to query labor hours by user (for multiple projects).

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/work-hours

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Request Parameters

Table 4-181 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	No	String	**Definition**: Work start time. The format is YYYY-MM-DD. **Constraints**: N/A **Options**: N/A **Default value**: N/A
end_time	No	String	**Definition**: Work end time. The format is YYYY-MM-DD. **Constraints**: N/A **Options**: N/A **Default value**: N/A
limit	No	Integer	**Definition**: Number of records displayed on each page (max: 500). **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **500**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Offset, which is an integer multiple of **limit**. **Constraints**: N/A **Options**: Minimum value: **0**. **Default value**: N/A
project_ids	No	Array of strings	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
user_ids	No	Array of strings	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **user_id** in the response message body is the user ID. **Constraints**: Regular expression: [0-9a-z]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
work_hours_dates	No	String	**Definition**: Work date. The date format is YYYY-MM-DD. Separate multiple values by commas (,). Example: **2020-05-02,2020-03-02,2021-09-01** **Constraints**: N/A **Options**: N/A **Default value**: N/A
work_hours_types	No	String	**Definition**: Work type. Separate multiple values by commas (,). Example: **21, 22, 23** **Constraints**: N/A **Options**: **21**: R&D and design **22**: backend development **23**: frontend development (web) **24**: frontend development (applet) **25**: frontend development (app) **26**: test and verification **27**: bug fixing **28**: UI design **29**: conference **30**: public affairs **31**: training **32**: research **33**: other **34**: replacement leave **Default value**: N/A

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Response Parameters

Status code: 200

Table 4-182 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number. **Options**: N/A
work_hours	Array of **work_hours** objects	**Definition**: Workload list.

Table 4-183 work_hours

Parameter	Type	Description
closed_time	String	**Definition**: End time of a work item. **Options**: N/A
created_time	String	**Definition**: Creation time of a work item. **Options**: N/A
issue_id	Integer	**Definition**: Work item ID. **Options**: N/A
issue_type	String	**Definition**: Work item type. **Options**: N/A
nick_name	String	**Definition**: User alias. **Options**: N/A

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Parameter	Type	Description
project_name	String	**Definition**: Project name. **Options**: N/A
subject	String	**Definition**: Work item title. **Options**: N/A
summary	String	**Definition**: Workload details. **Options**: N/A
user_id	String	**Definition**: User ID. **Options**: N/A
user_name	String	**Definition**: Username. **Options**: N/A
work_date	String	**Definition**: Work date. **Options**: N/A
work_hours_created_time	String	**Definition**: Workload creation time. **Options**: N/A
work_hours_num	String	**Definition**: Workloads. **Options**: N/A
work_hours_type_name	String	**Definition**: Work type. **Options**: N/A

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Parameter	Type	Description
work_hours_updated_time	String	**Definition**: Workload update time. **Options**: N/A

Status code: 400

Table 4-184 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-185 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Post https://{endpoint}/v4/projects/work-hours

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

Example Responses

Status code: 200

ok

```
{
  "work_hours" : [ {
    "project_name" : "Project name",
    "nick_name" : "User alias.",
    "user_id" : "09d75cdd9a00d44d2f17c01875483f26",
    "user_name" : "Username",
    "work_date" : "2020-02-19",
    "work_hours_num" : "2.0",
```

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```
    "summary" : "XXXXX was done.",
    "work_hours_type_name" : "Backend development",
    "issue_id" : 123456,
    "issue_type" : "Story",
    "subject" : "Work Item Title",
    "created_time" : "2019-12-17",
    "closed_time" : "2019-12-20",
    "work_hours_created_time" : "2019-12-17 09:00:00",
    "work_hours_updated_time" : "2019-12-20 15:00:00"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class ListProjectWorkHoursSolution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectWorkHoursRequest request = new ListProjectWorkHoursRequest();
        ListProjectWorkHoursRequestBody body = new ListProjectWorkHoursRequestBody();
        List<String> listbodyProjectIds = new ArrayList<>();
        listbodyProjectIds.add("e2da96a5d2c845e284f0ad47f8ca8cb2");
        listbodyProjectIds.add("a2da96a5d2c845e284f0ad47f8ca8cef");
        body.withLimit(1);
        body.withOffset(0);
        body.withEndTime("2020-08-14");
        body.withProjectIds(listbodyProjectIds);
        request.withBody(body);
        try {
            ListProjectWorkHoursResponse response = client.listProjectWorkHours(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
```

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListProjectWorkHoursRequest()
        listProjectIdsbody = [
            "e2da96a5d2c845e284f0ad47f8ca8cb2",
            "a2da96a5d2c845e284f0ad47f8ca8cef"
        ]
        request.body = ListProjectWorkHoursRequestBody(
            limit=1,
            offset=0,
            end_time="2020-08-14",
            project_ids=listProjectIdsbody
        )
        response = client.list_project_work_hours(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectWorkHoursRequest{}
    var listProjectIdsbody = []string{
        "e2da96a5d2c845e284f0ad47f8ca8cb2",
        "a2da96a5d2c845e284f0ad47f8ca8cef",
    }
    endTimeListProjectWorkHoursRequestBody:= "2020-08-14"
    request.Body = &model.ListProjectWorkHoursRequestBody{
        Limit: int32(1),
        Offset: int32(0),
        EndTime: &endTimeListProjectWorkHoursRequestBody,
        ProjectIds: &listProjectIdsbody,
    }
    response, err := client.ListProjectWorkHours(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.6.7 Obtaining Historical Records of Work Items

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 4-186 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Table 4-187 Query Parameters

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

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **1,000**. **Default value**: 10

Request Parameters

Table 4-188 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-189 Response body parameters

Parameter	Type	Description
records	Array of **IssueRecordV4** objects	**Definition**: Work item record details.
total	Integer	**Definition**: Total number of operation records. **Options**: N/A

Table 4-190 IssueRecordV4

Parameter	Type	Description
created_time	Long	**Definition**: Time when an operation record is created. **Options**: N/A
details	Array of **details** objects	**Definition**: Operation record.
id	Integer	**Definition**: Operation record ID. **Options**: N/A
user	**user** object	**Definition**: User who performs an operation on a work item.

Table 4-191 details

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

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Parameter	Type	Description
name	String	**Definition**: Operation field name. **Options**: N/A
new_value	String	**Definition**: Current value. **Options**: N/A
old_value	String	**Definition**: Last record. **Options**: N/A
operation	String	**Definition**: Operation. **Options**: **JOURNAL_1**: modify **JOURNAL_2**: create **JOURNAL_3**: delete **JOURNAL_4**: clone **JOURNAL_5**: import **JOURNAL_6**: transfer code commits **JOURNAL_7**: update the import **JOURNAL_8**: batch edit **ARCHIVING**: archive **CANCEL_ARCHIVING**: cancel archiving **ASSOCIATE_TEST_CASE**: associate a case **CANCEL_ASSOCIATED_TEST_CASE**: cancel associating a case **ASSOCIATE_CODE_BRANCH**: associate a branch **ASSOCIATE_ISSUE**: associate a work item **CANCEL_ASSOCIATED_ISSUE**: cancel associating a work item **CLOSE_SPRINT**: end a sprint

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

Table 4-192 user

Parameter	Type	Description
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition**: 32–digit UUID of a user. **Options**: N/A
user_name	String	**Definition**: Login name. **Options**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Options**: N/A

Status code: 400

Table 4-193 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

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Table 4-194 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue/3458/records
```

Example Responses

Status code: 200

OK

```
{
  "records" : [ {
    "id" : 1234,
    "created_time" : 1617764919000,
    "user" : {
      "user_num_id" : 4091,
      "user_name" : "demo_user_name",
      "nick_name" : "aaa",
      "user_id" : "a360371833bf4c558f796fd707b44daf"
    },
    "details" : [ {
      "property" : 1,
      "old_value" : 1,
      "new_value" : 2,
      "operation" : "Batch edit",
      "id" : 3597,
      "name" : "Title"
    } ]
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListIssueRecordsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

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```
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueRecordsV4Request request = new ListIssueRecordsV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListIssueRecordsV4Response response = client.listIssueRecordsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListIssueRecordsV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_issue_records_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListIssueRecordsV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListIssueRecordsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.6.8 Create work items.

Function

Create work items.

URI

POST /v4/projects/{project_id}/issue

Table 4-195 Path Parameters

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

Request Parameters

Table 4-196 Request header parameters

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

Table 4-197 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.

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Parameter	Mandatory	Type	Description
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Description
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	ID domain, 14'Performance', 15'Function', 16'Reliability' 17'Cyber security' 18'Maintainability' 19'Other DFX' 20'Availability'
done_ratio	No	Integer	Work Item Progress Value
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	Yes	String	Title
parent_issue_id	No	Integer	ID of the parent work item. This parameter is mandatory when a child work item is created. The value of tracker_id of the parent work item cannot be 2 or 3.
priority_id	Yes	Integer	Priority, 1: low, In 2, 3 high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,
tracker_id	Yes	Integer	Work item type. The options are as follows: 2: task; 3: defect / Bug,5Epic,6Feature,7Story. The value 5 can only be the parent work item type of 6. 6 can only be the parent work item type of 7. The value 7 can only be the parent of 2 or 3.

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Parameter	Mandatory	Type	Description
new_custom_fields	No	Array of **NewCustomField** objects	Custom Item

Table 4-198 NewCustomField

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

Response Parameters

Status code: 200

Table 4-199 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of **IssueUser** objects	Copy To
assigned_user	**IssueUser** object	Cc recipient.
begin_time	String	Start time, in the format of year-month-day.
creator	**IssueUser** object	Creator.
custom_fields	Array of **CustomField** objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of **NewCustomField** objects	Attribute Value
developer	**IssueUser** object	Developer.

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Parameter	Type	Description
domain	**domain** object	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratio	Integer	Work Item Progress Value
end_time	String	End time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	**IssueProjectResponseV4** object	Project Information
iteration	**iteration** object	Sprint
module	**module** object	Module
parent_issue	**parent_issue** object	Parent Work Item
priority	**priority** object	Work Item Priority
severity	**severity** object	Work Item Importance
status	**status** object	Work Item Statuses
tracker	**tracker** object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

Table 4-200 IssueUser

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

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Table 4-201 CustomField

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

Table 4-202 NewCustomField

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

Table 4-203 domain

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

Table 4-204 IssueProjectResponseV4

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

Table 4-205 iteration

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

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Table 4-206 module

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

Table 4-207 parent_issue

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

Table 4-208 priority

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

Table 4-209 severity

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

Table 4-210 status

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

Table 4-211 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

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Status code: 400

Table 4-212 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-213 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

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

Example Responses

Status code: 200

OK

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

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```
"creator" : {
  "id" : 4091,
  "name" : "user_name_demo",
  "nick_name" : "nick_name_demo"
},
"custom_fields" : [ {
  "name" : "customField16",
  "value" : "Check box",
  "new_name" : "custom_field16"
} ],
"new_custom_fields" : [ {
  "custom_field" : "custom_field16",
  "field_name" : "field_name",
  "value" : "select1,select2"
} ],
"developer" : {
  "id" : 4091,
  "name" : "user_name_demo",
  "nick_name" : "nick_name_demo"
},
"domain" : {
  "id" : 14,
  "name" : "Performance"
},
"done_ratio" : 0,
"end_time" : "2020-09-19",
"expected_work_hours" : 9,
"id" : 4567,
"project" : {
  "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
  "project_name" : "testDemo",
  "project_num_id" : 78953
},
"iteration" : {
  "id" : 456,
  "name" : "iteration_1"
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"parent_issue" : {
  "id" : 123,
  "name" : "paren_issue_demo"
},
"priority" : {
  "id" : 1,
  "name" : "Low"
},
"severity" : {
  "id" : 12,
  "name" : "Middle"
},
"status" : {
  "id" : 1,
  "name" : "New"
},
"tracker" : {
  "id" : 7,
  "name" : "story"
}
}
```


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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.9 Querying Work Items of a Project

Function

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

URI

GET /v4/projects/{project_id}/issues

Table 4-214 Path Parameters

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

Table 4-215 Query Parameters

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

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

Request Parameters

Table 4-216 Request header parameters

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

Response Parameters

Status code: 200

Table 4-217 Response body parameters

Parameter	Type	Description
issues	Array of **IssueItemSfV4** objects	Item

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Parameter	Type	Description
total	Integer	Total

Table 4-218 IssueItemSfV4

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

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Parameter	Type	Description
story_point	**story_point** object	Story point information. 1(0) 2(1/2) 3(1) 4(2) 5(3) 6(5) 7(8) 8(13) 9(21) 10(40) 11(80) 12(100) 13(∞) 14(?)
domain	**domain** object	Domain Information. 14(Performance) 15(Function) 16(Reliability) 17(Network security) 18(Maintainability) 19(Other DFX) 20(Availability)
iteration	**iteration** object	Sprint
module	**module** object	Module
priority	**priority** object	Work Item Priority
severity	**severity** object	Work Item Importance
status	**status** object	Work Item Statuses
tracker	**tracker** object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
subject	String	Indicates the title of the work item.
updated_time	Long	Work Item Update Time

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Table 4-219 CustomFeildRecord

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

Table 4-220 IssueUser

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

Table 4-221 story_point

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

Table 4-222 domain

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

Table 4-223 iteration

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

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Table 4-224 module

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

Table 4-225 priority

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

Table 4-226 severity

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

Table 4-227 status

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

Table 4-228 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

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Table 4-229 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-230 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

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

Example Responses

Status code: 200

OK

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

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


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.6.10 Advanced Query Work Item

Function

Queries work items based on filter criteria.

URI

POST /v4/projects/{project_id}/issues

Table 4-231 Path Parameters

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

Request Parameters

Table 4-232 Request header parameters

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

Table 4-233 Request body parameters

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

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

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

Table 4-234 custom_fields

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

Response Parameters

Status code: 200

Table 4-235 Response body parameters

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

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Table 4-236 ListIssueItemResponse

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

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

Table 4-237 IssueUser

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

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Table 4-238 CustomField

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

Table 4-239 NewCustomField

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

Table 4-240 domain

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

Table 4-241 IssueProjectResponseV4

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

Table 4-242 iteration

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

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Table 4-243 module

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

Table 4-244 parent_issue

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

Table 4-245 priority

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

Table 4-246 order

Parameter	Type	Description
id	Integer	Id
name	String	Name

Table 4-247 severity

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

Table 4-248 status

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

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Table 4-249 env

Parameter	Type	Description
id	Integer	Id
name	String	Name

Table 4-250 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-251 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-252 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

{
  "status_ids" : [ 1 ]
}
```

Example Responses

Status code: 200

OK

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```
{
  "issues": [
    {
      "actual_work_hours": 0,
      "assigned_cc_user": [
        {
          "id": 4091,
          "name": "demo_user_name",
          "nick_name": "Tom"
        }
      ],
      "assigned_user": {
        "id": 4091,
        "name": "demo_user_name",
        "nick_name": "Tom
      },
      "begin_time": "2020-09-12",
      "created_time": "2020-09-13 14:40:11",
      "creator": {
        "id": 4091,
        "name": "demo_user_name",
        "nick_name": "Tom"
      },
      "custom_fields": [
        {
          "name": "customField16",
          "value": "Check box",
          "new_name": "custom_field16"
        }
      ],
      "new_custom_fields": [
        {
          "custom_field": "custom_field16",
          "field_name": "field_name",
          "value": "Check box 1, Check box 2"
        }
      ],
      "developer": {
        "id": 4091,
        "name": "demo_user_name",
        "nick_name": "Tom"
      },
      "domain": {
        "id": 14,
        "name": "Performance"
      },
      "done_ratio": 0,
      "end_time": "2020-09-19",
      "expected_work_hours": 9,
      "id": 4567,
      "project": {
        "project_id": "526cefde62004de2b62b5e8dd2c2b3af",
        "project_name": "testDemo",
        "project_num_id": 78953
      },
      "iteration": {
        "id": 456,
        "name": "Iteration 1"
      },
      "module": {
        "id": 456,
        "name": "Project"
      },
      "name": "I18N",
      "parent_issue": {
        "id": 123,
        "name": "Provide the function of querying project members"
      },
      "priority": {
```


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```
      "id": 1,
      "name": "Low"
    },
    "severity": {
      "id": 12,
      "name": "Middle"
    },
    "status": {
      "id": 1,
      "name": "New"
    },
    "tracker": {
      "id": 7,
      "name": "story"
    },
    "updated_time": "2020-09-14 14:40:11",
    "closed_time": "2020-09-15 14:40:11",
    "deleted": false
  }
 ],
 "total": 1
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.11 Deleting Work Items in Batches

Function

This API is used to delete work items in batches.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v4/projects/{project_id}/issues

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Table 4-253 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-254 Request header parameters

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

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Table 4-255 Request body parameters

Parameter	Mandatory	Type	Description
issue_ids	Yes	Array of integers	**Definition**: Work item array, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: N/A **Value range**: The maximum array length is 100. **Default value**: N/A

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-256 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-257 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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```
{
  "issue_ids" : [ 1660084, 1660085 ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class BatchDeleteIssuesV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteIssuesV4Request request = new BatchDeleteIssuesV4Request();
        request.withProjectId("{project_id}");
        BatchDeleIteIssuesRequestV4 body = new BatchDeleIteIssuesRequestV4();
        List<Integer> listbodyIssueIds = new ArrayList<>();
        listbodyIssueIds.add(1660084);
        listbodyIssueIds.add(1660085);
        body.withIssueIds(listbodyIssueIds);
        request.withBody(body);
        try {
            BatchDeleteIssuesV4Response response = client.batchDeleteIssuesV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
```

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchDeleteIssuesV4Request()
        request.project_id = "{project_id}"
        listIssueIdsbody = [
            1660084,
            1660085
        ]
        request.body = BatchDeleIteIssuesRequestV4(
            issue_ids=listIssueIdsbody
        )
        response = client.batch_delete_issues_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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```
    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchDeleteIssuesV4Request{}
    request.ProjectId = "{project_id}"
    var listIssueIdsbody = []int32{
        int32(1660084),
        int32(1660085),
    }
    request.Body = &model.BatchDeleIteIssuesRequestV4{
        IssueIds: listIssueIdsbody,
    }
    response, err := client.BatchDeleteIssuesV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.12 Querying Work Item Details

Function

This API is used to query work item details.

Calling Method

For details, see **Calling APIs**.

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URI

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

Table 4-258 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-259 Response body parameters

Parameter	Type	Description
accessories	Array of **IssueAccessory** objects	**Definition**: Attachment list.
actual_work_hours	Double	**Definition**: Actual workloads. **Options**: Minimum value: **0**.
assigned_cc_user	Array of **IssueUser** objects	**Definition**: Cc recipient.
assigned_user	**IssueUser** object	**Definition**: Handler.
begin_time	String	**Definition**: Estimated start time. The format is YYYY-MM-DD. **Options**: N/A
closed_time	String	**Definition**: Closing time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
created_time	String	**Definition**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
creator	**IssueUser** object	**Definition**: Creator.
custom_fields	Array of **CustomField** objects	**Definition**: Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
description	String	**Definition**: Work item description. **Options**: N/A

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Parameter	Type	Description
developer	**IssueUser** object	**Definition**: Developer.
domain	**domain** object	**Parameter description**: Domain.
done_ratio	Integer	**Parameter description**: Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Options**: Minimum value: **0**. Maximum value: **100**.
end_time	String	**Definition**: Estimated end time. The format is YYYY-MM-DD. **Options**: N/A
expected_work_hours	Double	**Parameter description**: Estimated workloads. **Options**: Minimum value: **0**.
id	Integer	**Parameter description**: Work item ID. **Options**: 0 to 9,999,999,999
iteration	**iteration** object	**Parameter description**: Sprint.
module	**module** object	**Parameter description**: Module.
name	String	**Parameter description**: Title. **Options**: N/A
order	**IssueOrder** object	**Definition**: Sorting order.
parent_issue	**parent_issue** object	**Definition**: Parent work item.

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Parameter	Type	Description
priority	**priority** object	**Definition**: Work item priority.
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.
story_point	**story_point** object	**Definition**: Story point.
tracker	**tracker** object	**Definition**: Work item type.
updated_time	String	**Parameter description**: Update time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A
new_custom_fields	Array of **IssueDetailCustomField** objects	**Parameter description**: Custom property value.

Table 4-260 IssueAccessory

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

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Parameter	Type	Description
created_date	String	**Definition**: Time when the attachment was created. The value is in the format of YYYY-MM-DD HH:MM:SS. **Options**: N/A
creator_id	String	**Definition**: Creator UUID. **Options**: N/A
creator_num_id	Integer	**Definition**: Digital ID of the creator. **Options**: N/A
digest	String	**Definition**: Abstract. **Options**: N/A
disk_directory	String	**Definition**: Attachment path. **Options**: N/A
disk_file_name	String	**Definition**: Attachment name. **Options**: N/A
file_name	String	**Definition**: Name of the file to be uploaded. **Options**: N/A
issue_id	Integer	**Definition**: Work item ID. **Options**: N/A

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Table 4-261 IssueUser

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

Table 4-262 CustomField

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

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Parameter	Type	Description
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

Table 4-263 domain

Parameter	Type	Description
id	Integer	**Parameter description**: Domain ID. The options are as follows: **14**: performance **15**: function **16**: reliability **17**: cyber security **18**: maintainability **19**: other design for X (DFX) **20**: availability **Options**: **14**, **15**, **16**, **17**, **18**, **19**, and **20**
name	String	**Parameter description**: Domain name. **Options**: N/A

Table 4-264 iteration

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

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

Table 4-265 module

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

Table 4-266 IssueOrder

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

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Table 4-267 parent_issue

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

Table 4-268 priority

Parameter	Type	Description
id	Integer	**Parameter description**: Priority ID. The options are as follows: **1**: low **2**: medium **3**: high **Options**: **1**, **2**, and **3**
name	String	**Parameter description**: Priority. **Options**: N/A

Table 4-269 IssueProjectResponseV4

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

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

Table 4-270 severity

Parameter	Type	Description
id	Integer	**Parameter description**: Severity ID. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Options**: **10**, **11**, **12**, and **13**
name	String	**Definition**: Severity. **Options**: N/A

Table 4-271 status

Parameter	Type	Description
id	Integer	**Parameter description**: Status ID. The options are as follows: **1**: initial **2**: in progress **3**: solved **4**: testing **5**: closed **6**: rejected **Options**: **1**, **2**, **3**, **4**, **5**, and **6**

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

Table 4-272 story_point

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. A story point is an agile method for estimating workloads. It can be regarded as the development cost, which takes into account the required efforts for story delivery, development complexity, and risks. Story point values corresponding to story point IDs: **1**: 0 **2**: 1/2 **3**: 1 **4**: 2 **5**: 3 **6**: 5 **7**: 8 **8**: 13 **9**: 21 **10**: 40 **11**: 80 **12**: 100 **Options**: **1**, **2**, **3**, **4**, **5**, **6**, **7**, **8**, **9**, **10**, **11**, and **12**
name	String	**Definition**: Story point name. **Options**: N/A

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Table 4-273 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**
name	String	**Parameter description**: Type name. **Options**: N/A

Table 4-274 IssueDetailCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API. **Constraints**: This field can be left blank. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A
description	String	**Definition**: Custom field description. **Options**: N/A
field_type	String	**Definition**: Custom field type. Options: **textArea** (multi-line text), **text** (single-line text), **select** (drop-down list), **number** (digit), **time_date** (date), **checkbox** (check box), and **radio** (radio button). **Options**: **textArea**, **text**, **select**, **number**, **time_date**, **checkbox**, and **radio**

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Table 4-275 SecurityLevelResult

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

Status code: 400

Table 4-276 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-277 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Example Requests

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

Example Responses

Status code: 200

OK


```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "begin_time" : "2020-09-12",
  "created_time" : "2020-09-13 14:40:11",
  "creator" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "value",
    "new_name" : "custom_field16"
  } ],
  "new_custom_fields" : [ {
    "custom_field" : "custom_field16",
    "field_name" : "bear1",
    "value" : "bear11,bear12",
    "field_type" : "textArea",
    "description" : "description"
  } ],
  "developer" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "domain" : {
    "id" : 14,
    "name" : "Performance"
  },
  "done_ratio" : 0,
  "end_time" : "2020-09-19",
  "expected_work_hours" : 9,
  "id" : 4567,
  "project" : {
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
    "project_name" : "testDemo",
    "project_num_id" : 78953
  },
  "iteration" : {
    "id" : 456,
    "name" : "iteeration1"
  },
  "story_point" : {
    "id" : 3,
    "name" : "1"
  },
  "module" : {
    "id" : 456,
```


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```
    "name" : "Project"
  },
  "name" : "issueDemo",
  "parent_issue" : {
    "id" : 123,
    "name" : "parentDemo"
  },
  "priority" : {
    "id" : 1,
    "name" : "Low"
  },
  "severity" : {
    "id" : 12,
    "name" : "Minor"
  },
  "status" : {
    "id" : 1,
    "name" : "Initial"
  },
  "tracker" : {
    "id" : 7,
    "name" : "story"
  },
  "updated_time" : "2020-09-14 14:40:11",
  "closed_time" : "2020-09-15 14:40:11",
  "description" : "demo",
  "order" : {
    "id" : 1,
    "name" : "1"
  },
  "accessories" : [ {
    "attachment_id" : 123444,
    "issue_id" : 123444,
    "creator_num_id" : 123444,
    "created_date" : "2021-12-15 15:57:16",
    "file_name" : "res.jpg",
    "container_type" : "issue",
    "disk_file_name" : "f0ef7216-fd05-40d4-8dea-6e6057739bb7.jpg",
    "digest" : 123444,
    "disk_directory" : 123444,
    "creator_id" : "a360371833bf4c558f796fd707b44daf"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowIssueV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
```

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```
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIssueV4Request request = new ShowIssueV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ShowIssueV4Response response = client.showIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowIssueV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.show_issue_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

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

Go

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowIssueV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ShowIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.6.13 Updating a Work Item

Function

Updating a Work Item

URI

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

Table 4-278 Path Parameters

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

Request Parameters

Table 4-279 Request header parameters

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

Table 4-280 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.

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Parameter	Mandatory	Type	Description
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Details
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	Identifies a domain.
done_ratio	No	Integer	Work Item Progress Value
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	No	String	Title
parent_issue_id	No	Integer	ID of the parent work item.
priority_id	No	Integer	Priority, 1: low, In 2, 3 high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 resolved,
tracker_id	No	Integer	Work item type. The options are as follows: 2: task; 3: defect / Bug,5Epic,6Feature,7Story.
new_custom_fields	No	Array of **NewCustomField** objects	Custom Item

Table 4-281 NewCustomField

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

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

Response Parameters

Status code: 200

Table 4-282 Response body parameters

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

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Parameter	Type	Description
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	**IssueProjectResponseV4** object	Project Information
iteration	**iteration** object	Iteration
module	**module** object	Module
name	String	Title
parent_issue	**parent_issue** object	Parent Work Item
priority	**priority** object	Work Item Priority
order	**order** object	Order Information
severity	**severity** object	Work Item Importance
status	**status** object	Work Item Statuses
release_dev	String	Release
find_release_dev	String	Release
env	**env** object	Environment
tracker	**tracker** object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second

Table 4-283 IssueUser

Parameter	Type	Description
user_id	String	User UUID
user_num_id	Integer	Digital ID of a user

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Parameter	Type	Description
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-284 CustomField

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

Table 4-285 NewCustomField

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

Table 4-286 domain

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

Table 4-287 IssueProjectResponseV4

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

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Table 4-288 iteration

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

Table 4-289 module

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

Table 4-290 parent_issue

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

Table 4-291 priority

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

Table 4-292 order

Parameter	Type	Description
id	Integer	Order Id
name	String	Order Name

Table 4-293 severity

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

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Table 4-294 status

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

Table 4-295 env

Parameter	Type	Description
id	Integer	Environment Id
name	String	Environment Name

Table 4-296 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-297 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-298 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

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```
{
  "status_id" : 2
}
```

Example Responses

Status code: 200

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "begin_time" : "2020-09-12",
  "created_time" : "2020-09-13 14:40:11",
  "creator" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "select1",
    "new_name" : "custom_field16"
  } ],
  "new_custom_fields" : [ {
    "custom_field" : "custom_field16",
    "field_name" : "field_name",
    "value" : "select1,select2"
  } ],
  "developer" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "domain" : {
    "id" : 14,
    "name" : "Performance"
  },
  "done_ratio" : 0,
  "end_time" : "2020-09-19",
  "expected_work_hours" : 9,
  "id" : 4567,
  "project" : {
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
    "project_name" : "testDemo",
    "project_num_id" : 78953
  },
  "iteration" : {
    "id" : 456,
    "name" : "Iteration 1"
  },
  "module" : {
    "id" : 456,
    "name" : "Project"
  },
  "name" : "issue name",
  "parent_issue" : {
    "id" : 123,
    "name" : "parent issue name"
```

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```
},
"priority" : {
  "id" : 1,
  "name" : "Low"
},
"severity" : {
  "id" : 12,
  "name" : "Middle"
},
"status" : {
  "id" : 1,
  "name" : "New"
},
"tracker" : {
  "id" : 7,
  "name" : "story"
},
"updated_time" : "2020-09-14 14:40:11",
"closed_time" : "2020-09-15 14:40:11"
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.14 Deleting a Work Item

Function

This API is used to delete a work item.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-299 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 204

No Content

Status code: 400

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Table 4-300 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-301 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class DeleteIssueV4Solution {

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

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

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```
        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteIssueV4Request request = new DeleteIssueV4Request();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            DeleteIssueV4Response response = client.deleteIssueV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteIssueV4Request()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.delete_issue_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteIssueV4Request{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.DeleteIssueV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.6.15 Obtaining Child Work Items

Function

This API is used to obtain child work items.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 4-302 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Request Parameters

Table 4-303 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-304 Response body parameters

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

Table 4-305 IssueResponseV4

Parameter	Type	Description
actual_work_hours	Double	**Parameter description**: Actual workloads. **Value range**: Minimum value: **0**.
assigned_cc_user	Array of **IssueUser** objects	**Parameter description**: Cc recipient.
assigned_user	**IssueUser** object	**Parameter description**: Handler.
begin_time	String	**Parameter description**: Estimated start time. The format is YYYY-MM-DD. **Value range**: N/A
closed_time	String	**Definition**: Closing time. The format is YYYY-MM-DD. **Value range**: N/A
created_time	String	**Parameter description**: Creation time. The format is YYYY-MM-DD HH:MM:SS. **Value range**: N/A
creator	**IssueUser** object	**Parameter description**: Creator.

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Parameter	Type	Description
custom_fields	Array of **CustomField** objects	**Parameter description**: Custom property value, which is not recommended. Refer to the **new_custom_fields** field.
developer	**IssueUser** object	**Parameter description**: Developer.
domain	**domain** object	**Definition**: Domain.
done_ratio	Integer	**Definition**: Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Options**: Minimum value: **0**. Maximum value: **100**.
end_time	String	**Definition**: Estimated end time. The format is YYYY-MM-DD. **Options**: N/A
expected_work_hours	Double	**Definition**: Estimated workloads. **Options**: Minimum value: **0**.
id	Integer	**Definition**: Work item ID. **Options**: 0 to 9,999,999,999
iteration	**iteration** object	**Definition**: Sprint.
module	**module** object	**Definition**: Module.
name	String	**Definition**: Title. **Options**: N/A

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Parameter	Type	Description
new_custom_fields	Array of **NewCustomField** objects	**Definition**: Custom property value.
parent_issue	**parent_issue** object	**Definition**: Parent work item.
priority	**priority** object	**Definition**: Work item priority.
project	**IssueProjectResponseV4** object	**Definition**: Project information.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Work item status.
tracker	**tracker** object	**Definition**: Work item type.
updated_time	String	**Definition**: Update time. The format is YYYY-MM-DD HH:MM:SS. **Options**: N/A

Table 4-306 IssueUser

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

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

Table 4-307 CustomField

Parameter	Type	Description
name	String	**Definition**: Custom property name. **Value range**: N/A
new_name	String	**Definition**: Custom property name. **Value range**: N/A
value	String	**Definition**: Value of the custom property. **Value range**: N/A

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Table 4-308 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. The options are as follows: **14**: performance **15**: performance **16**: reliability **17**: cyber security **18**: maintainability **19**: other DFX **20**: availability **Options**: **14**, **15**, **16**, **17**, **18**, **19**, and **20**
name	String	**Definition**: Domain name. **Options**: N/A

Table 4-309 iteration

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

Table 4-310 module

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

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

Table 4-311 NewCustomField

Parameter	Type	Description
custom_field	String	**Parameter description**: Custom field. You can obtain the **custom_field** value returned using the [Querying Custom Fields of a Scrum Work Item]ListIssueCustomFields.xml) API. **Constraints**: This field can be left blank. **Options**: N/A **Default value**: N/A
field_name	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values, which can be obtained by querying the **name** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
value	String	**Definition**: Values of custom properties. Use commas (,) to separate multiple values. You can obtain the value by querying the **options** value returned when calling the **Querying Custom Fields of a Scrum Work Item** API. **Constraints**: This field can be left blank. **Value range**: N/A **Default value**: N/A

Table 4-312 parent_issue

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

Table 4-313 priority

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

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

Table 4-314 IssueProjectResponseV4

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

Table 4-315 severity

Parameter	Type	Description
id	Integer	**Definition**: Severity ID. The options are as follows: **10**: critical **11**: major **12**: minor **13**: info **Options**: **10**, **11**, **12**, and **13**
name	String	**Definition**: Severity. **Options**: N/A

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Table 4-316 status

Parameter	Type	Description
id	Integer	**Definition**: Status ID. The options are as follows: **1**: initial **2**: in progress **3**: solved **4**: testing **5**: closed **6**: rejected **Options**: **1**, **2**, **3**, **4**, **5**, and **6**
name	String	**Definition**: Status name. **Options**: N/A

Table 4-317 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID. The options are as follows: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Options**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Type name. **Options**: N/A

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Table 4-318 SecurityLevelResult

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

Status code: 400

Table 4-319 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-320 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Example Requests

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

Example Responses

Status code: 200

OK


```
{
  "issues" : [ {
    "actual_work_hours" : 0,
    "assigned_cc_user" : [ {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    } ],
    "assigned_user" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "begin_time" : "2020-09-12",
    "created_time" : "2020-09-13 14:40:11",
    "creator" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "custom_fields" : [ {
      "name" : "customField16",
      "value" : "Check box",
      "new_name" : "custom_field16"
    } ],
    "new_custom_fields" : [ {
      "custom_field" : "custom_field16",
      "field_name" : "field_name",
      "value" : "Check box 1, Check box 2"
    } ],
    "developer" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "domain" : {
      "id" : 14,
      "name" : "Performance"
    },
    "done_ratio" : 0,
    "end_time" : "2020-09-19",
    "expected_work_hours" : 9,
    "id" : 4567,
    "project" : {
      "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
      "project_name" : "testDemo",
      "project_num_id" : 78953
    },
    "iteration" : {
      "id" : 456,
      "name" : "Sprint 1"
    },
    "module" : {
      "id" : 456,
      "name" : "Project"
    },
    "name" : "Internationalization improvement",
    "parent_issue" : {
      "id" : 123,
```


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```
    "name" : "Querying project members"
   },
   "priority" : {
    "id" : 1,
    "name" : "Low"
   },
   "severity" : {
    "id" : 12,
    "name" : "General"
   },
   "status" : {
    "id" : 1,
    "name" : "New"
   },
   "tracker" : {
    "id" : 7,
    "name" : "story"
   },
   "updated_time" : "2020-09-14 14:40:11",
   "closed_time" : "2020-09-15 14:40:11"
  } ],
  "total" : 1
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.16 Querying Historical Records of All Work Items in a Project

Function

This API is used to query historical records of all work items in a project.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-321 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Table 4-322 Query Parameters

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

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Parameter	Mandatory	Type	Description
operated_time_interval	No	String	**Definition**: Work item change query duration (start and end time). **Constraints**: N/A **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-323 Request header parameters

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

Response Parameters

Status code: 200

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Table 4-324 Response body parameters

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

Table 4-325 IssueAttrHistoryRecord

Parameter	Type	Description
field_key	String	**Definition**: Operation field. **Options**: N/A
field_name	String	**Definition**: Name of the operation field. **Options**: N/A
id	Long	**Definition**: Historical record ID. **Options**: N/A
issue_id	Long	**Definition**: Work item ID. **Options**: N/A
new_value	String	**Definition**: Value after modification. The value is a JSON character string. **Options**: N/A

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Parameter	Type	Description
old_value	String	**Definition**: Value before modification. The value is a JSON character string. **Options**: N/A
operated_time	Long	**Definition**: Time when the change occurs. **Options**: N/A
operation	String	**Definition**: Operation type. **Options**: Create Modify Delete
operator	**IssueUser** object	**Definition**: Operator.
property	String	**Definition**: Changed property. **Options**: N/A

Table 4-326 IssueUser

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

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

Status code: 400

Table 4-327 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-328 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

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

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Example Responses

Status code: 200

OK

```
{
  "records" : [ {
    "field_key" : "status",
    "field_name" : "Status.",
    "id" : 789,
    "issue_id" : 123,
    "new_value" : "{\"id\": \"2\", \"name\": \"Developing\"}",
    "old_value" : "{\"id\":\"1\", \"name\":\"New\"}",
    "operated_time" : 1601175640000,
    "operation" : "Modify",
    "operator" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "Tom"
    },
    "property" : "attr"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ListProjectIssuesRecordsV4Solution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectIssuesRecordsV4Request request = new ListProjectIssuesRecordsV4Request();
        request.withProjectId("{project_id}");
        try {
            ListProjectIssuesRecordsV4Response response = client.listProjectIssuesRecordsV4(request);
```

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListProjectIssuesRecordsV4Request()
        request.project_id = "{project_id}"
        response = client.list_project_issues_records_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectIssuesRecordsV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectIssuesRecordsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.17 Querying the Work Item Transfer Configuration of a Scrum Project

Function

This API is used to query work item transition configurations of a Scrum project.

Calling Method

For details, see **Calling APIs**.

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URI

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

Table 4-329 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Table 4-330 Query Parameters

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

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Request Parameters

None

Response Parameters

Status code: 200

Table 4-331 Response body parameters

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

Table 4-332 ScrumStatusFlowVo

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

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Table 4-333 ScrumStatusFlowDirectToVo

Parameter	Type	Description
enabled	Boolean	**Definition**: Whether to enable transition. **Options**: N/A
id	String	**Definition**: UUID of the transition data. **Options**: N/A
name	String	**Definition**: Status. **Options**: N/A
status_id	Integer	**Definition**: Status ID. **Options**: N/A

Status code: 400

Table 4-334 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-335 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Example Requests

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

Example Responses

Status code: 200

OK

```
{
  "workflows" : [ {
    "id" : "2e645dbab6874a3eafa77ef06b97ea75",
    "name" : "New",
    "status_id" : 1,
    "direct_to" : [ {
      "id" : "2e645dbab6874a3eafa77ef06b97ea75",
      "status_id" : 2,
      "name" : "New",
      "enabled" : true
    } ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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


public class ShowIssuesWrokFlowConfigSolution {

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

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

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIssuesWrokFlowConfigRequest request = new ShowIssuesWrokFlowConfigRequest();
        request.withProjectId("{project_id}");
        try {
            ShowIssuesWrokFlowConfigResponse response = client.showIssuesWrokFlowConfig(request);
            System.out.println(response.toString());
```

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

Python

```
# coding: utf-8

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

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

    credentials = BasicCredentials(ak, sk)

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

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

Go

```
package main

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

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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

Function

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

URI

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

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Table 4-336 Path Parameters

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

Request Parameters

Table 4-337 Request header parameters

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

Table 4-338 Request body parameters

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

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

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Table 4-339 NewCustomField

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

Table 4-340 Creator

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

Table 4-341 ScrumCustomField

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

Response Parameters

Status code: 200

Table 4-342 Response body parameters

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

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Parameter	Type	Description
custom_fields	Array of **CustomField** objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of **NewCustomField** objects	Attribute Value
developer	**IssueUser** object	Developer Information.
domain	**domain** object	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratio	Integer	Work Item Progress Value
end_time	String	End time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	**IssueProjectResponseV4** object	Project Information
iteration	**iteration** object	Sprint
module	**module** object	Module
parent_issue	**parent_issue** object	Parent Work Item
priority	**priority** object	Work Item Priority
severity	**severity** object	Work Item Importance
status	**status** object	Work Item Statuses
tracker	**tracker** object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

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Table 4-343 IssueUser

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

Table 4-344 CustomField

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

Table 4-345 NewCustomField

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

Table 4-346 domain

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

Table 4-347 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project

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Parameter	Type	Description
project_num_id	Integer	Project ID

Table 4-348 iteration

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

Table 4-349 module

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

Table 4-350 parent_issue

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

Table 4-351 priority

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

Table 4-352 severity

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

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Table 4-353 status

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

Table 4-354 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-355 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-356 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

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

{
  "parent_issue_id" : 1679822,
  "end_time" : "2018-07-05",
  "name" : "test",
  "begin_time" : "2018-1-31",
  "description" : "",
  "assigned_id" : 4091,
  "developer_id" : 4091,
  "tracker_id" : 3,
  "status_id" : 1,
  "priority_id" : 2,
```

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```
  "severity_id" : 10,
  "iteration_id" : 11302238,
  "creator" : {
    "user_id" : "a360371833bf4c558f796fd707b44daf"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear"
  },
  "begin_time" : "2020-09-12",
  "creator" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "Check box",
    "new_name" : "custom_field16"
  } ],
  "new_custom_fields" : [ {
    "custom_field" : "custom_field16",
    "field_name" : "field_name",
    "value" : "Check box 1, Check box 2"
  } ],
  "developer" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "domain" : {
    "id" : 14,
    "name" : "Performance"
  },
  "done_ratio" : 0,
  "end_time" : "2020-09-19",
  "expected_work_hours" : 9,
  "id" : 4567,
  "project" : {
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
    "project_name" : "testDemo",
    "project_num_id" : 78953
  },
  "iteration" : {
    "id" : 456,
    "name" : "Iteration 1"
  },
  "module" : {
    "id" : 456,
    "name" : "Project"
  },
  "parent_issue" : {
    "id" : 123,
```

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```
    "name" : "parentIssue"
  },
  "priority" : {
    "id" : 1,
    "name" : "Low"
  },
  "severity" : {
    "id" : 12,
    "name" : "Middle"
  },
  "status" : {
    "id" : 1,
    "name" : "New"
  },
  "tracker" : {
    "id" : 7,
    "name" : "story"
  }
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.19 Querying the Work Items Associated with the Current Work Item

Function

This API is used to query the work items associated with the current work item.

Calling Method

For details, see **Calling APIs**.

URI

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

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Table 4-357 Path Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Table 4-358 Query Parameters

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

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Request Parameters

Table 4-359 Request header parameters

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

Response Parameters

Status code: 200

Table 4-360 Response body parameters

Parameter	Type	Description
issues	Array of **AssociateIssueDetail** objects	**Definition**: List of associated work items.
total	Integer	**Definition**: Total number of associated work items. **Options**: N/A

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Table 4-361 AssociateIssueDetail

Parameter	Type	Description
issue_id	Integer	**Definition**: Work item ID. **Options**: N/A
project	**SimpleProject** object	**Definition**: Project information.
status	**StatusVo** object	**Definition**: Work item status information. **Options**: N/A
subject	String	**Definition**: Work item title. **Options**: N/A
user	**SimpleUser** object	**Definition**: User information.

Table 4-362 SimpleProject

Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. You can obtain the value of this parameter from the **Querying the Project List** API. The value is **project_id** of the response body. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Default value**: N/A
project_name	String	**Definition**: Project name. **Options**: N/A

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Table 4-363 StatusVo

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

Table 4-364 SimpleUser

Parameter	Type	Description
nick_name	String	**Definition**: User alias, which is the value of **nick_name** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A
user_id	String	**Definition**: User UUID, which is the value of **user_id** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
user_name	String	**Definition**: Account name, which is the value of **user_name** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user, which is the value of **user_num_id** of the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Status code: 400

Table 4-365 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-366 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes

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Parameter	Type	Description
error_msg	String	Description

Example Requests

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

Example Responses

Status code: 200

Retrieve the return information of work items currently associated with the current work item.

```
{
  "issues" : [ {
    "subject" : "demo",
    "issue_id" : 1234,
    "project" : {
      "project_name" : "demo",
      "project_id" : "58d9050550c847c89885c1797a718b0c"
    },
    "user" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "bear"
    },
    "status" : {
      "id" : "1",
      "name" : "Not started"
    }
  } ],
  "total" : 12
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListAssociatedIssuesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
```

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```
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListAssociatedIssuesRequest request = new ListAssociatedIssuesRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListAssociatedIssuesResponse response = client.listAssociatedIssues(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListAssociatedIssuesRequest()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_associated_issues(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListAssociatedIssuesRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListAssociatedIssues(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Retrieve the return information of work items currently associated with the current work item.
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.6.20 Queries the associated Wikis associated with the current work item.

Function

Queries the associated Wikis associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-wikis

Table 4-367 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: **32** Maximum: **32**
issue_id	Yes	Integer	Work Item ID

Table 4-368 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-369 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **10** Maximum: **32768**

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Response Parameters

Status code: 200

Table 4-370 Response body parameters

Parameter	Type	Description
wikis	Array of **AttachWikiDetail** objects	Associated wiki list
total	Integer	Total

Table 4-371 AttachWikiDetail

Parameter	Type	Description
issue_id	Integer	Work Item ID
wiki_title	String	Wiki Title
wiki_author	**SimpleUser** object	User Information.
project	**SimpleProject** object	Project Information.
created_date	String	Created
wiki_id	String	wiki ID
region	String	Indicates the region value.

Table 4-372 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

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Table 4-373 SimpleProject

Parameter	Type	Description
project_name	String	Project name
project_id	String	Project ID

Status code: 400

Table 4-374 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-375 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-wikis
```

Example Responses

Status code: 200

```
{
  "wikis" : [ {
    "issue_id" : 1234,
    "wiki_title" : "wikidemo",
    "wiki_author" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "demo"
    },
    "project" : {
      "project_name" : "demo",
      "project_id" : "58d9050550c847c89885c1797a718b0c"
    },
    "created_date" : "2021-11-18 19:47:34",
    "wiki_id" : "1839097",
    "region" : "cn-north-xxx"
  } ],
```

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```
  "total" : "success"
}
```

Status Codes

Status Code	Description
200	Ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.21 Queries the code submission records or branch creation records associated with the current work item.

Function

Queries the code submission records or branch creation records associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-commits

Table 4-376 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: **32** Maximum: **32**
issue_id	Yes	Integer	Work Item ID

Table 4-377 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Query type. The options are commit (submission record) and branch (branch record).

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Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-378 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **10** Maximum: **32768**

Response Parameters

Status code: 200

Table 4-379 Response body parameters

Parameter	Type	Description
commits	Array of **CommitRecordDetail** objects	Submission Record List
total	Integer	Total

Table 4-380 CommitRecordDetail

Parameter	Type	Description
repository_id	String	Warehouse ID
branch_name	String	Branch Name
commit_id	String	commit id
commit_short_id	String	commit short id

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Parameter	Type	Description
commit_msg	String	Commit information
commit_url	String	commit URL
user	**SimpleUser** object	User Information.
type	String	Item type.
create_date	String	Created
update_date	String	Update time.

Table 4-381 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Status code: 400

Table 4-382 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-383 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

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Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-commits

GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/122344/associated-commits
```

Example Responses

Status code: 200

```
{
  "commits" : [ {
    "repository_id" : "1865706",
    "branch_name" : "master",
    "commit_id" : "f608b02311d90f311c41711fdf67003c31305b89",
    "commit_short_id" : "f608b023",
    "commit_msg" : "demo",
    "commit_url" : "https://xxx.xxx/xxxx/commit/791877f7d0e0b2032bc5e38425c1245e804e8741?ref=master",
    "user" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "bear"
    },
    "type" : "branch",
    "create_date" : "2021-11-18 19:47:34",
    "update_date" : "2021-11-18 19:47:34"
  } ],
  "total" : "success"
}
```

Status Codes

Status Code	Description
200	Ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.22 Querying Associated Cases

Function

This API is used to query associated cases.

Calling Method

For details, see **Calling APIs**.

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URI

GET /v4/projects/{project_id}/issues/{issue_id}/associate-test-cases

Table 4-384 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-385 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-386 Response body parameters

Parameter	Type	Description
test_cases	Array of **AssociatedTestCase** objects	**Definition**: List of associated test cases.
total	Integer	**Definition**: Total number. **Options**: N/A

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Table 4-387 AssociatedTestCase

Parameter	Type	Description
case_id	String	**Definition**: Case ID. **Options**: N/A
case_level	String	**Definition**: Case level. **Options**: N/A
case_name	String	**Definition**: Case name. **Options**: N/A
case_num	String	**Definition**: Case ID. **Options**: N/A
created_time	Long	**Definition**: Creation time. **Options**: N/A
creator	**SimpleUser** object	**Definition**: Creator.
is_base_line	Integer	**Definition**: Baseline or not. **Options**: N/A
owner	**SimpleUser** object	**Definition**: Owner.
project	**SimpleProject** object	**Definition**: Project information.
status	**StatusVo** object	**Definition**: Status.

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Parameter	Type	Description
type	String	**Definition**: Case type. **Options**: N/A

Table 4-388 SimpleUser

Parameter	Type	Description
nick_name	String	**Definition**: User alias, which is the value of **nick_name** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A
user_id	String	**Definition**: User UUID, which is the value of **user_id** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
user_name	String	**Definition**: Account name, which is the value of **user_name** in the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user, which is the value of **user_num_id** of the list of members in a specified project returned by calling the **Obtaining the Member List of a Specified Project** API. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-389 SimpleProject

Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. You can obtain the value of this parameter from the **Querying the Project List** API. The value is **project_id** of the response body. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Default value**: N/A

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Parameter	Type	Description
project_name	String	**Definition**: Project name. **Options**: N/A

Table 4-390 StatusVo

Parameter	Type	Description
id	String	**Definition**: Status ID. **Options**: N/A
name	String	**Definition**: Value of the status ID. **Options**: N/A

Status code: 400

Table 4-391 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-392 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/1234/associate-test-cases
```

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Example Responses

Status code: 200

ok


```
{
  "test_cases" : [ {
    "case_id" : "36cfaab019dc49cdb53b07aefe553f5a",
    "case_num" : "1",
    "case_name" : "demo",
    "case_level" : "2",
    "status" : {
      "id" : "1",
      "name" : "Not started"
    },
    "creator" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "bear1"
    },
    "owner" : {
      "user_num_id" : 4091,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_name" : "demo_user_name_xiongzhitest001",
      "nick_name" : "bear1"
    },
    "project" : {
      "project_name" : "demo",
      "project_id" : "58d9050550c847c89885c1797a718b0c"
    },
    "is_base_line" : 0,
    "type" : "1",
    "created_time" : 1233445566000
  } ],
  "total" : 0
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListAssociatedTestCasesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListAssociatedTestCasesRequest request = new ListAssociatedTestCasesRequest();
        request.withProjectId("{project_id}");
        request.withIssueId({issue_id});
        try {
            ListAssociatedTestCasesResponse response = client.listAssociatedTestCases(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListAssociatedTestCasesRequest()
        request.project_id = "{project_id}"
        request.issue_id = {issue_id}
        response = client.list_associated_test_cases(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListAssociatedTestCasesRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = int32({issue_id})
    response, err := client.ListAssociatedTestCases(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.6.23 Querying Customized Fields of Scrum Work Items

Function

This API is used to query the options of custom fields of Scrum work items. Fields that meet the **custom_fields** or **names** condition are returned. If neither of the two conditions is used, all custom fields are returned.

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/{project_id}/issues/custom-fields

Table 4-393 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-394 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-395 Request body parameters

Parameter	Mandatory	Type	Description
custom_fields	No	Array of strings	**Definition**: Custom field. **Constraints**: N/A
included_not_in_use	No	Boolean	**Definition**: Whether unused custom fields are included in the query result. By default, only custom fields that are in use are queried. **Constraints**: **false** (not included) **true** (included) **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
names	No	Array of strings	**Definition**: Custom field name. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-396 Response body parameters

Parameter	Type	Description
datas	Array of IssueCustomField objects	**Definition**: Return data of custom fields. **Constraints**: N/A

Table 4-397 IssueCustomField

Parameter	Type	Description
create_time	String	**Definition**: Creation time of a custom field. **Options**: N/A
custom_field	String	**Definition**: Custom field. **Options**: N/A
name	String	**Definition**: Display meaning of a custom field. **Options**: N/A

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Parameter	Type	Description
options	String	**Definition**: Value options for custom fields. Separate multiple values by commas (,). **Options**: N/A
tracker_ids	Array of integers	**Definition**: Work item types supported by custom fields. **Options**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

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Parameter	Type	Description
type	String	**Definition**: Custom field type. **Value range**: **textArea**: multi-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. **text**: single-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. **select**: drop-down list, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized. **number**: number whose value range is set by users during custom field creation. **date** (The date is accurate to year, month, and day, and **time_date** is accurate to hour, minute, and second. The value is a long integer timestamp.) **checkbox**: check box, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters and a maximum of 60 options can be customized. **radio**: radio box, containing letters, digits, underscore (_), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized.

Status code: 400

Table 4-398 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

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Table 4-399 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Post https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/issues/custom-fields

{
  "included_not_in_use" : true,
  "names" : [ "Drop-down list demo" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "datas" : [ {
    "name" : "selectName",
    "custom_field" : "custom_field16",
    "options" : "selectName1,selectName2",
    "type" : "ratio",
    "tracker_ids" : [ 7 ],
    "create_time" : "2023-05-17T09:50:04+08:00"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListIssueCustomFieldsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
```

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```
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIssueCustomFieldsRequest request = new ListIssueCustomFieldsRequest();
        request.withProjectId("{project_id}");
        ListIssueCustomFieldsRequestBody body = new ListIssueCustomFieldsRequestBody();
        List<String> listbodyNames = new ArrayList<>();
        listbodyNames.add("Drop-down list demo");
        body.withIncludedNotInUse(true);
        body.withNames(listbodyNames);
        request.withBody(body);
        try {
            ListIssueCustomFieldsResponse response = client.listIssueCustomFields(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIssueCustomFieldsRequest()
        request.project_id = "{project_id}"
        listNamesbody = [
            "Drop-down list demo"
        ]
        request.body = ListIssueCustomFieldsRequestBody(
            included_not_in_use=True,
```

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```
            names=listNamesbody
        )
        response = client.list_issue_custom_fields(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListIssueCustomFieldsRequest{}
    request.ProjectId = "{project_id}"
    var listNamesbody = []string{
        "Drop-down list demo",
    }
    includedNotInUseListIssueCustomFieldsRequestBody:= true
    request.Body = &model.ListIssueCustomFieldsRequestBody{
        IncludedNotInUse: &includedNotInUseListIssueCustomFieldsRequestBody,
        Names: &listNamesbody,
    }
    response, err := client.ListIssueCustomFields(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.24 Downloading an Image

Function

Downloads an image.

URI

GET /v4/projects/{project_id}/image-file

Table 4-400 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	32-bit ID of a DevCloud project

Table 4-401 Query Parameters

Parameter	Mandatory	Type	Description
image_uri	Yes	String	Image URI

Request Parameters

Table 4-402 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

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Response Parameters

Status code: 200

Table 4-403 Response body parameters

Parameter	Type	Description
-	File	Binary file

Status code: 400

Table 4-404 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-405 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/2c42a6d37ccc4197bf0b3dbe91be021a/image-file?image_uri=/v1/upload/2c42a6d37ccc4197bf0b3dbe91be021a/202209/1662003438194761550.png
```

Example Responses

None

Status Codes

Status Code	Description
200	Binary file

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Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.25 Uploading an Attachment to a Work Item

Function

Uploads an attachment to a work item.

URI

POST /v4/projects/{project_id}/issues/{issue_id}/attachments/upload

Table 4-406 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
issue_id	Yes	String	Work item ID

Request Parameters

Table 4-407 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Table 4-408 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	Attachment file. The maximum size is 50 MB.

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Response Parameters

Status code: 200

Table 4-409 Response body parameters

Parameter	Type	Description
id	Integer	ID of the associated work item
issue_id	Integer	Work item ID
project_id	String	Project ID
disk_filename	String	Storage name on cloud disks
file_name	String	File name
size	String	File size

Status code: 400

Table 4-410 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-411 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Post https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/attachments/upload
```

Example Responses

Status code: 200

```
{
  "id" : "1234,",
  "issue_id" : "1232,",
  "project_id" : "2c42a6d37ccc4197bf0b3dbe91be021a",
```

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```
  "disk_filename" : "adfadsfasdfa.jpg",
  "file_name" : "demo.jpg",
  "size" : "1233"
}
```

Status Codes

Status Code	Description
200	Ok
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.26 Querying Work Hour Types of a Project

Function

This API is used to query work types of a project.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/work-hours-type

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Table 4-412 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Table 4-413 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **100**. **Default value**: 10
offset	No	Integer	**Definition**: Page index. **Constraints**: The offset is an integer multiple of **limit**. **Options**: Minimum value: **0**. **Default value**: **0**

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Parameter	Mandatory	Type	Description
status	No	Integer	**Definition**: Work type status. You can query work types by status. **Constraints**: N/A **Options**: Leave this parameter empty (query all work types). **1** (query enabled work types) **2** (query disabled work types) **Default value**: Empty

Request Parameters

Table 4-414 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-415 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number. **Options**: N/A
work_hours_types	Array of **WorkHoursType** objects	**Definition**: Work type list.

Table 4-416 WorkHoursType

Parameter	Type	Description
id	Integer	**Definition**: Work type ID. **Options**: N/A
name	String	**Definition**: Work type name. **Options**: N/A
status	Integer	**Definition**: Work type name. **Options**: **1** (enabled) **2** (disabled)

Status code: 400

Table 4-417 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

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Table 4-418 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours-type
```

Example Responses

Status code: 200

ok

```
{
  "work_hours_types" : [ {
    "id" : 21,
    "name" : "R&D and design",
    "status" : 1
  }, {
    "id" : 22,
    "name" : "Backend development",
    "status" : 1
  }, {
    "id" : 23,
    "name" : "Frontend development (web)",
    "status" : 1
  }, {
    "id" : 24,
    "name" : "Frontend development (applet)",
    "status" : 1
  }, {
    "id" : 25,
    "name" : "Frontend development (app)",
    "status" : 1
  }, {
    "id" : 26,
    "name" : "Test and verification",
    "status" : 1
  }, {
    "id" : 27,
    "name" : "Bug fixing",
    "status" : 1
  } ],
  "total" : 7
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
```

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```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectWorkHoursTypeSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectWorkHoursTypeRequest request = new ListProjectWorkHoursTypeRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectWorkHoursTypeResponse response = client.listProjectWorkHoursType(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()
```

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```
    try:
        request = ListProjectWorkHoursTypeRequest()
        request.project_id = "{project_id}"
        response = client.list_project_work_hours_type(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectWorkHoursTypeRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectWorkHoursType(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	ok

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Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.27 This API is used to download work item attachments.

Function

This API is used to download work item attachments.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/attachments/{attachment_id}

Table 4-419 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
attachment_id	Yes	String	**Definition**: Attachment ID. You can obtain the ID using the **Querying Work Item Details** API. The **attachment_id** in the accessories list in the return information is the attachment ID. **Constraints**: Regular expression: [1-9][0-9]{0,10} **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-420 Response body parameters

Parameter	Type	Description
-	File	Attachment

Status code: 400

Table 4-421 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-422 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}v4/projects/f7a67aee4c034fd6944fd5f769e89042/issues/5667740/attachments/72372
```

Example Responses

Status code: 400

Bad Request

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
```

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```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DownloadAttachmentSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DownloadAttachmentRequest request = new DownloadAttachmentRequest();
        request.withProjectId("{project_id}");
        request.withIssueId("{issue_id}");
        request.withAttachmentId("{attachment_id}");
        try {
            DownloadAttachmentResponse response = client.downloadAttachment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
```

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```
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DownloadAttachmentRequest()
        request.project_id = "{project_id}"
        request.issue_id = "{issue_id}"
        request.attachment_id = "{attachment_id}"
        response = client.download_attachment(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DownloadAttachmentRequest{}
    request.ProjectId = "{project_id}"
    request.IssueId = "{issue_id}"
    request.AttachmentId = "{attachment_id}"
    response, err := client.DownloadAttachment(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	**Definition**: Binary file of the work item attachment.
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.6.28 Checking Whether the Current User has the Permission to Set Workloads

Function

This API is used to check whether the current user has the permission to set workloads.

Calling Method

For details, see **Calling APIs**.

URI

GET /v3/projects/{project_uuid}/issues/{issue_id}/history-permission

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Table 4-423 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Value range**: N/A **Default value**: N/A
issue_id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-424 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-425 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-426 result

Parameter	Type	Description
is_history_processor	Boolean	**Definition**: Whether the user has the permission to operate workloads. **Value range**: **true** (default value) **false** (not the default value)

Example Requests

```
{endpoint}/v3/projects/381fcca9c056482d92da3e8b9da71db5/issues/69813204/history-permission
```

Example Responses

Status code: 200

Whether the current user has successfully obtained the work hour operation permission.

```
{
  "result" : {
    "is_history_processor" : true
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Whether the current user has successfully obtained the work hour operation permission.

Error Codes

See **Error Codes**.

4.6.29 Querying Work Item Workloads (V3)

Function

This API is used to query work item workloads.

Calling Method

For details, see **Calling APIs**.

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URI

GET /v3/projects/{project_uuid}/issues/{issue_id}/work-hours

Table 4-427 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
issue_id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-428 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-429 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-430 result

Parameter	Type	Description
total	Integer	**Definition**: Total number of workload records. **Value range**: N/A
data	Array of **data** objects	**Definition**: Workload records of a work item.

Table 4-431 data

Parameter	Type	Description
id	String	**Definition**: Workload record ID. **Value range**: N/A
issue_id	Integer	**Definition**: Work item ID. **Value range**: N/A
user_id	String	**Definition**: User ID. **Value range**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
user_name	String	**Definition**: Username. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A

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Parameter	Type	Description
work_date	String	**Definition**: Workload date, in the format of yyyy/MM/dd, for example, **2025/07/25**. **Value range**: N/A
work_date_timestamp	String	**Definition**: Workload date, in timestamp format, for example, **1839340800000**. **Value range**: N/A
work_hours	String	**Definition**: Workloads (unit: person-hour). **Value range**: N/A

Example Requests

```
{endpoint}/v3/projects/381fcca9c056482d92da3e8b9da71db5/issues/69813204/work-hours
```

Example Responses

Status code: 200

The query interface for work item hours records has responded successfully.

```
{
  "result" : {
    "total" : 1,
    "data" : [ {
      "id" : "e7557fef692011f09df2fa163eed4f94",
      "issue_id" : 9184553,
      "user_id" : "xxxxxx",
      "user_num_id" : 1111,
      "user_name" : "xxxxxx",
      "nick_name" : "xxxxxx",
      "work_date" : "2025/07/25",
      "work_date_timestamp" : "1753372800000",
      "work_hours" : "1.0"
    } ]
  },
  "status" : "success"
}
```

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Status Codes

Status Code	Description
200	The query interface for work item hours records has responded successfully.

Error Codes

See **Error Codes**.

4.6.30 Adding Work Item Workloads (V3)

Function

This API is used to add work item workloads.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/projects/{project_uuid}/issues/{issue_id}/work-hours

Table 4-432 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Request Parameters

Table 4-433 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-434 Request body parameters

Parameter	Mandatory	Type	Description
start_date_timestamp	No	Integer	**Definition**: Start time, in timestamp format, for example, **1839340800000**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
due_date_timestamp	No	Integer	**Definition**: End time, in timestamp format, for example, **1839340800000**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
start_date	No	String	**Definition**: Start time in the format of yyyy-MM-dd, for example, **2025-07-25**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
due_date	No	String	**Definition**: End time in the format of yyyy-MM-dd, for example, **2025-07-25**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
use_timestamp	No	Boolean	**Definition**: Whether to use the timestamp. **Constraints**: N/A **Value range**: **true**: yes **false**: no. **Default value**: N/A
work_hours	No	Integer	**Definition**: Workloads (unit: person-hour). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
include_weekends	No	Integer	**Definition**: Whether weekends are included. **Constraints**: N/A **Value range**: **0** (not included) **1** (included) **Default value**: N/A

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Parameter	Mandatory	Type	Description
type	No	Integer	**Definition**: Total workloads. **Constraints**: N/A **Value range**: **0** (eight hours totally) **1** (eight hours a day) **Default value**: N/A

Response Parameters

Status code: 200

Table 4-435 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-436 result

Parameter	Type	Description
list	Array of **list** objects	**Definition**: Workload record list.

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Table 4-437 list

Parameter	Type	Description
id	String	**Definition**: Workload record ID. **Value range**: N/A
issue_id	Integer	**Definition**: Work item ID. **Value range**: N/A
user_id	String	**Definition**: User ID. **Value range**: N/A
user_num_id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
user_name	String	**Definition**: Username. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
work_date	String	**Definition**: Work time in the format of yyyy/MM/dd, for example, **2025/07/25**. **Value range**: N/A
work_date_timestamp	String	**Definition**: Working time in timestamp format, for example, **1839340800000**. **Value range**: N/A

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Parameter	Type	Description
work_hours	String	**Definition**: Workloads (unit: person-hour). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
region	String	**Definition**: Region. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Example Requests

```
/v3/projects/381fcca9c056482d92da3e8b9da71db5/issues/69813204/work-hours

{
  "start_date_timestamp" : 1753372800000,
  "due_date_timestamp" : 1753459199999,
  "start_date" : "2025-07-25",
  "due_date" : "2025-07-25",
  "use_timestamp" : true,
  "work_hours" : 1,
  "include_weekends" : 0,
  "type" : 0
}
```

Example Responses

Status code: 200

Returned result of adding workloads for a work item.

```
{
  "result" : {
    "list" : [ {
      "id" : "78c74003692311f0aa95fa163e60f658",
      "issue_id" : 69813204,
      "user_id" : "073a9e23188025b31f06c0104a74c376",
      "user_num_id" : 233087,
      "user_name" : "hw_008618814464665_01",
      "nick_name" : "asdf4",
      "work_date" : "2025/07/25",
      "work_date_timestamp" : "1753372800000",
      "work_hours" : "1.0",
      "region" : "example"
```

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```
  } ]
 },
 "status" : "success"
}
```

Status Codes

Status Code	Description
200	Returned result of adding workloads for a work item.

Error Codes

See **Error Codes**.

4.6.31 Querying the Child Work Item List (V2)

Function

This API is used to query the child work item list (V2).

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/issues/child-issue-list

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Request Parameters

Table 4-438 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-439 Request body parameters

Parameter	Mandatory	Type	Description
parent_id	No	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_uuid	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
subject	No	String	**Definition**: Work item title, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **name** field in the response message body is the work item title. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
query_type	No	String	**Definition**: Query mode of a transaction. **Constraints**: N/A **Value range**: **basic** (basic query) **custom** (temporary filtering) **query** (filter) **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-440 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Response result.
status	String	**Definition**: Response status.

Table 4-441 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of child work items. **Value range**: N/A

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Parameter	Type	Description
issues	Array of **issues** objects	**Definition**: Work item list information. **Value range**: N/A

Table 4-442 issues

Parameter	Type	Description
updated_on	String	**Definition**: Work item update time (in timestamp format, for example, **1839340800000**). **Value range**: N/A
subject	String	**Description**: Work item title. **Value range**: N/A
parent_issue	**ParentIssue** object	**Definition**: Parent work item. **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
project	**Project** object	**Definition**: Project information. **Value range**: N/A
done_ratio	Integer	**Definition**: Work item completion rate. For example, **20** indicates that the completion rate is 20%. **Value range**: Minimum value: **0**. Maximum value: **100**.

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Parameter	Type	Description
find_release_dev	String	**Definition**: Released version where the bug was found. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: **0** to **9,999,999,999**
release_dev	String	**Definition**: Release version of a work item. **Value range**: N/A
customValueNew	Object	**Definition**: Custom field value of a work item. **Value range**: N/A
order	**IssueOrderV4** object	**Definition**: Position of a work item in the list.
assigned_to	**IssueAuthorVO** object	**Definition**: Handler.
status_attribute	**StateAttribute** object	**Definition**: Status attribute. The value can be **To do**, **Doing**, or **Done**. **Value range**: N/A
severity	**Severity** object	**Definition**: Work item severity. **Value range**: N/A

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Parameter	Type	Description
is_parent	Boolean	**Definition**: Whether the current work item is a parent work item. **Value range**: N/A
author	**IssueAuthorVO** object	**Definition**: Work item submitter. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads for completion (unit: person-hour). **Value range**: Minimum value: **0**.
priority	**Priority** object	**Definition**: Work item priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads (unit: person-hour). **Constraints**: N/A
is_watcher	Boolean	**Definition**: Whether the user has favorited the work item. **Value range**: **true**: The user has favorited the work item. **true**: The user has not favorited the work item.

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Parameter	Type	Description
deleted	Boolean	**Definition**: Whether the work item has been deleted. **Value range**: **true**: deleted **false**: not deleted
fixed_version	Object	**Definition**: Version in which a work item is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Whether a work item has been archived. **Value range**: **true**: archived **false**: not archived
created_on	String	**Definition**: Time when a work item is created (in timestamp format, for example, **1839340800000**). **Value range**: N/A
domain	Object	**Definition**: Domain information. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Person who closes a work item. **Value range**: N/A

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Parameter	Type	Description
parent_issue_id	Integer	**Definition**: Parent work item ID. **Value range**: N/A
position	String	**Definition**: Sorting value of a work item on the page. **Value range**: N/A
closed_flag	Integer	**Definition**: Whether the work item is closed. **Value range**: **0**: not closed **1**: closed
assigned_cc_user	Array of strings	**Definition**: Cc recipient of a work item. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-443 ParentIssue

Parameter	Type	Description
subject	String	**Definition**: Parent work item name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of the parent work item. **Value range**: Minimum value: **0**.

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Table 4-444 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-445 Tracker

Parameter	Type	Description
name	String	**Definition**: Type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
id	Integer	**Definition**: Type ID. **Value range**: **2**, **3**, **5**, **6**, and **7**

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Table 4-446 IssueOrderV4

Parameter	Type	Description
id	Integer	**Definition**: Sequence ID of a work item in the list. **Value range**: N/A
name	String	**Definition**: Sequence of a work item in the list. **Value range**: N/A

Table 4-447 StateAttribute

Parameter	Type	Description
id	String	**Definition**: Attribute ID of the work item status. **Value range**: N/A
name	String	**Definition**: Name of a work item status. **Value range**: To Do Doing Done

Table 4-448 Severity

Parameter	Type	Description
name	String	**Definition**: Work item severity. **Value range**: **10**: critical **11**: major **12**: minor **13**: trivial

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Parameter	Type	Description
id	Integer	**Definition**: Severity ID. **Value range**: **10**, **11**, **12**, and **13**

Table 4-449 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-450 Priority

Parameter	Type	Description
name	String	**Definition**: Work item priority. **Value range**: **1**: low **2**: medium **3**: high
id	Integer	**Definition**: Priority ID. **Value range**: **1**, **2**, and **3**

Table 4-451 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**, **2**, **3**, **4**, **5**, and **6**

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Example Requests

```
POST http://{endpoint}/v2/issues/child-issue-list

{
  "parent_id" : 69783229,
  "project_uuid" : "d00fd603ddf64115939e7d3609d6cb05",
  "subject" : "",
  "query_type" : "basic",
  "page_no" : "1",
  "page_size" : "10"
}
```

Example Responses

Status code: 200

OK (The request has succeeded).


```
{
  "result" : {
    "total_count" : 1,
    "issues" : [ {
      "updated_on" : "1753346232000",
      "subject" : "Task - Tag filtering 01",
      "parent_issue" : {
        "subject" : "Story - Tag filtering 01",
        "id" : 9184452
      },
      "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br /></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br /></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
      "project" : {
        "identifier" : "873ca7d1592f4921b4644dc16a1176f5",
        "name" : "Scrum-tree filter by tag",
        "id" : 35165288,
        "type" : "scrum"
      },
      "done_ratio" : 0,
      "tracker" : {
        "name" : "Task",
        "id" : 2
      },
      "id" : 9184453,
      "customValueNew" : { },
      "order" : {
        "name" : 1,
        "id" : 1
      },
      "assigned_to" : {
        "first_name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "image_id" : "photo01.png",
        "assigned_nick_name" : "Sam 1",
        "name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091
      },
      "status_attribute" : {
        "name" : "To Do",
        "id" : 35160238
      },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
      "author" : {
        "first_name" : "devcloud_devcloud_s00404480_01",
```


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```
      "last_name" : "devcloud_devcloud_s00404480_01",
      "identifier" : "a360371833bf4c558f796fd707b44daf",
      "image_id" : "photo01.png",
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091
    },
    "module" : { },
    "expected_work_hours" : 0,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1753346232000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "parent_issue_id" : 9184452,
    "position" : "9184453.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "status" : {
      "name" : "New",
      "id" : 1
    }
   } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.32 Obtaining Comments on a Work Item (V2)

Function

This API is used to obtain comments on a work item (V2).

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issues/get-comments

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Table 4-452 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**

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Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
type	Yes	String	**Definition**: Project type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Request Parameters

Table 4-453 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-454 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Result of querying comments on a work item.
status	String	**Definition**: Returned status.

Table 4-455 result

Parameter	Type	Description
comments	Array of **comments** objects	**Definition**: List of comments on a work item.

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Parameter	Type	Description
journals_total	Integer	**Definition**: Total number of comments. **Value range**: N/A

Table 4-456 comments

Parameter	Type	Description
id	Integer	**Definition**: Comment ID. **Value range**: N/A
notes	String	**Definition**: Comment on a work item. **Value range**: N/A
created_on	String	**Definition**: Timestamp when a comment is created, for example, **1754361449000**. **Value range**: N/A
user	**IssueUserVO** object	**Definition**: Information about the user who posts a comment. **Value range**: N/A

Table 4-457 IssueUserVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/issues/get-comments?
issue_id=9182484&project_uuId=af2d9ea776204a4395e238dd156b2ca9&limit=10&offset=0&type=scrum&_=
1753348089805
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : {
    "comments" : [ {
      "id" : 11260742,
      "notes" : "<p>In this time</p>",
      "created_on" : "1753348089000",
      "user" : {
        "id" : 1111,
        "name" : "xxxxxx",
        "first_name" : "xxxxxx",
        "nick_name" : "xxxxxx",
        "image_id" : "photo01.png",
        "identifier" : "xxxxxx"
      }
```

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```
  }, {
    "id" : 11260741,
    "notes" : "<p>Safety</p>",
    "created_on" : "1753348085000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "nick_name" : "xxxxxx",
      "image_id" : "photo01.png",
      "identifier" : "xxxxxx"
    }
  } ],
  "journals_total" : 2
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.33 Obtaining the Operation History (V2)

Function

This API is used to obtain the operation history (V2).

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issues/get-record

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Table 4-458 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
type	No	String	**Description**: Project type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A

Request Parameters

None

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Response Parameters

Status code: 200

Table 4-459 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success** and **error**

Table 4-460 result

Parameter	Type	Description
offset	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. **Value range**: Minimum value: **0**. Maximum value: **10,000**.
record	Array of **RecordRecord** objects	**Definition**: Historical record list.
limit	Integer	**Definition**: Number of records displayed on each page. **Value range**: Minimum value: **1**. Maximum value: **1,000**.
journals_total	Integer	**Definition**: Total number of log records. **Value range**: N/A

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Table 4-461 RecordRecord

Parameter	Type	Description
id	Integer	**Definition**: Operation batch ID in the historical records. Operations performed at the same time share an identical ID. **Value range**: N/A
notes	String	**Definition**: Remarks or comments related to log records. **Value range**: N/A
created_on	String	**Definition**: Timestamp when a historical record is created. **Value range**: N/A
user	**IssueUserVO** object	**Definition**: Operator information.
details	Array of **DetailsRecord** objects	**Definition**: Detailed information about historical records.

Table 4-462 IssueUserVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A

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Parameter	Type	Description
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-463 DetailsRecord

Parameter	Type	Description
id	Integer	**Definition**: Historical record ID. **Value range**: N/A
journal_id	Integer	**Definition**: Historical record ID. **Value range**: N/A
property	String	**Definition**: Changed attribute, for example, **attr**. **Value range**: N/A

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Parameter	Type	Description
new_value	String	**Definition**: Value of an attribute after modification. **Value range**: N/A
name	String	**Definition**: Field name of a historical record operation. **Value range**: N/A
operation	String	**Definition**: Operation performed on an attribute, for example, **create**, **delete**, and **modify**. **Value range**: N/A
old_value	String	**Definition**: Value of an attribute before modification. **Value range**: N/A

Example Requests

```
GET http://{endpoint}/v2/issues/get-record?
issue_id=9175005&project_id=c15cc54e338d4506afd9bd8103071ff0&limit=10&offset=0&type=scrum&_=1753
080349806
```

Example Responses

Status code: 200

The API for retrieving historical operation records has responded successfully.


```
{
  "result" : {
    "offset" : 0,
    "record" : [ {
      "id" : 11248513,
      "created_on" : "1752829690000",
      "user" : {
        "id" : 1111,
        "name" : "xxxxxx",
        "first_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "nick_name" : "xxxxxx"
      },
      "details" : [ {
        "id" : 15270161,
```


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```
      "journal_id" : 11248513,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "1752854400000",
      "name" : "due_date",
      "operation" : "Batch edit"
    } ]
  }, {
    "id" : 11248513,
    "created_on" : "1752829690000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270162,
      "journal_id" : 11248513,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "1752768000000",
      "name" : "start_date",
      "operation" : "Batch edit"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270149,
      "journal_id" : 11248512,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "444",
      "name" : "subject",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270150,
      "journal_id" : 11248512,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User
role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </
span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight:
bold;\"> so as to </span><do something>&amp;nbsp;</p>",
      "name" : "description",
      "operation" : "Create"
    } ]
```


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```
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
    "id" : 15270151,
    "journal_id" : 11248512,
    "property" : "attr",
    "new_value" : "New",
    "name" : "status_id",
    "operation" : "New"
  } ]
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
    "id" : 15270152,
    "journal_id" : 11248512,
    "property" : "attr",
    "old_value" : "",
    "new_value" : "xxxxxx",
    "name" : "assigned_to_id",
    "operation" : "Create"
  } ]
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
  },
  "details" : [ {
    "id" : 15270153,
    "journal_id" : 11248512,
    "property" : "attr",
    "old_value" : "",
    "new_value" : "1",
    "name" : "order",
    "operation" : "Create"
  } ]
}, {
  "id" : 11248512,
  "notes" : "",
  "created_on" : "1752829683000",
  "user" : {
    "id" : 1111,
    "name" : "xxxxxx",
    "first_name" : "xxxxxx",
    "identifier" : "xxxxxx",
    "nick_name" : "xxxxxx"
```


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```
    },
    "details" : [ {
      "id" : 15270154,
      "journal_id" : 11248512,
      "property" : "attr",
      "new_value" : "Medium",
      "name" : "priority_id",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270155,
      "journal_id" : 11248512,
      "property" : "attr",
      "new_value" : "Minor",
      "name" : "severity_id",
      "operation" : "Create"
    } ]
  }, {
    "id" : 11248512,
    "notes" : "",
    "created_on" : "1752829683000",
    "user" : {
      "id" : 1111,
      "name" : "xxxxxx",
      "first_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "nick_name" : "xxxxxx"
    },
    "details" : [ {
      "id" : 15270156,
      "journal_id" : 11248512,
      "property" : "attr",
      "old_value" : "",
      "new_value" : "xxxxxx",
      "name" : "assigned_cc",
      "operation" : "Create"
    } ]
  } ],
  "limit" : 10,
  "journals_total" : 14
},
"status" : "success"
}
```


Status Codes

Status Code	Description
200	The API for retrieving historical operation records has responded successfully.

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Error Codes

See **Error Codes**.

4.6.34 Querying All Tags of a Work Item

Function

This API is used to query all tags of a work item.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issues/query-tags

Table 4-464 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
name	No	String	**Definition**: Tag name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-465 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-466 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-467 result

Parameter	Type	Description
tags	Array of **tags** objects	**Definition**: Tag.

Table 4-468 tags

Parameter	Type	Description
id	Integer	**Definition**: Tag ID. **Value range**: N/A
name	String	**Definition**: Tag name. **Value range**: N/A
encode_name	String	**Definition**: Tag code name. **Value range**: N/A
tag_count	Integer	**Definition**: Number of tags. **Value range**: N/A

Example Requests

{endpoint}/v2/issues/query-tags?project_uuid=5192de5eb435430c8cd41c6ae6028848&_=1753183910332

Example Responses

Status code: 200

The query for all tags of the work item was successfully responded.


```
{
  "result" : {
    "tags" : [ {
      "id" : 88486,
      "name" : "2222",
      "encode_name" : "2222",
      "tag_count" : 1
    }, {
      "id" : 88487,
      "name" : "Special",
```


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```
    "encode_name" : "&amp;#x7279;&amp;#x7279;",
    "tag_count" : 1
   } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	The query for all tags of the work item was successfully responded.

Error Codes

See **Error Codes**.

4.6.35 Querying Transaction Details (V2)

Function

This API is used to query transaction details (V2).

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issues/show

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Table 4-469 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
include	Yes	String	**Definition**: Parent and child types of the work items to be queried. **Constraints**: N/A **Value range**: **children** and **parent** **Default value**: N/A

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Request Parameters

Table 4-470 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-471 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned information.
status	String	**Definition**: Returned status.

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Table 4-472 result

Parameter	Type	Description
issue	**IssueDetailResponseV2** object	**Definition**: Whether a custom status name is duplicate. **Value range**: **true** (duplicate) **false** (not duplicate)

Table 4-473 IssueDetailResponseV2

Parameter	Type	Description
actual_work_hours	Double	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
assigned_cc_user	Array of **UserVO** objects	**Definition**: Cc recipient of the current work item.
assigned_to	**UserVO** object	**Definition**: Current owner of a work item.
start_date	String	**Definition**: Estimated start time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
created_on	String	**Definition**: Time when a work item is created, in timestamp format, for example, **1754374102000**. **Value range**: N/A
author	**UserVO** object	**Definition**: Work item creator.
custom_fields	Array of **CustomFieldV2** objects	**Definition**: Custom field of a work item.

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Parameter	Type	Description
custom_value_new	**IssueDetailCustomFieldV2** object	**Definition**: Custom field of a work item.
developer	**UserVO** object	**Definition**: Developer of a work item.
domain	**domain** object	**Definition**: Domain of a work item.
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
end_time	String	**Definition**: Estimated end time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
expected_work_hours	Double	**Definition**: Estimated completion time of a work item (unit: person-hour). **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: N/A
project	**ProjectVO** object	**Definition**: Project to which the work item belongs. **Value range**: N/A
iteration	**iteration** object	**Definition**: Sprint to which the work item belongs.
story_point	**story_point** object	**Definition**: Story point information of a work item.
module	**module** object	**Definition**: Module of a work item.

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Parameter	Type	Description
subject	String	**Definition**: Title of a work item. **Value range**: N/A
parent_issue	**parent_issue** object	**Definition**: Parent work item of a work item.
priority	**priority** object	**Definition**: Work item priority.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Current status of a work item.
release_dev	String	**Definition**: Release version of a work item. **Value range**: N/A
find_release_dev	String	**Definition**: Version where the bug was found (available only for bugs). **Value range**: N/A
env	**env** object	**Definition**: Environment where the bug was found (available only for bugs).
tracker	**tracker** object	**Definition**: Work item type.
updated_on	String	**Definition**: Last update time of a work item, in timestamp format, for example, **1754374102000**. **Value range**: N/A

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Parameter	Type	Description
closed_time	String	**Definition**: Time when a work item is closed, in timestamp format, for example, **1754374102000**. **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
accessories_list	Array of **IssueAccessoryV2** objects	**Definition**: List of work item attachments.
inner_text	String	**Definition**: Updated comments on a work item. **Value range**: N/A

Table 4-474 UserVO

Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A

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Parameter	Type	Description
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A

Table 4-475 CustomFieldV2

Parameter	Type	Description
name	String	**Definition**: Custom field. **Value range**: N/A
value	String	**Definition**: Value of a custom field. **Value range**: N/A
new_name	String	**Definition**: Name of a custom field after modification. **Value range**: N/A

Table 4-476 IssueDetailCustomFieldV2

Parameter	Type	Description
custom_field	String	**Definition**: Custom field. **Value range**: N/A

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Parameter	Type	Description
field_name	String	**Definition**: Custom field name. **Value range**: N/A
value	String	**Definition**: Values of custom properties, which are separated by commas (,). **Value range**: N/A
field_type	String	**Definition**: Custom field type. **Value range**: **textArea**: multi-line text **text**: single-line text **select**: drop-down list **number**: number **time_date**: date **checkbox**: check box **radio**: radio button
description	String	**Definition**: Description of a custom field. **Value range**: N/A

Table 4-477 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Value range**: N/A
name	String	**Definition**: Domain name. **Value range**: N/A

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Table 4-478 ProjectVO

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
project_type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-479 iteration

Parameter	Type	Description
id	Integer	**Definition**: Sprint ID of a work item. **Value range**: N/A
name	String	**Definition**: Sprint name of a work item. **Value range**: N/A

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Table 4-480 story_point

Parameter	Type	Description
id	Integer	**Definition**: Story point ID of a work item. **Value range**: N/A
name	String	**Definition**: Story point name of a work item. **Value range**: N/A

Table 4-481 module

Parameter	Type	Description
id	Integer	**Definition**: Module ID of a work item. **Value range**: N/A
name	String	**Definition**: Module name of a work item. **Value range**: N/A

Table 4-482 parent_issue

Parameter	Type	Description
id	Integer	**Definition**: Parent work item ID of a work item. **Value range**: N/A
name	String	**Definition**: Parent work item name of a work item. **Value range**: N/A

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Table 4-483 priority

Parameter	Type	Description
id	Integer	**Definition**: Priority ID of a work item. **Value range**: N/A
name	String	**Definition**: Priority name of a work item. **Value range**: **High**, **Medium**, and **Low**

Table 4-484 severity

Parameter	Type	Description
id	Integer	**Definition**: Work item severity ID. **Value range**: N/A
name	String	**Definition**: Work item severity name. **Value range**: N/A

Table 4-485 status

Parameter	Type	Description
id	Integer	**Definition**: Current status ID of a work item. **Value range**: N/A
name	String	**Definition**: Current status of a work item. **Value range**: N/A

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Table 4-486 env

Parameter	Type	Description
id	Integer	**Definition**: ID of the environment where the bug was found. **Value range**: N/A
name	String	**Definition**: Name of the environment where the bug was found. **Value range**: N/A

Table 4-487 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID of a work item. **Value range**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Work item type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-488 IssueAccessoryV2

Parameter	Type	Description
attachment_id	Integer	**Definition**: Attachment ID. **Value range**: N/A

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Parameter	Type	Description
issue_id	Integer	**Definition**: Digital ID of a work item. **Value range**: N/A
creator_num_id	Integer	**Definition**: Digital ID of the attachment uploader. **Value range**: N/A
created_date	String	**Definition**: Attachment creation time, for example, **2025-08-04 19:43:46**. **Value range**: N/A
file_name	String	**Definition**: Attachment name. **Value range**: N/A
container_type	String	**Definition**: Attachment type. **Value range**: **Scrum**
disk_file_name	String	**Definition**: Actual name of the attachment on the server. **Value range**: N/A
digest	String	**Definition**: Attachment source. **Value range**: **1** (local document uploaded for a work item) and **2** (associated document)
disk_directory	String	**Definition**: Path of the attachment on the server. **Value range**: N/A

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Parameter	Type	Description
creator_id	String	**Definition**: UUID of the attachment uploader. **Value range**: N/A

Example Requests

```
GET https://{engdpoint}/v2/issues/show?
project_uuId=d00fd603ddf64115939e7d3609d6cb05&issue_id=69792725&include=children,parent&_=175315
6521643
```

Example Responses

Status code: 200

OK (The request has succeeded).


```
{
  "result" : {
    "issue" : {
      "id" : 2884248,
      "subject" : "33333",
      "author" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : 15533,
        "assigned_nick_name" : "xxxxxx"
      },
      "created_on" : "1754307805000",
      "updated_on" : "1754378971000",
      "start_date" : "1754323200000",
      "done_ratio" : 0,
      "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User
role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </
span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight:
bold;\"> so as to </span><do something>&amp;nbsp;</p>",
      "expected_work_hours" : 0,
      "release_dev" : "",
      "project" : {
        "identifier" : "daba98e34f9348a48939b54ceb39ff5c",
        "name" : "ProjectTestCaseuDmT",
        "project_type" : "scrum",
        "id" : 6349386
      },
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "status" : {
        "name" : "New",
        "id" : 1
      },
      "priority" : {
        "name" : "Medium",
        "id" : 2
      },
      "assigned_to" : {
        "first_name" : "xxxxxx",
```


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```
      "last_name" : "xxxxxx",
      "identifier" : "xxxxxx",
      "name" : "xxxxxx",
      "id" : 15533,
      "assigned_nick_name" : "xxxxxx"
    },
    "developer" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "domain" : { },
    "module" : { },
    "story_point" : {
      "id" : 3,
      "name" : "1"
    },
    "find_release_dev" : "",
    "assigned_cc_user" : [ ],
    "accessories_list" : [ {
      "attachment_id" : 26262,
      "issue_id" : 2884248,
      "container_type" : "Issue",
      "file_name" : "ProjectManPortal-CDN-urimapping.json",
      "disk_file_name" : "8b0eb921-1737-4429-afd9-bc09b54b5621.json",
      "digest" : "1",
      "creator_num_id" : 15533,
      "created_date" : "2025-08-04 19:43:46",
      "disk_directory" : "/daba98e34f9348a48939b54ceb39ff5c/projectMan/2884248/8b0eb921-1737-4429-
afd9-bc09b54b5621.json",
      "creator_id" : "c2d89e38a64a466f8f945f595df4402d"
    } ],
    "custom_value_new" : { },
    "custom_fields" : [ ]
  }
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.36 Adding a Comment to a Work Item

Function

This API is used to add a comment to a work item.

Calling Method

For details, see **Calling APIs**.

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URI

POST /v2/issues/update-issue-notes

Request Parameters

Table 4-489 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-490 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
notes	Yes	String	**Definition**: Comment on a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
type	No	String	**Definition**: Type of the project to which the work item belongs. **Constraints**: N/A **Value range**: **Scrum** **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-491 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned information.
status	String	**Definition**: Returned status.

Table 4-492 result

Parameter	Type	Description
issue	**IssueDetailResponseV2** object	**Definition**: Whether a custom status name is duplicate. **Value range**: **true** (duplicate) **false** (not duplicate)

Table 4-493 IssueDetailResponseV2

Parameter	Type	Description
actual_work_hours	Double	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
assigned_cc_user	Array of **UserVO** objects	**Definition**: Cc recipient of the current work item.
assigned_to	**UserVO** object	**Definition**: Current owner of a work item.
start_date	String	**Definition**: Estimated start time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A

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Parameter	Type	Description
created_on	String	**Definition**: Time when a work item is created, in timestamp format, for example, **1754374102000**. **Value range**: N/A
author	**UserVO** object	**Definition**: Work item creator.
custom_fields	Array of **CustomFieldV2** objects	**Definition**: Custom field of a work item.
custom_value_new	**IssueDetailCustomFieldV2** object	**Definition**: Custom field of a work item.
developer	**UserVO** object	**Definition**: Developer of a work item.
domain	**domain** object	**Definition**: Domain of a work item.
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
end_time	String	**Definition**: Estimated end time of a work item, in timestamp format, for example, **1754323200000**. **Value range**: N/A
expected_work_hours	Double	**Definition**: Estimated completion time of a work item (unit: person-hour). **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: N/A

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Parameter	Type	Description
project	**ProjectVO** object	**Definition**: Project to which the work item belongs. **Value range**: N/A
iteration	**iteration** object	**Definition**: Sprint to which the work item belongs.
story_point	**story_point** object	**Definition**: Story point information of a work item.
module	**module** object	**Definition**: Module of a work item.
subject	String	**Definition**: Title of a work item. **Value range**: N/A
parent_issue	**parent_issue** object	**Definition**: Parent work item of a work item.
priority	**priority** object	**Definition**: Work item priority.
severity	**severity** object	**Definition**: Work item severity.
status	**status** object	**Definition**: Current status of a work item.
release_dev	String	**Definition**: Release version of a work item. **Value range**: N/A
find_release_dev	String	**Definition**: Version where the bug was found (available only for bugs). **Value range**: N/A
env	**env** object	**Definition**: Environment where the bug was found (available only for bugs).

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Parameter	Type	Description
tracker	**tracker** object	**Definition**: Work item type.
updated_on	String	**Definition**: Last update time of a work item, in timestamp format, for example, **1754374102000**. **Value range**: N/A
closed_time	String	**Definition**: Time when a work item is closed, in timestamp format, for example, **1754374102000**. **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
accessories_list	Array of **IssueAccessoryV2** objects	**Definition**: List of work item attachments.
inner_text	String	**Definition**: Updated comments on a work item. **Value range**: N/A

Table 4-494 UserVO

Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A

Table 4-495 CustomFieldV2

Parameter	Type	Description
name	String	**Definition**: Custom field. **Value range**: N/A
value	String	**Definition**: Value of a custom field. **Value range**: N/A
new_name	String	**Definition**: Name of a custom field after modification. **Value range**: N/A

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Table 4-496 IssueDetailCustomFieldV2

Parameter	Type	Description
custom_field	String	**Definition**: Custom field. **Value range**: N/A
field_name	String	**Definition**: Custom field name. **Value range**: N/A
value	String	**Definition**: Values of custom properties, which are separated by commas (,). **Value range**: N/A
field_type	String	**Definition**: Custom field type. **Value range**: **textArea**: multi-line text **text**: single-line text **select**: drop-down list **number**: number **time_date**: date **checkbox**: check box **radio**: radio button
description	String	**Definition**: Description of a custom field. **Value range**: N/A

Table 4-497 domain

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Domain name. **Value range**: N/A

Table 4-498 ProjectVO

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
project_type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-499 iteration

Parameter	Type	Description
id	Integer	**Definition**: Sprint ID of a work item. **Value range**: N/A
name	String	**Definition**: Sprint name of a work item. **Value range**: N/A

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Table 4-500 story_point

Parameter	Type	Description
id	Integer	**Definition**: Story point ID of a work item. **Value range**: N/A
name	String	**Definition**: Story point name of a work item. **Value range**: N/A

Table 4-501 module

Parameter	Type	Description
id	Integer	**Definition**: Module ID of a work item. **Value range**: N/A
name	String	**Definition**: Module name of a work item. **Value range**: N/A

Table 4-502 parent_issue

Parameter	Type	Description
id	Integer	**Definition**: Parent work item ID of a work item. **Value range**: N/A
name	String	**Definition**: Parent work item name of a work item. **Value range**: N/A

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Table 4-503 priority

Parameter	Type	Description
id	Integer	**Definition**: Priority ID of a work item. **Value range**: N/A
name	String	**Definition**: Priority name of a work item. **Value range**: **High**, **Medium**, and **Low**

Table 4-504 severity

Parameter	Type	Description
id	Integer	**Definition**: Work item severity ID. **Value range**: N/A
name	String	**Definition**: Work item severity name. **Value range**: N/A

Table 4-505 status

Parameter	Type	Description
id	Integer	**Definition**: Current status ID of a work item. **Value range**: N/A
name	String	**Definition**: Current status of a work item. **Value range**: N/A

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Table 4-506 env

Parameter	Type	Description
id	Integer	**Definition**: ID of the environment where the bug was found. **Value range**: N/A
name	String	**Definition**: Name of the environment where the bug was found. **Value range**: N/A

Table 4-507 tracker

Parameter	Type	Description
id	Integer	**Definition**: Type ID of a work item. **Value range**: **2**, **3**, **5**, **6**, and **7**
name	String	**Definition**: Work item type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

Table 4-508 IssueAccessoryV2

Parameter	Type	Description
attachment_id	Integer	**Definition**: Attachment ID. **Value range**: N/A

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Parameter	Type	Description
issue_id	Integer	**Definition**: Digital ID of a work item. **Value range**: N/A
creator_num_id	Integer	**Definition**: Digital ID of the attachment uploader. **Value range**: N/A
created_date	String	**Definition**: Attachment creation time, for example, **2025-08-04 19:43:46**. **Value range**: N/A
file_name	String	**Definition**: Attachment name. **Value range**: N/A
container_type	String	**Definition**: Attachment type. **Value range**: **Scrum**
disk_file_name	String	**Definition**: Actual name of the attachment on the server. **Value range**: N/A
digest	String	**Definition**: Attachment source. **Value range**: **1** (local document uploaded for a work item) and **2** (associated document)
disk_directory	String	**Definition**: Path of the attachment on the server. **Value range**: N/A

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Parameter	Type	Description
creator_id	String	**Definition**: UUID of the attachment uploader. **Value range**: N/A

Example Requests

```
POST http://{endpoint}/v2/issues/update-issue-notes

{
  "id" : 9206017,
  "notes" : "TEST",
  "project_uuid" : "a8ac165097ff4e42bcfb234dd27d30a6",
  "type" : "scrum"
}
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : {
    "issue" : {
      "id" : 2884419,
      "subject" : "TEST",
      "author" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : 1111,
        "assigned_nick_name" : "xxxxxx"
      },
      "created_on" : "1754463933000",
      "updated_on" : "1754463933000",
      "done_ratio" : 0,
      "description" : "<p><strong>TEST</strong></p>",
      "expected_work_hours" : 0,
      "actual_work_hours" : 0,
      "release_dev" : "",
      "project" : {
        "identifier" : "310eed4d6160446cb294a8bacfd46e7e",
        "name" : "APIFunction202507Cukr9K",
        "id" : 6345282
      },
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "status" : {
        "name" : "New",
        "id" : 1
      },
      "assigned_to" : {
        "first_name" : "xxxxxx",
        "last_name" : "xxxxxx",
        "identifier" : "xxxxxx",
        "name" : "xxxxxx",
```

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```
      "id" : 1111,
      "assigned_nick_name" : "xxxxxx"
    },
    "developer" : { },
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "module" : { },
    "story_point" : {
      "id" : 3,
      "name" : "1"
    },
    "assigned_cc_user" : [ ],
    "inner_text" : "TEST1"
  }
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.37 Favoriting a Work Item

Function

This API is used to favorite a work item.

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/issues/watch

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Request Parameters

Table 4-509 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-510 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition**: Type of the current project. **Constraints**: N/A **Value range**: SCRUM **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-511 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of favoriting a work item.
status	String	**Definition**: Status of the current request. **Value range**: **success**: successful **error**: failed

Table 4-512 result

Parameter	Type	Description
watcher	**watcher** object	**Definition**: Structure of a favorited work item.

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Table 4-513 watcher

Parameter	Type	Description
id	Integer	**Definition**: Unique ID of the current favoriting record. **Value range**: N/A
watchable_type	String	**Definition**: Type of a favorited work item. **Value range**: **Issue** (favorited work item) **project** (favorited project)
watchable_id	Integer	**Definition**: ID of the favorited work item or project. **Value range**: N/A
user_id	Integer	**Definition**: User ID of a favoriter. **Value range**: N/A
region	String	**Definition**: Region where the current project is located. **Value range**: N/A

Example Requests

```
{endpoint}/v2/issues/watch?_=1754368218398

{
  "issue_id" : 9192160,
  "type" : "scrum"
}
```

Example Responses

Status code: 200

Response body of the current request.

```
{
  "result" : {
    "watcher" : {
```

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```
    "id" : 226991,
    "watchable_type" : "Issue",
    "watchable_id" : 9192160,
    "user_id" : 4091,
    "region" : "example"
  }
 },
 "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body of the current request.

Error Codes

See **Error Codes**.

4.6.38 Querying Custom Field Values

Function

This API is used to query custom field values.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/custom-field/query-custom-field

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Table 4-514 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
tracker_id	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-515 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Response result of querying the value of a custom field.
status	String	**Definition**: Status of the response body for querying custom fields. **Value range**: **success**: successful **error**: failed

Table 4-516 result

Parameter	Type	Description
custom_field	Array of **custom_field** objects	**Definition**: List of custom fields.

Table 4-517 custom_field

Parameter	Type	Description
tracker_list	Array of strings	**Definition**: List of custom fields. **Value range**: N/A
region	String	**Definition**: Region of the project. **Value range**: N/A
id	Integer	**Definition**: Unique ID of a custom field. **Value range**: N/A

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Parameter	Type	Description
project_id	Integer	**Definition**: ID of the project to which the custom field belongs. **Value range**: N/A
tracker_id	Integer	**Definition**: Type ID of the work item to which a custom field belongs. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
custom_field	String	**Definition**: Name of a custom field. **Value range**: N/A
type	String	**Definition**: Custom field type. **Value range**: N/A
name	String	**Definition**: Display name of a custom field. **Value range**: N/A
sort	Integer	**Definition**: Sequence number of a field, which is used to determine the field display sequence on the GUI. **Value range**: N/A
memo	String	**Definition**: Additional information about a custom field. **Value range**: N/A

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Parameter	Type	Description
created	String	**Definition**: Time when a custom field is created. Format: YYYY-MM-DD HH:mm:ss (Example: **2025-07-28 14:47:38**) **Value range**: N/A
modified	String	**Definition**: Time when a custom field is modified. Format: YYYY-MM-DD HH:mm:ss (DateTime format: **2025-07-28 14:47:38**) **Value range**: N/A
is_delete	Boolean	**Definition**: Whether a customized field is deleted. **Value range**: **true**: deleted **false**: not deleted

Example Requests

```
{endpoint}/v2/custom-field/query-custom-field?
project_id=5192de5eb435430c8cd41c6ae6028848&tracker_id=3
```

Example Responses

None

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.39 Checking Whether the Module Name Is Duplicate

Function

This API is used to check whether the module name is duplicate.

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Calling Method

For details, see **Calling APIs**.

URI

GET /v2/module/module-name-validation

Table 4-518 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
module_name	No	String	**Definition**: Module name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-519 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-520 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result object.
status	String	**Definition**: Returned status of a project. **Value range**: **success**: successful **error**: failed

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Table 4-521 result

Parameter	Type	Description
exist	Boolean	**Definition**: Whether the current module name exists. **Value range**: **true** and **false** **true**: The module name exists. **false**: The module name does not exist.

Example Requests

```
GET http://{endpoint}/v2/module/module-name-validation?module_name=%E9%98%BF
%E8%90%A8%E8%BE%BE
%E6%98%AF&project_id=5192de5eb435430c8cd41c6ae6028848&_=1753684289029
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : {
    "exist" : true
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.40 Adding a Custom Work Item Module

Function

This API is used to add a custom work item module.

Calling Method

For details, see **Calling APIs**.

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URI

POST /v2/module/modules

Request Parameters

Table 4-522 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-523 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Description field that provides more details about the project or task. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Name of a work item module. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
owner	No	String	**Definition**: Digital ID of the module owner, which is obtained by calling the **Obtaining the Member List of a Specified Project** API. The value of **user_num_id** in the response message body is the ID of the module owner. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
parent_num_id	No	String	**Definition**: Unique ID of a parent task. The value is obtained by calling the **Querying the Module Settings** API. The value of **id** in **modules** in the response message body is the module ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-524 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Result status. **Value range**: N/A

Table 4-525 result

Parameter	Type	Description
module	**module** object	**Definition**: Detailed information about a module.

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Table 4-526 module

Parameter	Type	Description
description	String	**Definition**: Module description. **Value range**: N/A
id	Integer	**Definition**: Module ID. **Value range**: N/A
name	String	**Definition**: Module name. **Value range**: N/A
owner	**owner** object	**Definition**: Module owner.
project	**project** object	**Definition**: Project information.
path	String	**Definition**: Path of a module. **Value range**: N/A
path_name	String	**Definition**: Name of a module path. **Value range**: N/A

Table 4-527 owner

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of the owner. **Value range**: N/A
name	String	**Definition**: Username of the owner. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: Owner ID. **Value range**: N/A
nick_name	String	**Definition**: Owner alias. **Value range**: N/A

Table 4-528 project

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
identifier	String	**Definition**: Unique ID of a project. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: N/A

Example Requests

```
POST http://{endpoint}/v2/module/modules?_=1753684289689

{
  "description" : "",
  "name" : "Asada",
  "owner" : "4091",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "parent_num_id" : ""
}
```

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Example Responses

Status code: 200

OK (The request has succeeded).


```
{
  "result" : {
    "module" : {
      "description" : "",
      "id" : 886637,
      "name" : "Asada",
      "owner" : {
        "id" : 4091,
        "name" : "devcloud_devcloud_s00404480_01",
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "nick_name" : "Sam 1"
      },
      "project" : {
        "id" : 35138974,
        "identifier" : "5192de5eb435430c8cd41c6ae6028848",
        "name" : "DevOps Full-Process Sample Project XXXX",
        "type" : "scrum"
      },
      "path" : "886637",
      "path_name" : "Asada"
    }
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.41 Querying Module Settings

Function

This API is used to query module settings.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/module/modules

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Table 4-529 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
search	No	String	**Definition**: Query index set for the module. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-530 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-531 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: returned result.
status	String	**Definition**: Returned status. **Value range**: N/A

Table 4-532 result

Parameter	Type	Description
total_count	Integer	**Definition**: Number of modules. **Value range:** N/A

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Parameter	Type	Description
modules	Array of **modules** objects	**Definition**: Modules.

Table 4-533 modules

Parameter	Type	Description
id	Integer	**Definition**: Module ID in module management. **Value range**: N/A
name	String	**Definition**: Name of a module in module management. **Value range**: N/A
owner	Object	**Definition**: Module owner. **Value range**: N/A
description	String	**Definition**: Module description. **Value range**: N/A
project	**project** object	**Definition**: Current project information.
deepth	Integer	**Definition**: Parent-child relationship of a module. **Value range**: N/A
path	String	**Definition**: Path of a module. **Value range**: N/A

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Parameter	Type	Description
path_name	String	**Definition**: Path name of a module. **Value range**: N/A
is_match	Boolean	**Definition**: Check whether the module information is found. **Value range**: **true** (found) **false** (not found)
child	Array of strings	**Definition**: Sub-module list of a module. **Value range**: N/A
is_parent	Boolean	**Definition**: Whether there is a sub-module. **Value range**: **0** (no sub-modules) **1** (with sub-modules)

Table 4-534 project

Parameter	Type	Description
id	Integer	**Definition**: ID of the current project. **Value range**: N/A

Example Requests

```
{endpoint}/v2/module/modules?
project_id=5192de5eb435430c8cd41c6ae6028848&limit=1&offset=10&search=&_=1753185098033
```

Example Responses

Status code: 200

The query module interface setup response was successful.

```
{
  "result" : {
```

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```
 "total_count" : 5,
 "modules" : [ {
  "id" : 885859,
  "name" : "Promotion management",
  "owner" : {
   "id" : 4091,
   "name" : "devcloud_devcloud_s00404480_01",
   "identifier" : "a360371833bf4c558f796fd707b44daf",
   "nick_name" : "Sam 1"
  },
  "description" : "Promotion management",
  "project" : {
   "id" : 35138974
  },
  "deepth" : 1,
  "path" : "885859",
  "path_name" : "Promotion management",
  "is_match" : true,
  "child" : [ ],
  "is_parent" : false
 }, {
  "id" : 885858,
  "name" : "Accessory management",
  "owner" : {
   "id" : 4091,
   "name" : "devcloud_devcloud_s00404480_01",
   "identifier" : "a360371833bf4c558f796fd707b44daf",
   "nick_name" : "Sam 1"
  },
  "description" : "Accessory management",
  "project" : {
   "id" : 35138974
  },
  "deepth" : 1,
  "path" : "885858",
  "path_name" : "Accessory management",
  "is_match" : true,
  "child" : [ ],
  "is_parent" : false
 }, {
  "id" : 885857,
  "name" : "Order management",
  "owner" : {
   "id" : 4091,
   "name" : "devcloud_devcloud_s00404480_01",
   "identifier" : "a360371833bf4c558f796fd707b44daf",
   "nick_name" : "Sam 1"
  },
  "description" : "Order management",
  "project" : {
   "id" : 35138974
  },
  "deepth" : 1,
  "path" : "885857",
  "path_name" : "Order management",
  "is_match" : true,
  "child" : [ ],
  "is_parent" : false
 }, {
  "id" : 885856,
  "name" : "Membership management",
  "owner" : {
   "id" : 4091,
   "name" : "devcloud_devcloud_s00404480_01",
   "identifier" : "a360371833bf4c558f796fd707b44daf",
   "nick_name" : "Sam 1"
  },
  "description" : "Membership management",
  "project" : {
```


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```
      "id" : 35138974
    },
    "deepth" : 1,
    "path" : "885856",
    "path_name" : "Membership management",
    "is_match" : true,
    "child" : [ ],
    "is_parent" : false
  }, {
    "id" : 885855,
    "name" : "Store network",
    "owner" : {
      "id" : 4091,
      "name" : "devcloud_devcloud_s00404480_01",
      "identifier" : "a360371833bf4c558f796fd707b44daf",
      "nick_name" : "Sam 1"
    },
    "description" : "Store network",
    "project" : {
      "id" : 35138974
    },
    "deepth" : 1,
    "path" : "885855",
    "path_name" : "Store network",
    "is_match" : true,
    "child" : [ ],
    "is_parent" : false
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	The query module interface setup response was successful.

Error Codes

See **Error Codes**.

4.6.42 Checking Whether a Template Can Be Saved

Function

This API is used to check whether a template can be saved.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/project-template/name-validation

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Table 4-535 Query Parameters

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Template name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

Table 4-536 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-537 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: N/A

Table 4-538 result

Parameter	Type	Description
exist	Boolean	**Definition**: Whether the current module name exists. **Value range**: N/A

Example Requests

Saving as a template

```
{endpoint}/v2/project-template/name-validation?name=1234&_=1753237057613
```

Example Responses

Status code: 200

Verify whether the template can successfully save the response from the interface.

```
{
  "result" : {
    "exist" : false
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Verify whether the template can successfully save the response from the interface.

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Error Codes

See **Error Codes**.

4.6.43 Saving a Project Template

Function

This API is used to save a project template.

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/project-template/template

Request Parameters

Table 4-539 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-540 Request body parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
name	No	String	**Definition**: Template name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
is_public	No	Integer	**Definition**: Whether to set the template as default. **Constraints**: N/A **Value range**: **0** (no) **1** (yes) **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-541 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: N/A

Table 4-542 result

Parameter	Type	Description
id	Integer	**Definition**: Template ID. **Value range**: N/A
name	String	**Definition**: Template name. **Value range**: N/A
type	String	**Definition**: Template type **Value range**: **Scrum**

Example Requests

Creating a template named **234548**

```
{endpoint}/v2/project-template/template?_=1753238263835

{
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "name" : "234548",
  "is_public" : 1
}
```

Example Responses

Status code: 200

The response for successfully saving the project template interface.

```
{
  "result" : {
```

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```
    "id" : 384846,
    "name" : "234548",
    "type" : "scrum"
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	The response for successfully saving the project template interface.

Error Codes

See **Error Codes**.

4.6.44 Deleting Work Items in Batches (V2)

Function

This API is used to delete work items in batches.

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/workitem/batch-delete

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Request Parameters

Table 4-543 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-544 Request body parameters

Parameter	Mandatory	Type	Description
-	No	String	Request body for deleting work items in batches.
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_ids	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-545 Response body parameters

Parameter	Type	Description
-	String	Response body for deleting work items in batches.
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: The deletion is successful. **error**: The deletion failed.

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Table 4-546 result

Parameter	Type	Description
delete_issue	**delete_issue** object	**Definition**: Deleted work item. **Value range**: N/A

Table 4-547 delete_issue

Parameter	Type	Description
del_issue_id	Array of integers	**Definition**: ID of the work item to be deleted. **Value range**: N/A
del_issue	Array of **del_issue** objects	**Definition**: Details about the deleted work item. **Value range**: N/A

Table 4-548 del_issue

Parameter	Type	Description
id	Integer	**Definition**: Work item ID. **Value range**: N/A
tracker_id	Integer	**Definition**: Work item type. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

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Parameter	Type	Description
subject	String	**Definition**: Work item name. **Value range**: N/A
status_id	Integer	**Definition**: Work item status ID. **Value range**: N/A
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads (unit: person-hour). **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads (unit: person-hour). **Value range**: N/A
deleted	Boolean	**Definition**: Whether the deletion is complete. **Value range**: **0** (not deleted) **1** (deleted)
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **0** (not archived) **1** (archived)

Example Requests

Request information

```
{endpoint}/v2/workitem/batch-delete?_=1753261560409

{
```

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```
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "issue_ids" : "9190894,9179013"
}
```

Example Responses

Status code: 200

Returned information.

```
{
    "result": {
        "delete_issue": {
            "del_issue_id": [
                9190894
            ],
            "del_issue": [
                {
                    "id": 9190894,
                    "tracker_id": 7,
                    "subject": "123",
                    "status_id": 1,
                    "done_ratio": 0,
                    "expected_work_hours": 0.0,
                    "actual_work_hours": 0.0,
                    "deleted": false,
                    "is_archived": false
                }
            ]
        },
    },
    "status": "success"
}
```

Status Codes

Status Code	Description
200	Returned information.

Error Codes

See **Error Codes**.

4.6.45 List Display

Function

This API is used to display lists.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/workitem/issue-list

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Request Parameters

Table 4-549 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-550 Request body parameters

Parameter	Mandatory	Type	Description
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
tracker_id	No	String	**Definition**: Work item type. **Constraints**: The options include **2**, **3**, **5**, **6**, and **7**. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-551 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-552 result

Parameter	Type	Description
total_count	Integer	**Definition**: Number of work items. **Value range**: N/A
issues	Array of **Issue** objects	**Definition**: Work item. **Value range**: N/A

Table 4-553 Issue

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A

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Parameter	Type	Description
subject	String	**Definition**: Owner of a work item. **Value range**: N/A
project	**Project** object	**Definition**: Project. **Value range**: N/A
is_parent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A
findReleaseDev	String	**Definition**: Publisher. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A

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Parameter	Type	Description
assigned_to	**IssueAssignedVO** object	**Definition**: Work item owner. **Value range**: N/A
status_attribute	Object	**Definition**: Work item status. **Value range**: N/A
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Work item release version number. **Value range**: N/A
author	**IssueAuthorVO** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A

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Parameter	Type	Description
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: favorited. **false**: not favorited.
deleted	Boolean	**Definition**: Whether to delete. **Value range**: **true**: delete **false**: not delete
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **true**: yes **false**: no.
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A

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Parameter	Type	Description
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0** (enabled) **1** (disabled)
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

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Table 4-554 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

Table 4-555 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

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Table 4-556 Tracker

Parameter	Type	Description
name	String	**Definition**: Type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
id	Integer	**Definition**: Type ID. **Value range**: **2**, **3**, **5**, **6**, and **7**

Table 4-557 IssueAssignedVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A

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Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-558 Severity

Parameter	Type	Description
name	String	**Definition**: Work item severity. **Value range**: **10**: critical **11**: major **12**: minor **13**: trivial
id	Integer	**Definition**: Severity ID. **Value range**: **10**, **11**, **12**, and **13**

Table 4-559 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A

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Parameter	Type	Description
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-560 Priority

Parameter	Type	Description
name	String	**Definition**: Work item priority. **Value range**: **1**: low **2**: medium **3**: high

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Parameter	Type	Description
id	Integer	**Definition**: Priority ID. **Value range**: **1**, **2**, and **3**

Table 4-561 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**, **2**, **3**, **4**, **5**, and **6**

Example Requests

```
{endpoint}/v3/workitem/issue-list?_=1753241438364

{
  "page_no" : "1",
  "page_size" : "15",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "tracker_id" : "7,2,3"
}
```

Example Responses

Status code: 200

Response parameters

```
{
  "result" : {
    "total_count" : 64,
    "issues" : [ {
      "updated_on" : "1753686505000",
      "story_point" : {
        "id" : 3,
```

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```
    "name" : "1"
  },
  "subject" : "12111",
  "project" : {
    "identifier" : "5192de5eb435430c8cd41c6ae6028848",
    "name" : "DevOps Full-Process Sample Project XXXX",
    "id" : 35138974
  },
  "is_parent" : true,
  "done_ratio" : 0,
  "find_release_dev" : "",
  "tracker" : {
    "name" : "Story",
    "id" : 7
  },
  "id" : 9185630,
  "start_date" : "1753660800000",
  "assigned_to" : {
    "assigned_nick_name" : "Sam 1",
    "name" : "devcloud_devcloud_s00404480_01",
    "last_name" : "devcloud_devcloud_s00404480_01",
    "id" : 4091,
    "image_id" : "photo01.png",
    "first_name" : "devcloud_devcloud_s00404480_01"
  },
  "status_attribute" : { },
  "severity" : {
    "name" : "Minor",
    "id" : 12
  },
  "author" : {
    "name" : "devcloud_devcloud_s00404480_01",
    "last_name" : "devcloud_devcloud_s00404480_01",
    "id" : 4091,
    "image_id" : "photo01.png",
    "first_name" : "devcloud_devcloud_s00404480_01"
  },
  "module" : { },
  "due_date" : "1753747200000",
  "expected_work_hours" : 0,
  "priority" : {
    "name" : "Medium",
    "id" : 2
  },
  "actual_work_hours" : 1,
  "is_watcher" : false,
  "deleted" : false,
  "fixed_version" : { },
  "is_archived" : false,
  "created_on" : "1753410626000",
  "domain" : { },
  "developer" : { },
  "closeder" : { },
  "position" : "9185630.0000000000",
  "closed_flag" : 0,
  "assigned_cc_user" : [ ],
  "custom_value_new" : { },
  "status" : {
    "name" : "New",
    "id" : 1
  }
}, {
  "updated_on" : "1753325447000",
  "subject" : "User management - Cannot set membership level",
  "project" : {
    "identifier" : "5192de5eb435430c8cd41c6ae6028848",
    "name" : "DevOps Full-Process Sample Project XXXX",
    "id" : 35138974
  },
```


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```
    "is_parent" : false,
    "done_ratio" : 0,
    "find_release_dev" : "",
    "tracker" : {
      "name" : "Bug",
      "id" : 3
    },
    "id" : 9184263,
    "assigned_to" : {
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "author" : {
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "module" : { },
    "expected_work_hours" : 0,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1753084464000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "position" : "9179047.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "custom_value_new" : { },
    "status" : {
      "name" : "New",
      "id" : 1
    }
   } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response parameters

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Error Codes

See **Error Codes**.

4.6.46 Batch Editing Work Items (V2)

Function

This API is used to edit work items in batches.

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/workitem/issues

Request Parameters

Table 4-562 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-563 Request body parameters

Parameter	Mandatory	Type	Description
assigned_to_id	No	String	**Definition**: Digital ID of the module owner, which is obtained by calling the **Obtaining the Member List of a Specified Project** API. The value of **user_num_id** in the response message body is the ID of the module owner. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
issue_ids	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-564 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-565 result

Parameter	Type	Description
project	**project** object	**Definition**: Project. **Value range**: N/A
journal_ids	Array of strings	**Definition**: Historical record ID. **Value range**: N/A
error_issues	Array of integers	**Definition**: Work items that fail to be edited. **Value range**: N/A
versions_issues	Array of strings	**Definition**: Sprint version of a work item. **Value range**: N/A
success_issues	Array of strings	**Definition**: Work items that are successfully edited. **Value range**: N/A

Table 4-566 project

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
identifier	String	**Definition**: Project UUID. **Value range**: N/A

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Parameter	Type	Description
total	Integer	**Definition**: Total number of work items that are edited in batches. **Value range**: N/A
close	Integer	**Definition**: Whether the project is closed. **Value range**: **0**: (not closed) **1**: (closed)
role	Integer	**Definition**: Number of work items that are edited in batches. **Value range**: N/A
type	String	**Definition**: Work item type. **Value range**: **Scrum**
archive	Boolean	**Definition**: Whether a work item is archived. **Value range**: **true** (archived) **false** (not archived)
mem_count	Integer	**Definition**: Number of projects. **Value range**: N/A

Example Requests

```
{endpoint}/v2/workitem/issues

{
  "assigned_to_id" : "4091",
  "issue_ids" : "9191020",
  "project_id" : "5192de5eb435430c8cd41c6ae6028848"
}
```

Example Responses

Status code: 200

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Response to the success response of the interface for editing work items in batches.


```
{
  "result" : {
    "project" : {
      "id" : 35138974,
      "identifier" : "5192de5eb435430c8cd41c6ae6028848",
      "total" : 0,
      "close" : 0,
      "role" : 0,
      "type" : "scrum",
      "archive" : true,
      "mem_count" : 0
    },
    "journal_ids" : [ ],
    "error_issues" : [ 9191020 ],
    "versions_issues" : [ ],
    "success_issues" : [ ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to the success response of the interface for editing work items in batches.

Error Codes

See **Error Codes**.

4.6.47 Querying Associated Work Items (V2)

Function

This API is used to query associated work item information (V2).

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issues/inquire-associate

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Table 4-567 Query Parameters

Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Request Parameters

Table 4-568 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-569 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success** and **error**

Table 4-570 result

Parameter	Type	Description
associateIssues	**AssociateIssues** object	**Definition**: Associated project sub-object.

Table 4-571 AssociateIssues

Parameter	Type	Description
issues	Array of **IssuesAssociate** objects	**Definition**: Associated child work item information.
total_count	Integer	**Definition**: Total number of associated work items. **Value range**: N/A

Table 4-572 IssuesAssociate

Parameter	Type	Description
identifier	String	**Definition**: UUID of the project to which the associated work item belongs. **Value range**: N/A

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Parameter	Type	Description
project_type	String	**Definition**: Project type. **Value range**: **Scrum**
new_status_name	String	**Definition**: New status name of the associated work item, for example, **New**. **Value range**: N/A
status_attribute_name	String	**Definition**: Status type of the associated work item. **Value range**: **To Do**, **Doing**, and **Done**.
subject	String	**Definition**: Title of the associated work item. **Value range**: N/A
status_name	String	**Definition**: Status name of the associated work item. **Value range**: N/A
project_name	String	**Definition**: Name of the project to which the associated work item belongs. **Value range**: N/A
status_id	Integer	**Definition**: Status ID of the associated work item. **Value range**: N/A
id	Integer	**Definition**: ID of the associated work item. **Value range**: N/A

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Parameter	Type	Description
assigned_to	AssignedAssociate object	**Definition**: Current owner of the associated work item.

Table 4-573 AssignedAssociate

Parameter	Type	Description
assigned_user_num_id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information. **Value range**: N/A
last_name	String	**Definition**: Username. **Value range**: N/A
assigned_user_id	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Example Requests

```
GET http://{endpoint}/v2/issues/inquire-associate??
project_id=c15cc54e338d4506afd9bd8103071ff0&issue_id=9132318&page_no=1&page_size=10
```

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Example Responses

Status code: 200

Successful response for querying associated work item information interface.


```
{
  "result" : {
    "associateIssues" : {
      "total_count" : 2,
      "issues" : [ {
        "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
        "project_type" : "scrum",
        "new_status_name" : "New",
        "status_attribute_name" : "To Do",
        "subject" : "5555",
        "status_name" : "New",
        "project_name" : "Scrum0610ceshi",
        "status_id" : 1,
        "id" : 9184456,
        "assigned_to" : {
          "first_name" : "xxxxxx",
          "assigned_user_num_id" : 1111,
          "assigned_nick_name" : "xxxxxx",
          "name" : "xxxxxx",
          "last_name" : "xxxxxx",
          "assigned_user_id" : "xxxxxx"
        }
      }, {
        "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
        "project_type" : "scrum",
        "new_status_name" : "New",
        "status_attribute_name" : "To Do",
        "subject" : "Test",
        "status_name" : "New",
        "project_name" : "Scrum0610ceshi",
        "status_id" : 1,
        "id" : 9178848,
        "assigned_to" : {
          "first_name" : "xxxxxx",
          "assigned_user_num_id" : 1111,
          "assigned_nick_name" : "xxxxxx",
          "name" : "xxxxxx",
          "last_name" : "xxxxxx",
          "assigned_user_id" : "xxxxxx"
        }
      } ]
    }
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Successful response for querying associated work item information interface.

Error Codes

See **Error Codes**.

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4.6.48 Deleting a Work Item

Function

This API is used to delete a work item.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/issue/delete

Request Parameters

Table 4-574 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-575 Request body parameters

Parameter	Mandatory	Type	Description
call_back_param	No	**call_back_param** object	**Definition**: Request parameter for deleting a work item. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
type	No	String	**Definition**: Work item operation type. **Constraints**: N/A **Value range**: **deleteIssue** **Default value**: **deleteIssue**

Table 4-576 call_back_param

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_id	No	String	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
type	No	String	**Definition**: Project type. **Constraints**: N/A **Value range**: **Scrum** **Default value**: **Scrum**

Response Parameters

Status code: 200

Table 4-577 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A

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Parameter	Type	Description
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-578 result

Parameter	Type	Description
deleted_issues	Array of **deleted_issues** objects	**Definition**: Deleted work item. **Value range**: N/A
delete_attachment_files	Array of strings	**Definition**: Deleted attachment. **Value range**: N/A
issues	Array of **issues** objects	**Definition**: Work item. **Value range**: N/A

Table 4-579 deleted_issues

Parameter	Type	Description
id	Integer	**Definition**: ID of the work item to be deleted. **Value range**: N/A
subject	String	**Definition**: Name of the work item to be deleted. **Value range**: N/A

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Parameter	Type	Description
author	IssueAuthorVO object	**Definition**: User. **Value range**: N/A
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
updated_on	String	**Definition**: Work item update time, in timestamp format, for example, **1839340800000**. **Value range**: N/A **Value range**: N/A
description	String	**Definition**: Work item description. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Whether to subscribe to information. **Value range**: **true** (subscribe) **false** (not subscribe)

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Parameter	Type	Description
project	**Project** object	**Definition**: Project. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A
status_attribute	**StatusAttribute** object	**Definition**: Status attribute. **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
assigned_to	**IssueAssignedVO** object	**Definition**: Project owner. **Value range**: N/A
developer	Object	**Definition**: Developer. **Value range**: N/A
closeder	Object	**Definition**: Project closure personnel. **Value range**: N/A
fixed_version	Object	**Definition**: Fixed version. **Value range**: N/A

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Parameter	Type	Description
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
order	**Order** object	**Definition**: Sorting of work items. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
release_dev	String	**Definition**: Work item release version. **Value range**: N/A
find_release_dev	String	**Definition**: Releaser. **Value range**: N/A
assigned_cc_user	Array of strings	**Definition**: Cc recipient. **Value range**: N/A

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Parameter	Type	Description
has_httachments	Boolean	**Definition**: Whether there is an attachment. **Value range**: **true** (with attachments) **false** (no attachments)

Table 4-580 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: User ID. **Value range**: N/A

Table 4-581 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-582 Tracker

Parameter	Type	Description
name	String	**Definition**: Type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)

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Parameter	Type	Description
id	Integer	**Definition**: Type ID. **Value range**: **2**, **3**, **5**, **6**, and **7**

Table 4-583 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**, **2**, **3**, **4**, **5**, and **6**

Table 4-584 StatusAttribute

Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project. **Value range**: N/A
name	String	**Definition**: Name. **Value range**: N/A

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Table 4-585 Priority

Parameter	Type	Description
name	String	**Definition**: Work item priority. **Value range**: **1**: low **2**: medium **3**: high
id	Integer	**Definition**: Priority ID. **Value range**: **1**, **2**, and **3**

Table 4-586 IssueAssignedVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A

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Parameter	Type	Description
name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-587 Severity

Parameter	Type	Description
name	String	**Definition**: Work item severity. **Value range**: **10**: critical **11**: major **12**: minor **13**: trivial
id	Integer	**Definition**: Severity ID. **Value range**: **10**, **11**, **12**, and **13**

Table 4-588 Order

Parameter	Type	Description
name	Integer	**Definition**: Sorting name. **Value range**: N/A
id	Integer	**Definition**: Order ID. **Value range**: N/A

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Table 4-589 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

Table 4-590 issues

Parameter	Type	Description
tracker_id	Integer	**Definition**: Work item type. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Value range**: N/A
id	Integer	**Definition**: Work item ID. **Value range**: N/A

Example Requests

```
{endpoint}/v3/issue/delete

{
  "call_back_param" : {
```

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```
    "project_id" : "5192de5eb435430c8cd41c6ae6028848",
    "issue_id" : "9186305",
    "type" : "scrum"
  },
  "type" : "deleteIssue"
}
```

Example Responses

Status code: 200

Successful response for deleting a work item interface.

```
{
  "result" : {
    "deleted_issues" : [ {
      "id" : 9186305,
      "subject" : "123",
      "author" : {
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "created_on" : "2025-07-25T11:46:55Z",
      "updated_on" : "2025-07-25T11:46:55Z",
      "description" : "<p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> As </span><User role></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> I want </span><to do something></p><p><br></p><p style=\"padding-top: 5.0px;\"><span style=\"font-weight: bold;\"> so as to </span><do something> </p>",
      "expected_work_hours" : 0,
      "actual_work_hours" : 0,
      "is_watcher" : false,
      "project" : {
        "identifier" : "5192de5eb435430c8cd41c6ae6028848",
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "status" : {
        "name" : "New",
        "id" : 1
      },
      "status_attribute" : {
        "name" : "To Do"
      },
      "priority" : {
        "name" : "Medium"
      },
      "assigned_to" : {
        "identifier" : "a360371833bf4c558f796fd707b44daf",
        "assigned_nick_name" : "Sam 1",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "developer" : { },
      "closeder" : { },
      "fixed_version" : { },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
      "order" : {
```

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```
      "name" : 1,
      "id" : 1
    },
    "domain" : { },
    "module" : { },
    "story_point" : {
      "id" : 3,
      "name" : "1"
    },
    "release_dev" : "",
    "find_release_dev" : "",
    "assigned_cc_user" : [ ],
    "has_httachments" : false
  } ],
  "delete_attachment_files" : [ ],
  "issues" : [ {
    "tracker_id" : 7,
    "project_id" : "5192de5eb435430c8cd41c6ae6028848",
    "id" : 9186305
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Successful response for deleting a work item interface.

Error Codes

See **Error Codes**.

4.6.49 Querying the Numbers of Work Item Metrics on the Details Page

Function

This API is used to query the numbers of work item metrics on the details page.

Calling Method

For details, see **Calling APIs**.

URI

GET /v3/workitem/scrum/index-count

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Table 4-591 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	**Definition**: Work item ID, which can be obtained from the **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: The value must contain 1 to 10 digits. **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: N/A
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-592 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-593 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-594 result

Parameter	Type	Description
related_issue_count	Integer	**Definition**: Total number of associated work items. **Value range**: N/A
related_wiki_count	Integer	**Definition**: Total number of associated wikis. **Value range**: N/A
related_test_case_count	Integer	**Definition**: Total number of associated test cases. **Value range**: N/A
related_test_plan_count	Integer	**Definition**: Total number of associated test plans. **Value range**: N/A
code_commit_count	Integer	**Definition**: Total number of code commit records. **Value range**: N/A
code_branch_count	Integer	**Definition**: Total number of code branches. **Value range**: N/A
code_mergerequest_count	Integer	**Definition**: Total number of code merge requests. **Value range**: N/A

Example Requests

```
GET https://{engdpoint}/v3/workitem/scrum/index-count?
issue_id=2884417&project_uuid=310eed4d6160446cb294a8bacfd46e7e
```

Example Responses

Status code: 200

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OK (The request has succeeded).

```
{
  "result" : {
    "related_issue_count" : 0,
    "related_wiki_count" : 0,
    "related_test_case_count" : 0,
    "related_test_plan_count" : 0,
    "code_commit_count" : 0,
    "code_branch_count" : 0,
    "code_mergerequest_count" : 0
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.50 Querying the Total Number of Work Items Using Filter Criteria in Tree Mode (V4)

Function

This API is used to query the total number of work items using filter criteria in tree mode.

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/{project_id}/scrum-issue-tree-count

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Table 4-595 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Request Parameters

Table 4-596 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-597 Request body parameters

Parameter	Mandatory	Type	Description
pageNo	No	String	Page number. The value starts from 1.
pageSize	No	String	Number of data records on each page.
projectUUId	No	String	Project ID.
tracker_id	No	String	**Definition**: Work item type. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

Response Parameters

Status code: 200

Table 4-598 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-599 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of work items in the current project. **Value range**: N/A

Example Requests

```
POST http://{endpoint}/v4/c15cc54e338d4506afd9bd8103071ff0/scrum-issue-tree-count

{
  "page_no" : "1",
  "page_size" : "15",
  "project_uuid" : "c15cc54e338d4506afd9bd8103071ff0",
  "tracker_id" : "7,2,3"
}
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : {
    "total_count" : 25
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.6.51 Querying the Work Type List (V5)

Function

This API is used to query the work type list.

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Calling Method

For details, see **Calling APIs**.

URI

GET /v5/projects/{project_uuid}/work-hours-type

Table 4-600 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Table 4-601 Query Parameters

Parameter	Mandatory	Type	Description
status	No	Integer	**Definition**: Whether the work type is valid. **Constraints**: N/A **Value range**: **0** (deleted) **1** (valid) **2** (discarded) **Default value**: N/A

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Request Parameters

Table 4-602 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-603 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

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Table 4-604 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of work types. **Value range**: N/A
list	Array of **list** objects	**Definition**: Work type list.

Table 4-605 list

Parameter	Type	Description
id	Integer	**Definition**: Primary key ID of a work type. **Value range**: N/A
project_num_id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
name	String	**Definition**: Name of a work type. **Value range**: N/A
created	String	**Definition**: Time when a work type is created. The format is yyyy-MM-dd HH:mm:ss.z, for example, **2025-08-06 10:00:51.0**. **Value range**: N/A
modified	String	**Definition**: Time when the work type is modified. The format is yyyy-MM-dd HH:mm:ss.z, for example, **2025-08-06 10:00:51.0**. **Value range**: N/A

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Parameter	Type	Description
position	Integer	**Definition**: Position of a work type in the list. **Value range**: N/A
status	Integer	**Definition**: Whether the work type is valid. **Value range**: **0** (deleted) **1** (valid) **2** (discarded)
in_use	Boolean	**Definition**: Whether the work type has been used. **Value range**: **true**: The work type has been used. **false**: The work type has not been used.

Example Requests

```
GET https://{endpoint}/v5/projects/c15cc54e338d4506afd9bd8103071ff0/work-hours-type?status=1
```

Example Responses

Status code: 200

Success response of the labor hour type list interface.

```
{
  "result" : {
    "total_count" : 2,
    "list" : [ {
      "id" : 21,
      "project_num_id" : 6345282,
      "name" : "R&D and design",
      "created" : "2025-08-06 10:00:51.0",
      "modified" : "2025-08-06 10:00:51.0",
      "position" : 1,
      "status" : 1,
      "in_use" : true
    }, {
      "id" : 22,
      "project_num_id" : 6345282,
      "name" : "Backend development",
      "created" : "2025-08-06 10:00:51.0",
      "modified" : "2025-08-06 10:00:51.0",
      "position" : 2,
      "status" : 1
    } ]
  },
  "status" : "success"
}
```

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Status Codes

Status Code	Description
200	Success response of the labor hour type list interface.

Error Codes

See **Error Codes**.

4.7 Iteration of the Scrum Project

4.7.1 Obtaining Sprints of a Specified Project

Function

This API is used to obtain sprints of a project.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/iterations

Table 4-606 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Table 4-607 Query Parameters

Parameter	Mandatory	Type	Description
updated_time_interval	No	String	**Definition**: Sprint update duration (start and end time). **Constraints**: Regular expression: ([1-9][0-9]{0,12})?(,)?([1-9][0-9]{0,12})? **Options**: N/A **Default value**: N/A
include_deleted	No	Boolean	**Definition**: Whether the deleted sprints are included. **Constraints**: **false** (not included) **true** (included) **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-608 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-609 Response body parameters

Parameter	Type	Description
iterations	Array of **iterations** objects	**Definition**: Sprint information.
total	Integer	**Definition**: Total number of sprints. **Options**: N/A

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Table 4-610 iterations

Parameter	Type	Description
begin_time	String	**Definition**: Sprint start time. **Options**: N/A
deleted	Boolean	**Definition**: Whether the sprint has been deleted. **Options**: **false**: not deleted **true**: deleted
description	String	**Definition**: Sprint description. **Options**: N/A
end_time	String	**Definition**: Sprint end time. **Options**: N/A
id	Integer	**Definition**: Sprint ID. **Options**: N/A
name	String	**Definition**: Sprint title. **Options**: N/A
status	String	**Definition**: Sprint status. **Options**: N/A
updated_time	Long	**Definition**: Sprint update time. The value is a long integer timestamp. **Options**: N/A

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Status code: 400

Table 4-611 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-612 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/iterations
```

Example Responses

Status code: 200

OK

```
{
  "total" : 3,
  "iterations" : [ {
    "description" : "description",
    "end_time" : "2019-10-17",
    "id" : 9725885,
    "name" : "Completion HTML",
    "begin_time" : "2019-10-10",
    "status" : "0",
    "updated_time" : 1640231944000,
    "deleted" : false
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

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```
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectIterationsV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectIterationsV4Request request = new ListProjectIterationsV4Request();
        request.withProjectId("{project_id}");
        try {
            ListProjectIterationsV4Response response = client.listProjectIterationsV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()
```

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```
    try:
        request = ListProjectIterationsV4Request()
        request.project_id = "{project_id}"
        response = client.list_project_iterations_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectIterationsV4Request{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectIterationsV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

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Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.2 Deleting Iterations of Projects in Batches

Function

Deleting Iterations of Projects in Batches

URI

DELETE /v4/projects/{project_id}/iterations

Table 4-613 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-614 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **10** Maximum: **32768**

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Table 4-615 Request body parameters

Parameter	Mandatory	Type	Description
iteration_ids	Yes	Array of integers	Iteration ID. Array Length: **1 - 10**

Response Parameters

Status code: 400

Table 4-616 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-617 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Delete https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iterations

{
  "iteration_ids" : [ 11302238, 11470756 ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request

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Status Code	Description
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.3 Viewing Sprint Details

Function

This API is used to view sprint details.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/iterations/{iteration_id}

Table 4-618 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	String	**Definition**: Sprint ID. You can obtain the sprint ID of a specific project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: Regular expression: \d+ **Options**: Minimum value: **0**. **Default value**: N/A

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Request Parameters

Table 4-619 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-620 Response body parameters

Parameter	Type	Description
begin_time	String	**Definition**: Sprint start time: YYYY-MM-DD. **Options**: N/A
charts	Array of **Chart** objects	**Definition**: Burndown chart.
closed_total	Integer	**Definition**: Number of closed tickets. **Options**: N/A

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Parameter	Type	Description
created_time	String	**Definition**: Sprint creation time. **Options**: N/A
end_time	String	**Definition**: Sprint end time: YYYY-MM-DD. **Options**: N/A
have_task	Boolean	**Definition**: Whether there is a task. **Options**: **true**: yes **false**: no
iteration_id	Integer	**Definition**: Sprint ID. **Options**: N/A
name	String	**Definition**: Sprint title. **Options**: N/A
opened_total	Integer	**Definition**: Number of open tickets. **Options**: N/A
progress	String	**Definition**: Work progress. **Options**: N/A
status	String	**Definition**: Sprint status. **Options**: **0**: not started **1**: ongoing **2**: ended

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Parameter	Type	Description
total	Integer	**Definition**: Total number of tickets. **Options**: N/A
updated_time	String	**Definition**: Sprint update time. **Options**: N/A

Table 4-621 Chart

Parameter	Type	Description
date	String	**Definition**: Statistics collection time. **Options**: N/A
finished_num	Integer	**Definition**: Number of completed stories. **Options**: N/A
iteration_id	Integer	**Definition**: Sprint ID. **Options**: N/A
project_num_id	Integer	**Definition**: Project ID. **Options**: N/A
remaining_num	Integer	**Definition**: Number of uncompleted stories. **Options**: N/A
total	Integer	**Definition**: Total number of stories. **Options**: N/A

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Status code: 400

Table 4-622 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-623 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/iterations/11225793
```

Example Responses

Status code: 200

OK

```
{
  "begin_time" : "2020-07-12",
  "charts" : [ {
    "date" : "2020-09-12",
    "finished_num" : 1,
    "iteration_id" : 3789,
    "project_num_id" : 36587463,
    "remaining_num" : 3,
    "total" : 4
  } ],
  "closed_total" : 1,
  "created_time" : "2020-06-30 09:10:03",
  "end_time" : "2020-07-19",
  "have_task" : false,
  "iteration_id" : 35789,
  "name" : "Sprint 1",
  "opened_total" : 3,
  "progress" : "25%",
  "total" : 4,
  "updated_time" : "2020-06-30 09:10:03",
  "status" : "0"
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ShowIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowIterationV4Request request = new ShowIterationV4Request();
        request.withIterationId({iteration_id});
        try {
            ShowIterationV4Response response = client.showIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
```

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```
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIterationV4Request()
        request.iteration_id = {iteration_id}
        response = client.show_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowIterationV4Request{}
    request.IterationId = int32({iteration_id})
    response, err := client.ShowIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.4 Creating a Scrum Project Sprint

Function

This API is used to create a Scrum project sprint.

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/{project_id}/iteration

Table 4-624 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-625 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-626 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	**Definition**: Start time: YYYY–MM–DD. **Constraints**: Regular expression: [1-9]\d{3}-(0?[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]) **Options**: The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
description	No	String	**Definition**: Sprint description. **Constraints**: This field can be left blank. **Options**: Minimum length: 0 characters. Maximum length: 500 characters. **Default value**: N/A
end_time	Yes	String	**Definition**: End time: YYYY–MM–DD. **Constraints**: Regular expression: [1-9]\d{3}-(0?[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]) **Options**: The value is a date string in the format of YYYY-MM-DD. MM is a two-digit month ranging from **01** to **12**, and DD is a two-digit date ranging from **01** to **31**. **Default value**: N/A
name	Yes	String	**Definition**: Title. **Constraints**: N/A **Options**: Minimum length: 1 character. Maximum length: 255 characters. **Default value**: N/A

Response Parameters

Status code: 201

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Table 4-627 Response body parameters

Parameter	Type	Description
id	Integer	**Definition**: Sprint ID. **Options**: N/A

Status code: 400

Table 4-628 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-629 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Post https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration

{
  "end_time" : "2018-07-05",
  "name" : "Sprint 1",
  "begin_time" : "2018-1-31",
  "description" : ""
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 7312121
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateIterationV4Request request = new CreateIterationV4Request();
        request.withProjectId("{project_id}");
        CreateIterationRequestV4 body = new CreateIterationRequestV4();
        body.withName("Sprint 1");
        body.withEndTime("2018-07-05");
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        request.withBody(body);
        try {
            CreateIterationV4Response response = client.createIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

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```
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateIterationV4Request()
        request.project_id = "{project_id}"
        request.body = CreateIterationRequestV4(
            name="Sprint 1",
            end_time="2018-07-05",
            description="",
            begin_time="2018-1-31"
        )
        response = client.create_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

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```
    request := &model.CreateIterationV4Request{}
    request.ProjectId = "{project_id}"
    descriptionCreateIterationRequestV4:= ""
    request.Body = &model.CreateIterationRequestV4{
        Name: "Sprint 1",
        EndTime: "2018-07-05",
        Description: &descriptionCreateIterationRequestV4,
        BeginTime: "2018-1-31",
    }
    response, err := client.CreateIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
201	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.5 Updating Sprints of a Scrum Project

Function

This API is used to update Scrum project sprints.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v4/projects/{project_id}/iterations/{iteration_id}

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Table 4-630 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	String	**Definition**: Sprint ID. You can obtain the sprint ID of a specific project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: Regular expression: \d+ **Options**: Minimum value: **0**. **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-631 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	**Definition**: Start time: YYYY–MM–DD. **Constraints**: Regular expression: [1-9]\d{3}-(0?[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]) **Options**: N/A **Default value**: N/A
description	No	String	**Definition**: Description. **Constraints**: Maximum: 50,000 characters. **Options**: N/A **Default value**: N/A
end_time	Yes	String	**Definition**: End time: YYYY–MM–DD. **Constraints**: Regular expression: [1-9]\d{3}-(0?[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]) **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
name	Yes	String	**Definition**: Title. **Constraints**: N/A **Options**: N/A **Default value**: N/A
over_type	No	String	**Definition**: Work item processing upon the end of a sprint. **Constraints**: Regular expression: empty|close **over_type** is required when **status** is updated to **2**. **Options**: **close** (All work items are closed.) **empty** (Work items that are not closed are placed in the block.) **Default value**: N/A
status	No	String	**Definition**: Sprint status. **Constraints**: Regular expression: 0|1|2 The status can only transition between adjacent values (0 ↔ 1 ↔ 2), and cannot skip the intermediate status. **Options**: **0**: not started **1**: ongoing **2**: ended **Default value**: N/A

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Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-632 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-633 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Put https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11225793

{
  "end_time" : "2018-07-05",
  "name" : "sttes32s3",
  "begin_time" : "2018-1-31",
  "description" : ""
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
```

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```
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateIterationV4Request request = new UpdateIterationV4Request();
        request.withProjectId("{project_id}");
        request.withIterationId({iteration_id});
        UpdateIterationRequestV4 body = new UpdateIterationRequestV4();
        body.withName("sttes32s3");
        body.withEndTime("2018-07-05");
        body.withDescription("");
        body.withBeginTime("2018-1-31");
        request.withBody(body);
        try {
            UpdateIterationV4Response response = client.updateIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)
```

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```
    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateIterationV4Request()
        request.project_id = "{project_id}"
        request.iteration_id = {iteration_id}
        request.body = UpdateIterationRequestV4(
            name="sttes32s3",
            end_time="2018-07-05",
            description="",
            begin_time="2018-1-31"
        )
        response = client.update_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateIterationV4Request{}
    request.ProjectId = "{project_id}"
    request.IterationId = int32({iteration_id})
    descriptionUpdateIterationRequestV4:= ""
    request.Body = &model.UpdateIterationRequestV4{
        Name: "sttes32s3",
        EndTime: "2018-07-05",
        Description: &descriptionUpdateIterationRequestV4,
        BeginTime: "2018-1-31",
    }
    response, err := client.UpdateIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

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```
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.6 Deleting Sprints of a Project

Function

This API is used to delete project sprints.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v4/projects/{project_id}/iterations/{iteration_id}

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Table 4-634 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	Integer	**Definition**: Sprint ID. You can obtain the sprint list of a project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: Regular expression: \d+ **Options**: Minimum value: **0**. **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 204

No Content

Status code: 400

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Table 4-635 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-636 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Delete https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11225793
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class DeleteIterationV4Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteIterationV4Request request = new DeleteIterationV4Request();
        request.withProjectId("{project_id}");
        request.withIterationId({iteration_id});
        try {
            DeleteIterationV4Response response = client.deleteIterationV4(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteIterationV4Request()
        request.project_id = "{project_id}"
        request.iteration_id = {iteration_id}
        response = client.delete_iteration_v4(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteIterationV4Request{}
    request.ProjectId = "{project_id}"
    request.IterationId = int32({iteration_id})
    response, err := client.DeleteIterationV4(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

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4.7.7 Viewing Historical Records of a Sprint

Function

This API is used to view sprint histories.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/iterations/{iteration_id}/histories

Table 4-637 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	Integer	**Definition**: Sprint ID. You can obtain the sprint list of a project using the **Obtaining the Sprint List of a Specified Project** API. **Constraints**: Regular expression: \d+ **Options**: Minimum value: **0**. **Default value**: N/A

Table 4-638 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Offset. **Constraints**: N/A **Options**: Minimum value: **0**. **Default value**: **0**

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of data records on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **100**. **Default value**: 10

Request Parameters

Table 4-639 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-640 Response body parameters

Parameter	Type	Description
histories	Array of **IterationHistory** objects	**Definition**: History records.
total	Integer	**Definition**: Total number. **Options**: N/A

Table 4-641 IterationHistory

Parameter	Type	Description
details	Array of **details** objects	**Definition**: Operation details.
iteration_id	String	**Definition**: Sprint ID. **Options**: N/A
operate	String	**Definition**: Operation type. **Options**: **Create** **Modify** **Delete**
operate_time	String	**Definition**: Operation time. **Options**: N/A
operator	**operator** object	**Definition**: Change operator.
project_id	String	**Definition**: Project ID. **Options**: N/A

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Table 4-642 details

Parameter	Type	Description
new_value	String	**Definition**: Value after operation. **Options**: N/A
old_value	String	**Definition**: Value before operation. **Options**: N/A
operate_field_name	String	**Definition**: Modified field. **Options**: N/A

Table 4-643 operator

Parameter	Type	Description
domain_id	String	**Definition**: Tenant UUID. **Options**: N/A
domain_name	String	**Definition**: Tenant name. **Options**: N/A
nick_name	String	**Definition**: Alias. **Options**: N/A
user_id	String	**Definition**: User UUID. **Options**: N/A

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Parameter	Type	Description
user_name	String	**Definition**: Username. **Options**: N/A

Status code: 400

Table 4-644 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-645 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/iterations/11225793/histories
```

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "histories" : [ {
    "iteration_id" : 123454,
    "project_id" : "19274e1adffb4cc0b866ef6dd3ad0100",
    "operator" : {
      "user_id" : "0a938608ac00f2271f2ec01cccb94c19",
      "user_name" : "Banna",
      "nick_name" : "Red Sea",
      "domain_id" : "9b33eb1d219140fea54d3b5ac689b073",
      "domain_name" : "devcloud_test"
    },
    "operate" : "NEW",
    "operate_time" : "1665473746000",
    "details" : [ {
```

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```
    "operate_field_name" : "name",
    "old_value" : null,
    "new_value" : "test"
   }, {
    "operate_field_name" : "description",
    "old_value" : null,
    "new_value" : null
   }, {
    "operate_field_name" : "end_time",
    "old_value" : null,
    "new_value" : "1664380800000"
   }, {
    "operate_field_name" : "status",
    "old_value" : null,
    "new_value" : "0"
   }, {
    "operate_field_name" : "begin_time",
    "old_value" : null,
    "new_value" : "1663776000000"
   }, {
    "operate_field_name" : "program_version_id",
    "old_value" : null,
    "new_value" : "-1"
   } ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListIterationHistoriesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListIterationHistoriesRequest request = new ListIterationHistoriesRequest();
        request.withIterationId({iteration_id});
        try {
            ListIterationHistoriesResponse response = client.listIterationHistories(request);
```

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```
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListIterationHistoriesRequest()
        request.iteration_id = {iteration_id}
        response = client.list_iteration_histories(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
```

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```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListIterationHistoriesRequest{}
    request.IterationId = int32({iteration_id})
    response, err := client.ListIterationHistories(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.7.8 Creating a Sprint (V2)

Function

This API is used to create a sprint.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/version/create-version

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Request Parameters

Table 4-646 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-647 Request body parameters

Parameter	Mandatory	Type	Description
start_date	No	Integer	**Definition**: Start date of the created sprint (in timestamp format, for example, **1754150400000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
due_date	No	Integer	**Definition**: End date of the created sprint (in timestamp format, for example, **1754150400000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
name	No	String	**Definition**: Name of the sprint to be created. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-648 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Result of creating a sprint.
status	String	**Definition**: Response status of the current sprint. **Value range**: N/A

Table 4-649 result

Parameter	Type	Description
version	**version** object	**Definition**: Version information of the created sprint.

Table 4-650 version

Parameter	Type	Description
id	Integer	**Definition**: Unique ID of the created sprint. **Value range**: N/A
project_num_id	Integer	**Definition**: Unique ID of the project associated with the current sprint. **Value range**: N/A
project_id	String	**Definition**: Unique ID of the project to which the current sprint belongs. **Value range**: N/A
name	String	**Definition**: Name of the created sprint. **Value range**: N/A

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Parameter	Type	Description
due_date	String	**Definition**: End date of the created sprint. **Value range**: N/A
effective_date	String	**Definition**: Effective date of the created sprint. **Value range**: N/A
status	String	**Definition**: Status of the current sprint. **Value range**: **0**: not started
sharing	String	**Definition**: Sharing status of the current sprint. **Value range**: **none**: not shared
start_date	String	**Definition**: Start date of the current sprint. **Value range**: N/A
done_ratio	Integer	**Definition**: Progress of the current sprint. **Value range**: N/A

Example Requests

```
{endpoint}/v2/version/create-version?_=1753067241950

{
  "start_date" : 1752854400000,
  "due_date" : 1754064000000,
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "name" : "test"
}
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : {
```

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```
  "version" : {
    "id" : 26664721,
    "project_num_id" : 35138974,
    "project_id" : "5192de5eb435430c8cd41c6ae6028848",
    "name" : "Creating a sprint",
    "due_date" : "2025-08-02",
    "effective_date" : "2025-08-02",
    "status" : "0",
    "sharing" : "none",
    "start_date" : "2025-07-19",
    "done_ratio" : 0
  }
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.7.9 Querying the Work Items That Cannot Be Transitioned to a Specified Status When a Sprint Is Closed

Function

This API is used to query the work items that cannot be transitioned to a specific status when a sprint is closed.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/version/query-immovable-issues

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Table 4-651 Query Parameters

Parameter	Mandatory	Type	Description
version_id	No	String	**Definition**: Version ID of the end sprint. The value is obtained by calling the **Querying the Sprint** API. The ID in the version field in the response body is the ID of the current sprint. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
project_id	No	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-652 Response body parameters

Parameter	Type	Description
number	Integer	**Definition**: ID of the deleted sprint. **Value range**: N/A
id	String	**Definition**: Unique ID of the deleted sprint. **Value range**: N/A
status_id	Integer	**Definition**: Status ID of the deleted sprint. **Value range**: **0**: not started **1**: ongoing **2**: closed
status_name	String	**Definition**: Status name of the deleted sprint. **Value range**: **0**: not started **1**: ongoing **2**: closed

Example Requests

```
{endpoint}/v2/version/query-immovable-issues?
project_id=ac73924a87d0455ca9b16b0ed15fe367&version_id=26658650
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "number" : 0,
  "id" : "c42312e7f4b74810970a8201b0f96751",
  "status_id" : 5,
  "status_name" : "Closed"
}
```

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Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.7.10 Updating a Sprint (V2)

Function

This API is used to update a sprint.

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/version/update

Request Parameters

Table 4-653 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-654 Request body parameters

Parameter	Mandatory	Type	Description
due_date	No	Integer	**Definition**: End date of the current sprint (in the timestamp format, for example, **1757952000000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
id	No	Integer	**Definition**: Digital ID of the current sprint. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
name	No	String	**Definition**: Sprint name after modification. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
start_date	No	Integer	**Definition**: Start date of the current sprint (in the timestamp format, for example, **1757952000000**). **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
update_workitem_date	No	Boolean	**Definition**: Whether to change the estimated start and end time of all work items in the sprint. **Constraints**: N/A **Value range**: **true**: Synchronization is required. **false**: Synchronization is not required. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-655 Response body parameters

Parameter	Type	Description
result	String	**Definition**: Returned result of changing the sprint name. **Value range**: N/A

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Parameter	Type	Description
status	String	**Definition**: Returned status of changing a sprint. **Value range**: **success**: The modification is successful. **error**: The modification fails.

Example Requests

```
{endpoint}/v2/version/update

{
  "due_date" : 1754064000000,
  "id" : 26664721,
  "name" : "test",
  "start_date" : 1752854400000,
  "project_id" : "5192de5eb435430c8cd41c6ae6028848",
  "update_workitem_date" : false
}
```

Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : "",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.7.11 Deleting a Sprint (V2)

Function

This API is used to delete a sprint.

Calling Method

For details, see **Calling APIs**.

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URI

POST /v2/version/delete

Request Parameters

Table 4-656 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-657 Request body parameters

Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
version_id	No	String	**Definition**: Unique ID of the deleted sprint. The value is obtained by calling the **Querying the Sprint** API. The ID in the version field in the response body is the ID of the current sprint. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-658 Response body parameters

Parameter	Type	Description
result	String	**Definition**: Result of the request for deleting a sprint. **Value range**: N/A
status	String	**Definition**: Status of the request for deleting a sprint. **Value range**: **success**: The sprint is successfully deleted. **error**: The sprint deletion failed.

Example Requests

```
{endpoint}/v2/version/delete

{
  "project_id" : "ac73924a87d0455ca9b16b0ed15fe367",
  "version_id" : "26658661"
}
```

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Example Responses

Status code: 200

OK (The request has succeeded).

```
{
  "result" : "",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.7.12 Querying the Sprint List

Function

This API is used to query the sprint list.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/versions

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Table 4-659 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-660 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result of the sprint query.
status	String	**Definition**: Response status of the current sprint list. **Value range**: **success**: The response is successful. **error**: The response failed.

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Table 4-661 result

Parameter	Type	Description
versions	Array of **versions** objects	**Definition**: Returned sprints.
total_count	Integer	**Definition**: Total number of sprints. **Value range**: N/A

Table 4-662 versions

Parameter	Type	Description
id	Integer	**Definition**: Unique ID of a sprint. **Value range**: N/A
name	String	**Definition**: Sprint name. **Value range**: N/A
status	String	**Definition**: Current status of a sprint. **Value range**: **0**: not started **1**: ongoing **2**: closed
project_id	String	**Definition**: Unique ID of the project to which a sprint belongs. **Value range**: N/A
due_date	String	**Definition**: End date of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A

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Parameter	Type	Description
effective_date	String	**Definition**: Date when a sprint takes effect (in timestamp format, for example, **1756656000000**). **Value range**: N/A
created_on	String	**Definition**: Time when a sprint is created (in timestamp format, for example, **1756656000000**). **Value range**: N/A
updated_on	String	**Definition**: Last update time of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A
start_date	String	**Definition**: Start date of a sprint (in timestamp format, for example, **1756656000000**). **Value range**: N/A
is_current	String	**Definition**: Whether the sprint is the current version. **Value range**: N/A
program_version_id	String	**Definition**: ID of the associated program version. **Value range**: N/A
done_ratio	Integer	**Definition**: Sprint progress, in percentage. **Value range**: N/A

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Parameter	Type	Description
is_deleted	Integer	**Definition**: Whether the sprint has been deleted. **Value range**: **0** (not deleted) **1** (deleted)
status_option	Array of **status_option** objects	**Definition**: Sprint status option list. **Value range**: N/A
project	**project** object	**Definition**: Project to which a sprint belongs. **Value range**: N/A
issue_info	**issue_info** object	**Definition**: Statistics about sprint-related issues. **Value range**: N/A

Table 4-663 status_option

Parameter	Type	Description
id	String	**Definition**: Sprint status ID. **Value range**: N/A
name	String	**Definition**: Sprint status name. **Value range**: N/A

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Table 4-664 project

Parameter	Type	Description
name	String	**Definition**: Name of the project to which a sprint belongs. **Value range**: N/A
id	Integer	**Definition**: ID of the project to which a sprint belongs. **Value range**: N/A

Table 4-665 issue_info

Parameter	Type	Description
total	Integer	**Definition**: Total number of issues. **Value range**: N/A
type_info	Array of strings	**Definition**: Statistics on different types of issues. **Value range**: N/A
closed	String	**Definition**: Number of closed issues. **Value range**: N/A
un_closed	String	**Definition**: Number of unclosed issues. **Value range**: N/A

Example Requests

```
{endpoint}/v4/projects/{5192de5eb435430c8cd41c6ae6028848}/versions
```

Example Responses

Status code: 200

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OK (The request has succeeded).


```
{
  "result" : {
    "versions" : [ {
      "id" : 26664788,
      "name" : "111",
      "status" : "0",
      "sharing" : "none",
      "createFromProgramVersion" : false,
      "project_id" : "35138974",
      "due_date" : "1756656000000",
      "effective_date" : "1756656000000",
      "created_on" : "1754387539000",
      "updated_on" : "1754387539000",
      "start_date" : "1755446400000",
      "is_current" : "3",
      "program_version_id" : "-1",
      "done_ratio" : 0,
      "is_deleted" : 0,
      "status_option" : [ {
        "id" : "0",
        "name" : "To Do"
      }, {
        "id" : "1",
        "name" : "Doing"
      }, {
        "id" : "2",
        "name" : "Done"
      } ],
      "project" : {
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
      "issue_info" : {
        "total" : 0,
        "type_info" : [ ],
        "closed" : "0",
        "un_closed" : "0"
      }
    }, {
      "id" : 26664721,
      "name" : "Changing the sprint name",
      "status" : "1",
      "sharing" : "none",
      "createFromProgramVersion" : false,
      "project_id" : "35138974",
      "due_date" : "1754064000000",
      "effective_date" : "1754064000000",
      "created_on" : "1754375187000",
      "updated_on" : "1754380989000",
      "start_date" : "1752854400000",
      "is_current" : "1",
      "program_version_id" : "-1",
      "done_ratio" : 0,
      "is_deleted" : 0,
      "status_option" : [ {
        "id" : "0",
        "name" : "To Do"
      }, {
        "id" : "1",
        "name" : "Doing"
      }, {
        "id" : "2",
        "name" : "Done"
      } ],
      "project" : {
        "name" : "DevOps Full-Process Sample Project XXXX",
        "id" : 35138974
      },
```


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```
    "issue_info" : {
      "total" : 0,
      "type_info" : [ ],
      "closed" : "0",
      "un_closed" : "0"
    }
  }, {
    "id" : 26658716,
    "name" : "Sprint 1",
    "description" : "",
    "status" : "2",
    "sharing" : "none",
    "createFromProgramVersion" : false,
    "project_id" : "35138974",
    "due_date" : "1750348800000",
    "effective_date" : "1750348800000",
    "created_on" : "1753084463000",
    "updated_on" : "1754379665000",
    "start_date" : "1749398400000",
    "is_current" : "2",
    "program_version_id" : "-1",
    "done_ratio" : 100,
    "is_deleted" : 0,
    "status_option" : [ {
      "id" : "0",
      "name" : "To Do"
    }, {
      "id" : "1",
      "name" : "Doing"
    }, {
      "id" : "2",
      "name" : "Done"
    } ],
    "project" : {
      "name" : "DevOps Full-Process Sample Project XXXX",
      "id" : 35138974
    },
    "issue_info" : {
      "total" : 11,
      "type_info" : [ {
        "total" : 5,
        "name" : "Task",
        "closed" : "5",
        "id" : "2",
        "un_closed" : "0"
      }, {
        "total" : 3,
        "name" : "Bug",
        "closed" : "3",
        "id" : "3",
        "un_closed" : "0"
      }, {
        "total" : 3,
        "name" : "Story",
        "closed" : "3",
        "id" : "7",
        "un_closed" : "0"
      } ],
      "closed" : "11",
      "un_closed" : "0"
    }
  } ],
  "total_count" : 3
},
"status" : "success"
}
```


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Status Codes

Status Code	Description
200	OK (The request has succeeded).

Error Codes

See **Error Codes**.

4.8 Modules of the Scrum Project

4.8.1 Module for Creating a Project

Function

Querying the Module List of a Project

URI

POST /v4/projects/{project_id}/module

Table 4-666 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-667 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

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Table 4-668 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
module_name	Yes	String	Module name
parent_module_id	No	Integer	Parent module ID.
owner	Yes	**UserRequest** object	User Information

Table 4-669 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID, which is a 32-digit character string.

Response Parameters

Status code: 200

Table 4-670 Response body parameters

Parameter	Type	Description
description	String	Description
module_name	String	Module name
module_id	Integer	Specifies the module ID.
owner	**ModuleOwner** object	User Information

Table 4-671 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

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Status code: 400

Table 4-672 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-673 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Post https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/modules

{
  "description" : "module demo",
  "module_name" : "demo",
  "parent_module_id" : 1,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "description" : "module demo",
  "module_name" : "demo",
  "module_id" : 46691,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
    "user_num_id" : 4091,
    "user_name" : "demo_user_name_06",
    "nick_name" : "demo"
  }
}
```

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Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8.2 Querying the Module List of a Project

Function

This API is used to query the module list of a project.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/modules

Table 4-674 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Table 4-675 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. **Constraints**: Minimum value: **0**. **Options**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
limit	Yes	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **1,000**. **Default value**: 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-676 Response body parameters

Parameter	Type	Description
modules	Array of **ProjectModule** objects	**Definition**: Module list.
total	Integer	**Definition**: Total number of modules. **Options**: N/A

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Table 4-677 ProjectModule

Parameter	Type	Description
children	Array of **ProjectChildModule** objects	**Definition**: Child module information.
deepth	Integer	**Definition**: Module level. **Options**: N/A
is_parent	Boolean	**Definition**: Parent module or not. The options are **true** (parent module) and **false** (non–parent module). **Options**: **true** and **false**
module_id	Integer	**Definition**: Module ID. **Options**: N/A
module_name	String	**Definition**: Module name. **Options**: N/A
owner	**ModuleOwner** object	**Definition**: Module owner information.

Table 4-678 ProjectChildModule

Parameter	Type	Description
deepth	Integer	**Definition**: Module level. **Options**: N/A

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Parameter	Type	Description
is_parent	Boolean	**Definition**: Parent module or not. The options are **true** (parent module) and **false** (non–parent module). **Options**: **true** and **false**
module_id	Integer	**Definition**: Module ID. **Options**: N/A
module_name	String	**Definition**: Module name. **Options**: N/A
owner	**ModuleOwner** object	**Definition**: Template owner information.
parent_module_id	Integer	**Definition**: Parent module ID. **Options**: N/A

Table 4-679 ModuleOwner

Parameter	Type	Description
nick_name	String	**Definition**: User alias. **Options**: N/A
user_id	String	**Definition**: User ID. The value is a string of 32 characters. **Options**: N/A
user_name	String	**Definition**: Username. **Options**: N/A

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Parameter	Type	Description
user_num_id	Integer	**Definition**: Digital ID of a user. **Options**: N/A

Status code: 400

Table 4-680 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-681 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/modules
```

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "modules" : [ {
    "module_id" : 1,
    "module_name" : "demo",
    "owner" : {
      "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
      "user_num_id" : 4091,
      "user_name" : "demo_user_name_06",
      "nick_name" : "demo"
    },
    "deepth" : 1,
    "is_parent" : true,
    "children" : [ {
      "module_id" : 1,
```

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```
    "module_name" : "demo",
    "owner" : {
      "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
      "user_num_id" : 4091,
      "user_name" : "demo_user_name_06",
      "nick_name" : "demo"
    },
    "deepth" : 1,
    "is_parent" : true,
    "parent_module_id" : 1
   } ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectModulesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectModulesRequest request = new ListProjectModulesRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectModulesResponse response = client.listProjectModules(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
```

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```
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectModulesRequest()
        request.project_id = "{project_id}"
        response = client.list_project_modules(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

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```
            WithCredential(auth).
            Build())

    request := &model.ListProjectModulesRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectModules(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8.3 Module for Updating a Project

Function

Module for Updating a Project

URI

PUT /v4/projects/{project_id}/modules/{module_id}

Table 4-682 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: **32** Maximum: **32**

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Parameter	Mandatory	Type	Description
module_id	Yes	Integer	Specifies the module ID. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-683 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Table 4-684 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
module_name	Yes	String	Module
owner	Yes	**UserRequest** object	User Information

Table 4-685 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID, which is a 32-digit character string.

Response Parameters

Status code: 200

Table 4-686 Response body parameters

Parameter	Type	Description
description	String	Description

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Parameter	Type	Description
module_name	String	Module name
module_id	Integer	Specifies the module ID.
owner	ModuleOwner object	User Information

Table 4-687 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

Status code: 400

Table 4-688 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-689 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/662086

{
  "description" : "module demo",
  "module_name" : "demo",
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
```

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```
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "description" : "module name",
  "module_name" : "demo",
  "module_id" : 46691,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2",
    "user_num_id" : 4091,
    "user_name" : "demo_user_name_06",
    "nick_name" : "demo"
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.8.4 Module for Deleting a Project

Function

Module for Deleting a Project

URI

DELETE /v4/projects/{project_id}/modules/{module_id}

Table 4-690 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: **32** Maximum: **32**

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Parameter	Mandatory	Type	Description
module_id	Yes	Integer	Specifies the module ID. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-691 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **10** Maximum: **32768**

Response Parameters

Status code: 400

Table 4-692 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-693 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

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Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354

DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9 Domain of a Scrum Project

4.9.1 Querying the Domain List (V2)

Function

This API is used to query the domain list (V2).

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/domain/domain

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Table 4-694 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
flag	Yes	Integer	**Definition**: Whether the domain is configured for a project. **Constraints**: N/A **Value range**: **0** (Not configured) **1** (Configured) **Default value**: N/A

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Pagination index. The offset is an integer multiple of **limit**. For example, if the value of offset is **0**, the return starts from the first record. If the value of offset is **10**, the return starts from the eleventh record. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **10,000**. **Default value**: Default value: **0**.
limit	No	Integer	**Definition**: Number of records displayed on each page. **Constraints**: N/A **Value range**: Minimum length: 1 character. Maximum length: 10 characters. **Default value**: **10**
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_size	No	Integer	**Definition**: Page size. **Constraints**: N/A **Value range**: Minimum value: **0**. Maximum value: **9,999,999,999**. **Default value**: N/A

Request Parameters

Table 4-695 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-696 Response body parameters

Parameter	Type	Description
-	String	Returned information about domain settings.

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Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Constraints**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-697 result

Parameter	Type	Description
domains	Array of **domains** objects	**Definition**: Domains. **Value range**: N/A
total_count	Integer	**Definition**: Number of domains. **Value range**: N/A

Table 4-698 domains

Parameter	Type	Description
id	Integer	**Definition**: Domain ID. **Value range**: N/A
name	String	**Definition**: Domain name. **Value range**: N/A

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Parameter	Type	Description
flag	Integer	**Definition**: Whether the domain is configured for the project. **Value range**: **0** (not configured for the project) **1** (configured for the project)
project_id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
domain_id	Integer	**Definition**: Digital ID of a domain. **Value range**: N/A
project_uuid	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list (ListProjectsV4.xml). **Value range**: N/A
default_d	Integer	**Definition**: Default value of whether the domain is configured for the project. **Value range**: **1**

Example Requests

```
{endpoint}/v2/domain/domain?
project_id=5192de5eb435430c8cd41c6ae6028848&page_no=1&page_size=10&flag=1&_=1753181122622
```

Example Responses

Status code: 200

Returned information

```
{
  "result": {
    "domains": [
      {
```

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```
    "id": 14,
    "name": "Performance",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 14,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 15,
    "name": "Function",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 15,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 16,
    "name": "Reliability",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 16,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 17,
    "name": "Network safety",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 17,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 18,
    "name": "Maintainability",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 18,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 19,
    "name": "Other DFX",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 19,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 20,
    "name": "Availability",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 20,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
    "default_d": 1
  },
  {
    "id": 56599,
    "name": "111",
    "flag": 1,
    "project_id": 35138974,
    "domain_id": 56599,
    "project_uuid": "5192de5eb435430c8cd41c6ae6028848",
```


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```
      "default_d": 0,
    }
  ],
  "total_count": 8
 },
 "status": "success"
}
```


Status Codes

Status Code	Description
200	Returned information

Error Codes

See **Error Codes**.

4.9.2 Creating a Project Domain

Function

This API is used to query the project domain list.

Calling Method

For details, see **Calling APIs**.

URI

POST /v4/projects/{project_id}/domain

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Table 4-699 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-700 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition**: Domain name. **Constraints**: Regular expression: ^[a-zA-Z0-9\u4E00-\u9FA5][a-zA-Z0-9\u4E00-\u9FA5-_]{0,30}$ **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-701 Response body parameters

Parameter	Type	Description
domain_id	String	**Definition**: Domain ID. **Options**: N/A
domain_name	String	**Definition**: Domain name. **Options**: N/A

Status code: 400

Table 4-702 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-703 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Post https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/domains

{
  "domain_name" : "demo"
}
```

Example Responses

Status code: 200

OK

```
{
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af",
```

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```
  "domain_name" : "demo"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CreateProjectDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateProjectDomainRequest request = new CreateProjectDomainRequest();
        request.withProjectId("{project_id}");
        CreateProjectDomainRequestBody body = new CreateProjectDomainRequestBody();
        body.withDomainName("demo");
        request.withBody(body);
        try {
            CreateProjectDomainResponse response = client.createProjectDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
```

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```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateProjectDomainRequest()
        request.project_id = "{project_id}"
        request.body = CreateProjectDomainRequestBody(
            domain_name="demo"
        )
        response = client.create_project_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateProjectDomainRequest{}
    request.ProjectId = "{project_id}"
```

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```
    request.Body = &model.CreateProjectDomainRequestBody{
        DomainName: "demo",
    }
    response, err := client.CreateProjectDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9.3 Querying the Domain List of a Project

Function

This API is used to query the project domain list.

Calling Method

For details, see **Calling APIs**.

URI

GET /v4/projects/{project_id}/domains

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Table 4-704 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Table 4-705 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Query offset. **Constraints**: N/A **Options**: Minimum value: **0**. **Default value**: N/A
limit	No	Integer	**Definition**: Data returned at a time. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **100**. **Default value**: N/A

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Request Parameters

Table 4-706 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-707 Response body parameters

Parameter	Type	Description
domains	Array of **CreateProjectDomainResponseBody** objects	**Definition**: Domain list.
total	Integer	**Definition**: Total number of domains. **Options**: N/A

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Table 4-708 CreateProjectDomainResponseBody

Parameter	Type	Description
domain_id	String	**Definition**: Domain ID. **Options**: N/A
domain_name	String	**Definition**: Domain name. **Options**: N/A

Status code: 400

Table 4-709 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-710 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
Get https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/domains
```

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "domains" : [ {
    "domain_name" : "demo",
    "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af"
```

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```
 } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class ListProjectDomainsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProjectDomainsRequest request = new ListProjectDomainsRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectDomainsResponse response = client.listProjectDomains(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
```

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```
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProjectDomainsRequest()
        request.project_id = "{project_id}"
        response = client.list_project_domains(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectDomainsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListProjectDomains(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
```

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```
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.9.4 Updating a Project Domain

Function

This API is used to update the domain of a project.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v4/projects/{project_id}/domains/{domain_id}

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Table 4-711 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
domain_id	Yes	String	**Definition**: Domain ID. You can obtain the value using the **Querying the Project Domain List** API. The value of **domain_id** in the response message body is the project domain ID. **Constraints**: Regular expression: [0-9a-z]{32} **Options**: Maximum: 32 characters. **Default value**: N/A

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Request Parameters

Table 4-712 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition**: Domain name. **Constraints**: Regular expression: ^[a-zA-Z0-9\u4E00-\u9FA5][a-zA-Z0-9\u4E00-\u9FA5-_]{0,30}$ **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-713 Response body parameters

Parameter	Type	Description
domain_id	String	**Definition**: Domain ID. **Options**: N/A
domain_name	String	**Definition**: Domain name. **Options**: N/A

Status code: 400

Table 4-714 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Status code: 401

Table 4-715 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/662086

{
  "domain_name" : "test"
}
```

Example Responses

Status code: 200

OK

```
{
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af",
  "domain_name" : "Domain demo"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class UpdateProjectDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateProjectDomainRequest request = new UpdateProjectDomainRequest();
        request.withProjectId("{project_id}");
        request.withDomainId("{domain_id}");
        CreateProjectDomainRequestBody body = new CreateProjectDomainRequestBody();
        body.withDomainName("test");
        request.withBody(body);
        try {
            UpdateProjectDomainResponse response = client.updateProjectDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateProjectDomainRequest()
        request.project_id = "{project_id}"
        request.domain_id = "{domain_id}"
        request.body = CreateProjectDomainRequestBody(
            domain_name="test"
        )
        response = client.update_project_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateProjectDomainRequest{}
    request.ProjectId = "{project_id}"
    request.DomainId = "{domain_id}"
    request.Body = &model.CreateProjectDomainRequestBody{
        DomainName: "test",
    }
    response, err := client.UpdateProjectDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

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Error Codes

See **Error Codes**.

4.9.5 Canceling the Association Between the Domain and the Project

Function

This API is used to disassociate a domain from a project.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v4/projects/{project_id}/domains/{domain_id}

Table 4-716 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition**: Domain ID. You can obtain the value using the **Querying the Project Domain List** API. The value of **domain_id** in the response message body is the project domain ID. **Constraints**: Regular expression: [0-9a-z]{32} **Options**: Maximum: 32 characters. **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 204

No Content

Status code: 400

Table 4-717 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-718 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/6354
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.projectman.v4.region.ProjectManRegion;
import com.huaweicloud.sdk.projectman.v4.*;
import com.huaweicloud.sdk.projectman.v4.model.*;


public class CancelProjectDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ProjectManClient client = ProjectManClient.newBuilder()
                .withCredential(auth)
                .withRegion(ProjectManRegion.valueOf("<YOUR REGION>"))
                .build();
        CancelProjectDomainRequest request = new CancelProjectDomainRequest();
        request.withProjectId("{project_id}");
        request.withDomainId("{domain_id}");
        try {
            CancelProjectDomainResponse response = client.cancelProjectDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

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Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkprojectman.v4.region.projectman_region import ProjectManRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkprojectman.v4 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = ProjectManClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ProjectManRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CancelProjectDomainRequest()
        request.project_id = "{project_id}"
        request.domain_id = "{domain_id}"
        response = client.cancel_project_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    projectman "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/projectman/v4/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := projectman.NewProjectManClient(
        projectman.ProjectManClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

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```
    request := &model.CancelProjectDomainRequest{}
    request.ProjectId = "{project_id}"
    request.DomainId = "{domain_id}"
    response, err := client.CancelProjectDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.10 Scrum Project Statuses

4.10.1 Querying the Project Status List

Function

Queries the project status list.

URI

GET /v4/projects/{project_id}/statuses

Table 4-719 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	32-bit ID of a DevCloud project

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Table 4-720 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Queries the offset. Default: **0**
limit	No	Integer	Number of data records returned at a time. The value ranges from 1 to 100. Minimum: **1** Maximum: **100** Default: **10**
tracker_id	No	Integer	Work item types supported by custom fields: 2 indicates a task, 3 indicates a bug,5 indicates an epic, 6 indicates a feature, and 7 indicates a story.

Request Parameters

Table 4-721 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 4-722 Response body parameters

Parameter	Type	Description
total	Integer	Total number of statuses
issue_statuses	Array of **IssueStatus** objects	Status list

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Table 4-723 IssueStatus

Parameter	Type	Description
id	String	Status UUID
status_id	Integer	Status ID
name	String	Status name
tracker_ids	Array of integers	List of associated work items
status_attribute	**StatusAttribute** object	Status attribute type. The value can be started, ongoing, and closed.

Table 4-724 StatusAttribute

Parameter	Type	Description
id	Integer	Status attribute ID
name	String	Status attribute name

Status code: 400

Table 4-725 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-726 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/statuses
```

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Example Responses

Status code: 200

OK


```
{
  "total" : 1,
  "issue_statuses" : [ {
    "id" : "123cefde62004de2b62b5e8dd2c2b3af",
    "status_id" : 1,
    "name" : "New",
    "tracker_ids" : [ 0 ],
    "status_attribute" : {
      "id" : 1,
      "name" : "string"
    }
  } ]
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See **Error Codes**.

4.10.2 Querying All Statuses of a Transaction

Function

This API is used to query the all statuses of a transaction.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issue-status/all

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Table 4-727 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
tracker_id	Yes	Integer	**Definition**: Work item type ID. **Constraints**: N/A **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story) **Default value**: N/A

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Request Parameters

Table 4-728 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-729 Response body parameters

Parameter	Type	Description
result	**result** object	Work item status information.
status	String	**Definition**: Returned status. **Constraints**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-730 result

Parameter	Type	Description
2	Array of **IssueStatusV2** objects	Task status list.

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Parameter	Type	Description
3	Array of **IssueStatusV2** objects	Bug status list.
5	Array of **IssueStatusV2** objects	Epic status list.
6	Array of **IssueStatusV2** objects	Feature status list.
7	Array of **IssueStatusV2** objects	Story status list.
issue_statuses	Array of **IssueStatusV2** objects	List of all statuses.

Table 4-731 IssueStatusV2

Parameter	Type	Description
id	Integer	**Definition**: Primary key ID. **Value range**: N/A
status_id	String	**Definition**: Work item status ID. **Value range**: N/A
name	String	**Definition**: Work item status name. **Value range**: N/A
is_closed	Integer	**Definition**: Whether a work item status is the done status. **Value range**: **1** (done status) **0** (not done status)

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Parameter	Type	Description
position	Integer	**Definition**: Position of a work item status in the status list. **Value range**: N/A
default_done_ratio	Integer	**Definition**: Default completion rate. **Value range**: N/A
is_initial	Integer	**Definition**: Whether a work item is initialized. **Value range**: **1** (initiated) **0** (not initialized)
issue_field_configs	Array of **IssueFieldConfig** objects	Work item fields.
flag	Integer	**Definition**: Whether a work item status is deleted. **Value range**: **1** (deleted) **0** (not deleted)
status_attribute	Integer	**Definition**: Status attribute ID. **Value range**: N/A
issue_status_attribute	**IssueStatusAttribute** object	Work item status.

Table 4-732 IssueFieldConfig

Parameter	Type	Description
custom	Boolean	**Definition**: Whether the status is custom. **Value range**: **true** (custom) **false** (not custom)

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Parameter	Type	Description
default_option	Array of **OptionVOV2** objects	**Definition**: Use the default.
default_options	Array of **OptionVOV2** objects	**Definition**: Use the default.
default_value	String	**Definition**: Default value of a field. **Value range**: N/A
field	String	**Definition**: Field. **Value range**: N/A

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Parameter	Type	Description
field_type	String	**Description**: Field value type. **Value range**: **textArea**: multi-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. ***text***: *single-line text, containing letters, digits, underscore (*), and hyphen (-). The length cannot exceed 500 characters. **select**: drop-down list, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized. ***number***: *number whose value range is set by users during custom field creation.* ***date***: *date which is accurate to year, month, and day.* ***time_date***: *date which is accurate to hour, minute, and second. The value is a timestamp of the long integer type.)* ***checkbox***: *check box, containing letters, digits, underscore (*), and hyphen (-). An option contains a maximum of 40 characters and a maximum of 60 options can be customized. **radio**: radio box, containing letters, digits, underscore (_), and hyphen (-). An option contains a maximum of 40 characters. A maximum of 60 options can be customized.
is_required	Integer	**Definition**: Whether the status is mandatory. **Value range**: **0** (not mandatory) **1** (mandatory)
is_visible	Boolean	**Definition**: Whether the status is visible. **Value range**: **true** (visible) **false** (invisible)

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Parameter	Type	Description
last	Boolean	**Definition**: Whether the status is at the end. **Value range**: **true** (at the end) **false** (not at the end)
name	String	**Definition**: Field name. **Options**: N/A
option	Array of **OptionVOV2** objects	**Definition**: Field options.
options	String	**Definition**: Field configuration. **Value range**: N/A
position	Integer	**Definition**: Position ID of the status on the page. **Value range**: N/A
project_id	String	**Definition**: 32-character ID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Value range**: N/A
tracker_list	Array of integers	**Definition**: Work item type list.
type_options	String	**Description**: Field value type. **Value range**: **select** (multiple values available for selection) **fixed_value** (fixed value)

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Table 4-733 OptionVOV2

Parameter	Type	Description
id	String	**Definition**: Option ID. **Options**: N/A
name	String	**Definition**: Option name. **Options**: N/A

Table 4-734 IssueStatusAttribute

Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Value range**: N/A
name	String	**Definition**: Status name. **Value range**: N/A
type	String	**Definition**: State type. **Value range**: To Do Doing Done

Example Requests

```
{endpoint}/v2/issue-status/all?project_id=21f161ddf28942ac90c7762be8a455ee&tracker_id=7
```

Example Responses

Status code: 200

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Response to the success of the interface for querying all statuses of a transaction.


```
{
  "result" : {
    "2" : [ {
      "id" : 1,
      "status_id" : "58435fff2a3c451aaf91cda38fdc80c1",
      "name" : "New",
      "is_closed" : 0,
      "is_initial" : 1,
      "issue_field_configs" : [ {
        "custom" : false,
        "field" : "assigned_to_id",
        "name" : "Handler",
        "field_type" : "fixed_value",
        "type_options" : "select,fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 1,
        "is_required" : 2,
        "last" : true,
        "options" : ""
      }, {
        "custom" : false,
        "field" : "notes",
        "name" : "Comment",
        "field_type" : "text",
        "type_options" : "fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 2,
        "is_required" : 0,
        "last" : false
      } ],
      "issue_status_attribute" : {
        "name" : "To Do",
        "type" : "START_STATUS"
      }
    }, {
      "id" : 7,
      "status_id" : "34193c2555eb404f92d088c084257825",
      "name" : "aaa",
      "is_closed" : 0,
      "is_initial" : 1,
      "issue_field_configs" : [ {
        "custom" : false,
        "field" : "assigned_to_id",
        "name" : "Handler",
        "field_type" : "fixed_value",
        "type_options" : "select,fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 1,
        "is_required" : 2,
        "last" : true,
        "options" : ""
      }, {
        "custom" : false,
        "field" : "notes",
        "name" : "Comment",
        "field_type" : "text",
        "type_options" : "fixed_value",
        "default_value" : "",
        "is_visible" : true,
        "position" : 2,
        "is_required" : 0,
        "last" : false
      } ],
      "issue_status_attribute" : {
        "name" : "To Do",
```


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```
    "type" : "START_STATUS"
  }
} ],
"3" : [ {
  "id" : 1,
  "status_id" : "58435fff2a3c451aaf91cda38fdc80c1",
  "name" : "New",
  "is_closed" : 0,
  "is_initial" : 1,
  "issue_field_configs" : [ {
    "custom" : false,
    "field" : "assigned_to_id",
    "name" : "Handler",
    "field_type" : "fixed_value",
    "type_options" : "select,fixed_value",
    "default_value" : "",
    "is_visible" : true,
    "position" : 1,
    "is_required" : 2,
    "last" : true,
    "options" : ""
  }, {
    "custom" : false,
    "field" : "notes",
    "name" : "Comment",
    "field_type" : "text",
    "type_options" : "fixed_value",
    "default_value" : "",
    "is_visible" : true,
    "position" : 2,
    "is_required" : 0,
    "last" : false
  } ],
  "issue_status_attribute" : {
    "name" : "To Do",
    "type" : "START_STATUS"
  }
} ],
"issue_statuses" : [ {
  "id" : 1,
  "status_id" : "58435fff2a3c451aaf91cda38fdc80c1",
  "name" : "New",
  "is_closed" : 0,
  "position" : 1,
  "is_initial" : 1,
  "flag" : 1,
  "issue_status_attribute" : {
    "name" : "To Do",
    "type" : "START_STATUS"
  }
}, {
  "id" : 7,
  "status_id" : "34193c2555eb404f92d088c084257825",
  "name" : "aaa",
  "is_closed" : 0,
  "position" : 2,
  "is_initial" : 1,
  "flag" : 1,
  "issue_status_attribute" : {
    "name" : "To Do",
    "type" : "START_STATUS"
  }
}, {
  "id" : 2,
  "status_id" : "6de47eb5f35f442680a9f26994784246",
  "name" : "Doing",
  "is_closed" : 0,
  "position" : 3,
  "is_initial" : 0,
```


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```
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Doing",
      "type" : "PROCESS_STATUS"
    }
  }, {
    "id" : 3,
    "status_id" : "71e2810154c743b69c804414a5d525bd",
    "name" : "Resolved",
    "is_closed" : 0,
    "position" : 4,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Doing",
      "type" : "PROCESS_STATUS"
    }
  }, {
    "id" : 4,
    "status_id" : "8d540bcba87d451f9d9d80f8b1f7e7ad",
    "name" : "Testing",
    "is_closed" : 0,
    "position" : 5,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Doing",
      "type" : "PROCESS_STATUS"
    }
  }, {
    "id" : 6,
    "status_id" : "176d8af2ea7f4486937ea703c11bf57d",
    "name" : "Rejected",
    "is_closed" : 1,
    "position" : 6,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Done",
      "type" : "DONE_STATUS"
    }
  }, {
    "id" : 5,
    "status_id" : "6759ae8357534ce28edaec4d242d4058",
    "name" : "Closed",
    "is_closed" : 1,
    "position" : 7,
    "is_initial" : 0,
    "flag" : 1,
    "issue_status_attribute" : {
      "name" : "Done",
      "type" : "DONE_STATUS"
    }
  } ]
 },
 "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to the success of the interface for querying all statuses of a transaction.

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Error Codes

See **Error Codes**.

4.10.3 Plans of a Scrum Project

4.10.3.1 Querying a Plan

Function

This API is used to query a plan.

Calling Method

For details, see **Calling APIs**.

URI

GET /v3/plan/{project_id}/{plan_id}/info

Table 4-735 Path Parameters

Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Plan ID, which can be obtained by calling the **Querying All Plans Visible to the Current User in Pagination Mode** API. The value of **id** in the response message body is the plan ID. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

Request Parameters

Table 4-736 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-737 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result. **Value range**: N/A
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-738 result

Parameter	Type	Description
id	String	**Definition**: Plan ID. **Value range**: N/A
name	String	**Definition**: Plan name. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the API for querying the project list. **Value range**: N/A

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Parameter	Type	Description
creator	**creator** object	**Definition**: Plan creator. **Value range**: N/A
updater	**updater** object	**Definition**: Plan updater. **Value range**: N/A
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
updated_on	String	**Definition**: Date when a work item is updated, in timestamp format, for example, **1839340800000**. **Value range**: N/A

Table 4-739 creator

Parameter	Type	Description
user_id	String	**Definition**: User ID. **Value range**: N/A
domain_id	String	**Definition**: Domain name ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A

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Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A

Table 4-740 updater

Parameter	Type	Description
user_id	String	**Definition**: User ID. **Value range**: N/A
domain_id	String	**Definition**: Domain name ID. **Value range**: N/A
nick_name	String	**Definition**: User alias. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A

Example Requests

```
{endpoint}/v3/plan/381fcca9c056482d92da3e8b9da71db5/c573497c87414e97a29444c0054c1361/info
```

Example Responses

Status code: 200

Successful response for querying a single planning interface.

```
{
  "result" : {
    "id" : "f8f870c2b84548548cb75aa61382b894",
    "name" : "00000",
    "type" : "gantt",
    "project_id" : "c15cc54e338d4506afd9bd8103071ff0",
    "creator" : {
      "user_id" : "xxxxxx",
```

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```
    "domain_id" : "xxxxxx",
    "nick_name" : "xxxxxx",
    "first_name" : "xxxxxx"
   },
   "updater" : {
    "user_id" : "xxxxxx",
    "domain_id" : "xxxxxx",
    "nick_name" : "xxxxxx",
    "first_name" : "xxxxxx"
   },
   "created_on" : "1752828658000",
   "updated_on" : "1752828658000"
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Successful response for querying a single planning interface.

Error Codes

See **Error Codes**.

4.10.3.2 Deleting Plans in Batches

Function

This API is used to delete plans in batches.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v3/plan/{project_id}/management

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Table 4-741 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-742 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	**Definition**: 32-character UUID of a plan. **Constraints**: N/A

Response Parameters

Status code: 200

Table 4-743 Response body parameters

Parameter	Type	Description
status	String	**Definition**: API response status. **Value range**: **success**: successful **error**: failed

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Example Requests

```
https://{endpoint}/v3/plan/e2da96a5d2c845e284f0ad47f8ca8cb1/management

[ "0579f0388ed84b00884a09c49862a229", "2a49ac3c37c14facacd2576c81b6bf01" ]
```

Example Responses

Status code: 200

Definition:

Returned success data in JSON format.

Options:

N/A

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	**Definition**: Returned success data in JSON format. **Options**: N/A

Error Codes

See **Error Codes**.

4.10.3.3 Creating a Requirement Plan

Function

This API is used to create a requirement plan.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/plan/{project_id}/management

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Table 4-744 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-745 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition**: Group name. **Constraints**: N/A **Options**: N/A **Default value**: N/A
type	Yes	String	**Definition**: Plan type. **Constraints**: N/A **Value range**: **gantt** (Gantt chart) **mind** (mind map) **Default value**: **mind**

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Response Parameters

Status code: 200

Table 4-746 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success**: successful **error**: failed

Table 4-747 result

Parameter	Type	Description
id	String	**Definition**: Plan ID. **Value range**: N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition**: Project ID. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

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Table 4-748 creator

Parameter	Type	Description
user_id	String	**Definition**: User ID of the creator. **Value range**: N/A
domain_id	String	**Definition**: Tenant ID. **Value range**: N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Example Requests

```
{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/management

{
  "name" : "test",
  "type" : "gantt"
}
```

Example Responses

Status code: 200

Creates a requirement plan response.

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "name" : "test",
    "type" : "gantt",
    "project_id" : "919bb351ef424e2daaf3dd80c179fae9",
    "creator" : {
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "nick_name" : "Sam",
      "first_name" : "devcloud_devcloud_s00404480_01"
    }
  },
  "status" : "success"
}
```

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Status Codes

Status Code	Description
200	Creates a requirement plan response.

Error Codes

See **Error Codes**.

4.10.3.4 Updating a Requirement Plan

Function

This API is used to update a requirement plan.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v3/plan/{project_id}/management/{plan_id}

Table 4-749 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Querying the Release/Sprint List** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-750 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-751 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition**: Group name. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-752 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success**: successful **error**: failed

Table 4-753 result

Parameter	Type	Description
id	String	**Definition**: Plan ID. **Value range**: N/A
name	String	**Definition**: Plan title. **Value range**: N/A

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Parameter	Type	Description
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition**: Project ID. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

Table 4-754 creator

Parameter	Type	Description
user_id	String	**Definition**: User ID of the creator. **Value range**: N/A
domain_id	String	**Definition**: Tenant ID. **Value range**: N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Example Requests

```
PUT https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/management/
bf56512ab4e544c29d03d068711ca56a

{
```

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```
  "name" : "test"
}
```

Example Responses

Status code: 200

Response of the API for updating a requirement plan.

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "name" : "test"
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response of the API for updating a requirement plan.

Error Codes

See **Error Codes**.

4.10.3.5 Updating a Thumbnail

Function

This API is used to update a thumbnail.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v3/plan/{project_id}/management/{plan_id}/img

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Table 4-755 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
plan_id	Yes	String	**Definition**: Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Querying the Release/Sprint List** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-756 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-757 Request body parameters

Parameter	Mandatory	Type	Description
img_url	Yes	String	**Definition**: Thumbnail URL. **Constraints**: Regular expression: /v1/upload/%s/\d{6}/[a-zA-Z0-9]+.[a-zA-Z] **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-758 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success**: successful **error**: failed

Table 4-759 result

Parameter	Type	Description
id	String	**Definition**: Plan ID. **Value range**: N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)
project_id	String	**Definition**: Project ID. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

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Table 4-760 creator

Parameter	Type	Description
user_id	String	**Definition**: User ID of the creator. **Value range**: N/A
domain_id	String	**Definition**: Tenant ID. **Value range**: N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Example Requests

```
PUT https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/management/
bf56512ab4e544c29d03d068711ca56a/img

{
  "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
}
```

Example Responses

Status code: 200

Updates the thumbnail response.

```
{
  "result" : {
    "id" : "bf56512ab4e544c29d03d068711ca56a",
    "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
  },
  "status" : "success"
}
```

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Status Codes

Status Code	Description
200	Updates the thumbnail response.

Error Codes

See **Error Codes**.

4.10.3.6 Querying the Plan List

Function

This API is used to query all plans visible to users in the current project in pagination mode.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/plan/{project_id}/managements

Table 4-761 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-762 Request body parameters

Parameter	Mandatory	Type	Description
search	No	String	**Definition**: Group name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
user_ids	No	Array of strings	**Definition**: Creator UUID list. You can obtain the value using the **Obtaining the Current User Information** API. The value of **user_id** in the response message body is the 32-character UUID of the user. **Constraints**: N/A
sort	No	String	**Definition**: Sorting rule of the queried data. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_no	Yes	Integer	**Definition**: Current page number. **Constraints**: N/A **Value range**: Minimum value: **1**. Maximum value: **9,999**. **Default value**: **1**

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Parameter	Mandatory	Type	Description
type	No	String	**Definition**: Plan type. **Constraints**: N/A **Value range**: **gantt** (Gantt chart) **mind** (mind map) **Default value**: N/A
page_size	Yes	Integer	**Definition**: Number of rows on each page. **Constraints**: N/A **Value range**: Minimum value: **1**. Maximum value: **200**. **Default value**: **1**

Response Parameters

Status code: 200

Table 4-763 Response body parameters

Parameter	Type	Description
plans	Array of **PlanVO** objects	**Definition**: Project plan list.
total	Long	**Definition**: Total number of queried project plans. **Options**: N/A
minds	Long	**Definition**: Number of plans whose type is mind map. **Options**: N/A

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Parameter	Type	Description
gantts	Long	**Definition**: Number of plans whose type is Gantt chart. **Options**: N/A

Table 4-764 PlanVO

Parameter	Type	Description
result	**result** object	**Definition**: Plan list.
status	String	**Definition**: Processing status of a request. **Value range**: **success**: successful **error**: failed

Table 4-765 result

Parameter	Type	Description
id	String	**Definition**: Plan ID. **Value range**: N/A
name	String	**Definition**: Plan title. **Value range**: N/A
type	String	**Definition**: Plan type. **Value range**: **gantt** (Gantt chart) **mind** (mind map)

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Parameter	Type	Description
project_id	String	**Definition**: Project ID. **Value range**: N/A
creator	**creator** object	**Definition**: Creator information.

Table 4-766 creator

Parameter	Type	Description
user_id	String	**Definition**: User ID of the creator. **Value range**: N/A
domain_id	String	**Definition**: Tenant ID. **Value range**: N/A
nick_name	String	**Definition**: Creator alias. **Value range**: N/A
first_name	String	**Definition**: Username of the creator. **Value range**: N/A

Example Requests

```
POST https://{endpoint}/v3/plan/919bb351ef424e2daaf3dd80c179fae9/managements

{
  "sort" : "",
  "search" : "",
  "page_no" : 1,
  "page_size" : 15,
  "type" : "gantt",
  "user_ids" : [ "a360371833bf4c558f796fd707b44daf" ]
}
```

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Example Responses

Status code: 200

Query all plan data visible to the current user in the project.


```
{
  "result" : {
    "plans" : [ {
      "id" : "bf56512ab4e544c29d03d068711ca56a",
      "name" : "Gantt test",
      "type" : "gantt",
      "project_id" : "919bb351ef424e2daaf3dd80c179fae9",
      "creator" : {
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "nick_name" : "Sam",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "updater" : {
        "user_id" : "a360371833bf4c558f796fd707b44daf",
        "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
        "nick_name" : "Sam",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "created_on" : "1749730042000",
      "updated_on" : "1749730527000",
      "img_url" : "/v1/upload/919bb351ef424e2daaf3dd80c179fae9/202506/1749730526922581391.png"
    } ],
    "total" : "1",
    "minds" : "0",
    "gantts" : "1"
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Query all plan data visible to the current user in the project.

Error Codes

See **Error Codes**.

4.10.3.7 Querying the Work Items That Can Be Added to the Current Plan

Function

This API is used to query the work items that can be added to the current plan.

Calling Method

For details, see **Calling APIs**.

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URI

POST /v3/plan/{project_id}/{plan_id}/addable-issues

Table 4-767 Path Parameters

Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Plan ID, which can be obtained by calling the **Querying All Plans Visible to the Current User in Pagination Mode** API. The value of **id** in the response message body is the plan ID. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A

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Request Parameters

Table 4-768 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-769 Request body parameters

Parameter	Mandatory	Type	Description
subject	No	String	**Definition**: Filter criteria for querying the work item list. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-770 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-771 result

Parameter	Type	Description
total_count	Integer	**Definition**: Total number of work items. **Value range**: N/A
issue_cur_count	Integer	**Definition**: Number of current work items. **Value range**: N/A

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Parameter	Type	Description
issues	Array of **Issue** objects	**Definition**: Work item.

Table 4-772 Issue

Parameter	Type	Description
updated_on	String	**Definition**: Date when a work item is updated. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
story_point	**StoryPoint** object	**Definition**: Story point of a work item. **Value range**: N/A
subject	String	**Definition**: Owner of a work item. **Value range**: N/A
project	**Project** object	**Definition**: Project. **Value range**: N/A
is_parent	Boolean	**Definition**: Whether there are child work items. **Value range**: **true** (with child work items) **false** (no child work items)
done_ratio	Integer	**Definition**: Work item completion rate. **Value range**: N/A

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Parameter	Type	Description
findReleaseDev	String	**Definition**: Publisher. **Value range**: N/A
tracker	**Tracker** object	**Definition**: Work item type. **Value range**: N/A
id	Integer	**Definition**: Work item list ID. **Value range**: N/A
start_date	String	**Definition**: Start date of a work item. The value is in timestamp format, for example, **1839340800000**. **Value range**: N/A
assigned_to	**IssueAssignedVO** object	**Definition**: Work item owner. **Value range**: N/A
status_attribute	Object	**Definition**: Work item status. **Value range**: N/A
severity	**Severity** object	**Definition**: Severity. **Value range**: N/A
releaseDev	String	**Definition**: Work item release version number. **Value range**: N/A

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Parameter	Type	Description
author	**IssueAuthorVO** object	**Definition**: Work item owner. **Value range**: N/A
module	Object	**Definition**: Module of a work item. **Value range**: N/A
due_date	String	**Definition**: End date of a work item, in timestamp format, for example, **1839340800000**. **Value range**: N/A
expected_work_hours	Integer	**Definition**: Estimated workloads of a work item (unit: person-hour). **Value range**: N/A
priority	**Priority** object	**Definition**: Priority. **Value range**: N/A
actual_work_hours	Integer	**Definition**: Actual workloads of a work item (unit: person-hour). **Value range**: N/A
is_watcher	Boolean	**Definition**: Favorited or not. **Value range**: **true**: favorited. **false**: not favorited.
deleted	Boolean	**Definition**: Whether to delete. **Value range**: **true**: delete **false**: not delete

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Parameter	Type	Description
fixed_version	Object	**Definition**: Version where the issue is resolved. **Value range**: N/A
is_archived	Boolean	**Definition**: Archived or not. **Value range**: **true**: yes **false**: no.
created_on	String	**Definition**: Work item creation time, in timestamp format, for example, **1839340800000**. **Value range**: N/A
domain	Object	**Definition**: Domain of a work item. **Value range**: N/A
developer	Object	**Definition**: Developer of a work item. **Value range**: N/A
closeder	Object	**Definition**: Closing personnel. **Value range**: N/A
position	String	**Definition**: Position of a work item in the list. **Value range**: N/A
closed_flag	Integer	**Definition**: Closing flag. **Value range**: **0** (enabled) **1** (disabled)

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Parameter	Type	Description
assigned_cc_user	String	**Definition**: Cc recipient of a work item. **Value range**: N/A
custom_value_new	Object	**Definition**: Custom field. **Value range**: N/A
status	**Status** object	**Definition**: Work item status. **Value range**: N/A

Table 4-773 StoryPoint

Parameter	Type	Description
id	Integer	**Definition**: Story point ID. **Value range**: N/A
name	String	**Definition**: Story point name. **Value range**: N/A

Table 4-774 Project

Parameter	Type	Description
identifier	String	**Definition**: Project UUID. **Value range**: N/A
name	String	**Definition**: Project name. **Value range**: N/A

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Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a project. **Value range**: N/A
type	String	**Definition**: Project type. **Value range**: **Scrum**

Table 4-775 Tracker

Parameter	Type	Description
name	String	**Definition**: Type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
id	Integer	**Definition**: Type ID. **Value range**: **2**, **3**, **5**, **6**, and **7**

Table 4-776 IssueAssignedVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A

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Parameter	Type	Description
identifier	String	**Definition**: 32–character UUID of a user. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-777 Severity

Parameter	Type	Description
name	String	**Definition**: Work item severity. **Value range**: **10**: critical **11**: major **12**: minor **13**: trivial
id	Integer	**Definition**: Severity ID. **Value range**: **10**, **11**, **12**, and **13**

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Table 4-778 IssueAuthorVO

Parameter	Type	Description
first_name	String	**Definition**: Username. **Value range**: N/A
last_name	String	**Definition**: Last name of the user. **Value range**: N/A
identifier	String	**Definition**: Unique ID of the author. **Value range**: N/A
image_id	String	**Definition**: User avatar ID. **Value range**: N/A
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A
id	Integer	**Definition**: User ID. **Value range**: N/A

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Table 4-779 Priority

Parameter	Type	Description
name	String	**Definition**: Work item priority. **Value range**: **1**: low **2**: medium **3**: high
id	Integer	**Definition**: Priority ID. **Value range**: **1**, **2**, and **3**

Table 4-780 Status

Parameter	Type	Description
name	String	**Definition**: Status name. **Value range**: **1**: new **2**: developing **3**: resolved **4**: testing **5**: closed **6**: rejected
id	Integer	**Definition**: Status ID. **Value range**: **1**, **2**, **3**, **4**, **5**, and **6**

Example Requests

```
{endpoint}/v3/plan/381fcca9c056482d92da3e8b9da71db5/c573497c87414e97a29444c0054c1361/addable-issues

{
  "subject" : "",
  "page_no" : "1",
  "page_size" : "15"
}
```

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Example Responses

Status code: 200

The successful response of the interface querying the list of work items that can be added to the current plan.


```
{
  "result" : {
    "total_count" : 321,
    "issue_cur_count" : 0,
    "issues" : [ {
      "updated_on" : "1753695191000",
      "subject" : "Another work item",
      "project" : {
        "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
        "name" : "Scrum0610ceshi",
        "id" : 34883337
      },
      "done_ratio" : 0,
      "find_release_dev" : "",
      "tracker" : {
        "name" : "Epic",
        "id" : 5
      },
      "id" : 9191004,
      "start_date" : "1753660800000",
      "assigned_to" : {
        "assigned_nick_name" : "Sam 1",
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "image_id" : "photo01.png",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "status_attribute" : { },
      "severity" : {
        "name" : "Minor",
        "id" : 12
      },
      "release_dev" : "",
      "author" : {
        "name" : "devcloud_devcloud_s00404480_01",
        "last_name" : "devcloud_devcloud_s00404480_01",
        "id" : 4091,
        "image_id" : "photo01.png",
        "first_name" : "devcloud_devcloud_s00404480_01"
      },
      "module" : { },
      "due_date" : "1753747200000",
      "expected_work_hours" : 0,
      "priority" : {
        "name" : "Medium",
        "id" : 2
      },
      "actual_work_hours" : 0,
      "is_watcher" : false,
      "deleted" : false,
      "fixed_version" : { },
      "is_archived" : false,
      "created_on" : "1753695183000",
      "domain" : { },
      "developer" : { },
      "closeder" : { },
      "position" : "9191004.0000000000",
      "closed_flag" : 0,
      "assigned_cc_user" : [ ],
      "custom_value_new" : { },
      "status" : {
```


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```
      "name" : "New",
      "id" : 1
    }
  }, {
    "updated_on" : "1752465766000",
    "subject" : "Work item",
    "project" : {
      "identifier" : "c15cc54e338d4506afd9bd8103071ff0",
      "name" : "Scrum0610ceshi",
      "id" : 34883337
    },
    "done_ratio" : 0,
    "find_release_dev" : "",
    "tracker" : {
      "name" : "Epic",
      "id" : 5
    },
    "id" : 9168625,
    "start_date" : "1752451200000",
    "assigned_to" : {
      "assigned_nick_name" : "Sam 1",
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "status_attribute" : { },
    "severity" : {
      "name" : "Minor",
      "id" : 12
    },
    "release_dev" : "",
    "author" : {
      "name" : "devcloud_devcloud_s00404480_01",
      "last_name" : "devcloud_devcloud_s00404480_01",
      "id" : 4091,
      "image_id" : "photo01.png",
      "first_name" : "devcloud_devcloud_s00404480_01"
    },
    "module" : { },
    "due_date" : "1752537600000",
    "expected_work_hours" : 0,
    "priority" : {
      "name" : "Medium",
      "id" : 2
    },
    "actual_work_hours" : 0,
    "is_watcher" : false,
    "deleted" : false,
    "fixed_version" : { },
    "is_archived" : false,
    "created_on" : "1752465765000",
    "domain" : { },
    "developer" : { },
    "closeder" : { },
    "position" : "9168625.0000000000",
    "closed_flag" : 0,
    "assigned_cc_user" : [ ],
    "custom_value_new" : { },
    "status" : {
      "name" : "New",
      "id" : 1
    }
  } ]
 },
 "status" : "success"
}
```


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Status Codes

Status Code	Description
200	The successful response of the interface querying the list of work items that can be added to the current plan.

Error Codes

See **Error Codes**.

4.10.3.8 Establishing an Association Between a Work Item and a Gantt Chart

Function

This API is used to establish an association between a work item and a Gantt chart.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/plan/{project_id}/{plan_id}/issue

Table 4-781 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Querying the Release/Sprint List** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-782 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-783 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of integers	**Definition**: ID of the work item to be associated with the Gantt chart. **Constraints**: A maximum of 100 work items can be associated.

Response Parameters

Status code: 200

Table 4-784 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status of the response body. **Value range**: **success**: successful **error**: failed

Example Requests

```
{endpoint}//v3/plan/5192de5eb435430c8cd41c6ae6028848/f29c3f16d5f54cbab5e167ef9eed3baf/issue

[ 9192109, 9191020, 9184553, 9185630 ]
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

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Error Codes

See **Error Codes**.

4.10.3.9 Deleting Work Items in the Current Plan in Batches

Function

This API is used to delete work items in the current plan in batches.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v3/plan/{project_id}/{plan_id}/issue

Table 4-785 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
plan_id	Yes	String	**Definition**: Unique ID of a release or sprint. You can obtain the release/sprint ID using the **Querying the Release/Sprint List** API. The value of the **id** field in the response message body is the release/sprint ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-786 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status of the response body. **Value range**: **success**: successful **error**: failed

Example Requests

```
{endpoint}/v3/plan/5192de5eb435430c8cd41c6ae6028848/f29c3f16d5f54cbab5e167ef9eed3baf/issue
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

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Status Codes

Status Code	Description
200	Response body.

Error Codes

See **Error Codes**.

4.11 Work Item Workloads

4.11.1 Querying Detailed Workloads of a User

Function

This API is used to query detailed workloads of a user.

Calling Method

For details, see **Calling APIs**.

URI

POST /v3/work-hours/get-member-work-hours

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Request Parameters

Table 4-787 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints:** Mandatory. **Value range**: Minimum length: 10 characters. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-788 Request body parameters

Parameter	Mandatory	Type	Description
page_no	No	String	**Definition**: Page index. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
page_size	No	String	**Definition**: Page size. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_uuid	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: The value must contain 32 characters. Digits and letters are allowed. **Value range**: N/A **Default value**: N/A
staff_id	No	String	**Definition**: User ID (both the user digital ID and user UUID are supported). You can query user ID information using the **Obtaining the Current User Information** API. The returned **user_id** is the user UUID, and **user_num_id** is the user ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-789 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.

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Parameter	Type	Description
status	String	**Definition**: Returned status. **Value range**: **success**: Command execution succeeds. **error**: Command execution failed.

Table 4-790 result

Parameter	Type	Description
dataList	Array of **dataList** objects	**Definition**: List of workloads of project members.
total	Integer	**Definition**: Total number of workloads in the returned list. **Value range**: N/A

Table 4-791 dataList

Parameter	Type	Description
id	Integer	**Definition**: Digital ID of a work item. **Value range**: N/A
subject	String	**Definition**: Work item title. **Value range**: N/A
summary	String	**Definition**: Workload content. **Value range**: N/A

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Parameter	Type	Description
created_on	String	**Definition**: Creation time in timestamp format, for example, **1747065600000**. **Value range**: N/A
work_date	String	**Definition**: Workload date, in the timestamp format, for example, **1747065600000**. **Value range**: N/A
work_hours	String	**Definition**: Workloads (unit: person-hour). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
assigned_to	**assigned_to** object	**Definition**: Workload creator.
tracker	**Tracker** object	**Definition**: Work item type.

Table 4-792 assigned_to

Parameter	Type	Description
assigned_nick_name	String	**Definition**: User alias. **Value range**: N/A
name	String	**Definition**: Username with tenant information, in the format of Tenant name_Username. **Value range**: N/A

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Parameter	Type	Description
image_id	String	**Definition**: User avatar. **Value range**: N/A
first_name	String	**Definition**: Username. **Value range**: N/A
id	Integer	**Definition**: Digital ID of a user. **Value range**: N/A

Table 4-793 Tracker

Parameter	Type	Description
name	String	**Definition**: Type name. **Value range**: **2** (task) **3** (bug) **5** (epic) **6** (feature) **7** (story)
id	Integer	**Definition**: Type ID. **Value range**: **2**, **3**, **5**, **6**, and **7**

Example Requests

```
POST https://{endpoint}/v3/work-hours/get-member-work-hours

{
  "page_no" : 1,
  "page_size" : 10,
  "project_uuid" : "a8ac165097ff4e42bcfb234dd27d30a6",
  "staff_id" : "1111"
}
```

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Example Responses

Status code: 200

Response to the project member workload list.


```
{
  "result" : {
    "total" : 1,
    "dataList" : [ {
      "work_date" : "1747065600000",
      "created_on" : "1747065600000",
      "subject" : "TEST",
      "work_hours" : 22,
      "tracker" : {
        "name" : "Story",
        "id" : 7
      },
      "id" : 9079052,
      "assigned_to" : {
        "first_name" : "xxxxxx",
        "image_id" : "xxxxxx",
        "assigned_nick_name" : "xxxxxx",
        "name" : "xxxxxx",
        "id" : "1111"
      }
    } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	Response to the project member workload list.

Error Codes

See **Error Codes**.

4.12 IPD Work Item Management

4.12.1 Querying Work Item Details

Function

This API is used to query work item details.

Calling Method

For details, see **Calling APIs**.

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URI

GET /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}

Table 4-794 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Description**: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of **project_id** in the response body is the project ID. **Constraints**: regular expression, ^[A-Za-z0-9]{32}$ **Default value**: N/A
issue_id	Yes	String	**Description**: unique ID of a work item. **Constraints**: regular expression, ^([0-9]{18,19})$ **Default value**: N/A

Table 4-795 Query Parameters

Parameter	Mandatory	Type	Description
issue_type	Yes	String	**Definition**: Work item type. **Constraints**: Minimum length: 1 character. Maximum length: 32 characters. **Range**: **Epic**, **FE**, **SF**, **IR**, **RR**, **SR**, **US**, **AR**, **Bug**, and **Task** **Default value**: N/A

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Parameter	Mandatory	Type	Description
domain_id	No	String	**Definition**: Domain ID of the project. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-796 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-797 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status **Options**: N/A
message	String	**Definition**: Information. **Options**: N/A
result	Array of Map<String,> objects	**Definition**: Query result.

Example Requests

```
/v1/ipdprojectservice/projects/e4b0424709934bd1a54753e70336564d/issues/981935538274476033?issue_type=RR
```

Example Responses

Status code: 200

Success response

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "1135239465657217024",
    "number" : "BUG20250530487304",
    "title" : "Test_bug_Key Issue",
    "type" : "bug",
    "stay_days" : 1,
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "created_date" : "1748591780337"
  } ]
}
```

Status Codes

Status Code	Description
200	Success response

Error Codes

See **Error Codes**.

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4.12.2 Querying Tree-shaped Work Items

Function

This API is used to query tree-shaped work items.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/tree

Table 4-798 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-799 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition**: Work item type. **Constraints**: Regular expression: ([A-Za-z_,]{2,32}) **Options**: For system device projects, the options are **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, the options are **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, the options are **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. Multiple work item types can be supported, which are separated by commas (,), for example, **IR,SR,AR**. **Default value**: N/A

Request Parameters

Table 4-800 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-801 Request body parameters

Parameter	Mandatory	Type	Description
keyword	No	String	**Definition**: Keyword. Fuzzy search by title and exact search by number are supported. **Constraints**: N/A **Options**: N/A **Default value**: N/A
number	No	Array of strings	**Definition**: Query by number. If **number** is specified, **keyword** does not take effect. **Constraints**: N/A
plan	No	Array of **PlanFilterVO** objects	**Definition**: Filter by release and sprint plan criteria. The parameters are the release and sprint plan IDs. The sprint and release plan IDs are subordinate to each other. The value **–2** indicates that no content is set. **Constraints**: N/A
offset	No	Integer	**Definition**: Offset (pagination parameter), which starts from **0** and is an integer multiple of **limit**. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition**: Number of records on each page (pagination parameter). **Constraints**: N/A **Options**: N/A **Default value**: **20**
modified_date	No	**DateFilterVO** object	**Definition**: Last modification time of a work item. **Constraints**: N/A

Table 4-802 PlanFilterVO

Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition**: Release plan ID. The value **–2** indicates that no content is set. You can query the release plan ID by calling the **Querying the Release/Sprint Plan List** API. The **id** in **PlanVO** in the returned parameters is the release plan ID. **Constraints**: Regular expression: ([0-9]{18,19})|(-2) **Value range**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
plan_iteration	No	Array of strings	**Definition**: Sprint plan ID of the release plan. The value **–2** indicates that no sprint is set. ID of the sprint plan when the statistics are collected by sprint plan. You can query the release plan ID by calling the **Querying the Release/Sprint Plan List** API. The **id** in **children** in the returned parameters is the release/sprint ID. **Constraints**: N/A

Table 4-803 DateFilterVO

Parameter	Mandatory	Type	Description
start_date	No	String	**Definition**: Start timestamp of the time filter. The value **–2** indicates that no content is set. **Constraints**: N/A **Options**: N/A **Default value**: N/A
end_date	No	String	**Definition**: End timestamp of the time filter. The value **–2** indicates that no content is set. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Response Parameters

Status code: 200

Table 4-804 Response body parameters

Parameter	Type	Description
result	**IssueEntityPageResult** object	**Definition**: Work item tree diagram API.
status	String	**Definition**: Query status. **Options**: N/A
message	String	**Definition**: Query failure cause. **Options**: N/A

Table 4-805 IssueEntityPageResult

Parameter	Type	Description
issues	Array of **IssueInfoVO** objects	**Definition**: Work item list.
total	Integer	**Definition**: Total number of work items. **Options**: N/A

Table 4-806 IssueInfoVO

Parameter	Type	Description
id	String	**Definition**: ID of the work item to be updated. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
title	String	**Definition**: Work item title. **Value range**: N/A **Default value**: N/A
description	String	**Definition**: Work item description field. **Value range**: N/A **Default value**: N/A
type	String	**Definition**: Broad category of a work item. **Value range**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A
number	String	**Definition**: Work item ID. **Value range**: N/A **Default value**: N/A
category	String	**Definition**: Work item type. **Value range**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A

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Parameter	Type	Description
parent_id	String	**Definition**: Parent work item ID. **Value range**: N/A **Default value**: N/A
project_id	String	**Definition**: 32-character UUID of a project, which must be unique. **Value range**: N/A **Default value**: N/A
status	String	**Definition**: Work item status code. **Value range**: N/A **Default value**: N/A
state	String	**Definition**: Life cycle of a work item. The options are **In use** and **Discarded**. **Value range**: **In use** and **Discarded** **Default value**: N/A
assignee	**UserEntity** object	**Definition**: Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition**: Cc recipient of a work item. Multiple Cc recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition**: Work item creator.

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Parameter	Type	Description
created_time	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
modified_by	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Value range**: N/A **Default value**: N/A
plan_end_date	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Value range**: N/A **Default value**: N/A
close_time	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
workload	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Value range**: 0–999,999,999.9 **Default value**: N/A
workload_sum	String	**Definition**: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0–999,999,999.9. The value cannot be edited. **Constraints**: Minimum length: 0 characters. Maximum length: 11 characters. **Default value**: N/A
tenant_id	String	**Definition**: ID of the tenant to which the work item belongs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Value range**: N/A **Default value**: N/A
link	String	**Definition**: Associated item ID of a work item. Multiple associated items are separated by commas (,). A work item supports a maximum of 50 associated items. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
suspended	Boolean	**Definition**: Whether a work item is suspended. **Value range**: **true** and **false** **Default value**: N/A
status_modified_time	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Value range**: N/A **Default value**: N/A
labels	Array of **LabelEntity** objects	**Definition**: Work item tag.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.
path	String	**Definition**: Path of a child work item. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
ir2feature	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Default value**: N/A
need_break	String	**Definition**: Whether a work item needs to be broken down. This field is available only for work item types that can be broken down. **Value range**: N/A **Default value**: N/A
break_status	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down --: N/A **Value range**: **decomposed**, **undecomposed**, and **--** **Default value**: N/A
baseline	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Value range**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A

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Parameter	Type	Description
priority	String	**Definition**: Work item priority. Some work items have this field. **Value range**: N/A **Default value**: N/A
related_network_security	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Value range**: N/A **Default value**: N/A
collaboratives	String	**Definition**: Collaboration task ID in R&D requirement collaboration information. **Value range**: N/A **Default value**: N/A
business_domain	String	**Definition**: Domain field. **Value range**: N/A **Default value**: N/A
plan_pi	String	**Definition**: Work item release plan ID. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
plan_iteration	String	**Definition**: ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. **Value range**: N/A **Default value**: N/A
change_status	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchanged** or null: unchanged **Value range**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A
no_break_reason	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Value range**: N/A **Default value**: N/A
submitted_by	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
feature_set	String	**Definition**: Feature set ID. **Value range**: N/A **Default value**: N/A
expected_repair_date	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Value range**: N/A **Default value**: N/A
found_pi	String	**Definition**: ID of the release plan where a bug is found. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
found_iteration	String	**Definition**: ID of the sprint plan where a bug is found. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
reason_analysis	String	**Definition**: Cause analysis. This field is available only for bugs. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
repair_solution	String	**Definition**: Fixing solution. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
test_report	String	**Definition**: Test report. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
sys_no_repair_reason	String	**Definition**: Reason why fixing is not required. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
sys_activation_reason	String	**Definition**: Activation reason. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
sys_return_reason	String	**Definition**: Reason for return. This field is available only for bugs. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
test_failures_times	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
close_type	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Value range**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A

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Table 4-807 IssueEntity

Parameter	Type	Description
id	String	**Definition**: ID of the work item to be updated. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
title	String	**Definition**: Work item title. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **title** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
description	String	**Definition**: Work item description. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **description** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
type	String	**Definition**: Broad category of work item. This field is not available when you create or edit a work item. It is used only for display. You can obtain the value of this field from the **type** field in the response body of the **Querying Tree-shaped Work Items** API. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A
number	String	**Definition**: Work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **number** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
category	String	**Definition**: Subcategory of work item. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **category** in the response body. **Constraints**: N/A **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A
parent_id	String	**Definition**: Parent work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **parent_id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
status	String	**Definition**: Work item status code. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **status** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
state	String	**Definition**: Work item lifecycle. The options are **In use** and **Discarded**. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **state** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 8 characters. **Options**: **In use** and **Discarded** **Default value**: N/A
assignee	**UserEntity** object	**Definition**: Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition**: CC recipient of a work item. Multiple CC recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition**: Work item creator.

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Parameter	Type	Description
created_time	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
modified_by	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_end_date	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
close_time	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
workload	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Constraints**: N/A **Options**: 0–999,999,999.9 **Default value**: N/A
workload_sum	String	**Definition**: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0–999,999,999.9. The value cannot be edited. **Constraints**: Minimum length: 0 characters. Maximum length: 11 characters. **Options**: 0–999,999,999.9 **Default value**: N/A

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Parameter	Type	Description
tenant_id	String	**Definition**: ID of the tenant to which the work item belongs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Constraints**: 32 characters. **Value range**: N/A **Default value**: N/A
link	String	**Definition**: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **link** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 2,048 characters. **Options**: N/A **Default value**: N/A
suspended	Boolean	**Definition**: Whether a work item is suspended. **Constraints**: N/A **Options**: **true** and **false** **Default value**: N/A

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Parameter	Type	Description
status_modified_time	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A
labels	Array of **LabelEntity** objects	**Definition**: Work item tag.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.
path	String	**Definition**: Path of a sub-work item. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
ir2feature	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Options**: N/A **Default value**: N/A
need_break	String	**Definition**: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. **Constraints**: N/A **Options**: N/A **Default value**: N/A
break_status	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down **--**: N/A **Constraints**: N/A **Options**: **decomposed**, **undecomposed**, and **--**. **Default value**: N/A

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Parameter	Type	Description
baseline	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Constraints**: N/A **Options**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A
priority	String	**Definition**: Work item priority. Some work items have this field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
related_network_security	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
collaboratives	String	**Definition**: R&D requirement collaboration task ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
business_domain	String	**Definition**: Domain field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_pi	String	**Definition**: Work item release plan ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
plan_iteration	String	**Definition**: ID of the sprint plan in which the work item is completed. For bugs, the value is the ID of the fix sprint plan. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
change_status	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchange** or null: unchanged **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A
no_break_reason	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Constraints**: Minimum length: 0 characters. Maximum length: 512 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
submitted_by	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
feature_set	String	**Definition**: Feature set ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **feature_set** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
expected_repair_date	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
found_pi	String	**Definition**: ID of the release plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
found_iteration	String	**Definition**: ID of the sprint plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
reason_analysis	String	**Definition**: Cause analysis. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
repair_solution	String	**Definition**: Rectification solution. This field is available only for bugs. **Constraints**: Minimum length: 0 characters. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
test_report	String	**Definition**: Test report. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_no_repair_reason	String	**Definition**: Reason why rectification is not required. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_activation_reason	String	**Definition**: Activation reason. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition**: Reason for return. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
test_failures_times	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
close_type	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Constraints**: N/A **Options**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A

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Parameter	Type	Description
plan_owner	**UserEntity** object	**Definition**: Work item planning owner.
doing_owner	**UserEntity** object	**Definition**: Work item implementation owner.
delivered_owner	**UserEntity** object	**Definition**: Work item delivery owner.
checking_owner	**UserEntity** object	**Definition**: Work item acceptance owner.
test_owner	**UserEntity** object	**Definition**: Work item testing owner.
develop_owner	**UserEntity** object	**Definition**: Work item development owner.
processing_owner	**UserEntity** object	**Definition**: Work item processing owner.
fixed_owner	**UserEntity** object	**Definition**: Work item fixing owner.
researchanddevel-op_owner	**UserEntity** object	**Definition**: Work item R&D owner.
analyse_owner	**UserEntity** object	**Definition**: Work item analysis owner.

Table 4-808 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Table 4-809 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition**: Work item field code. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
value	String	**Definition**: Custom field value of a work item. Use commas (,) to separate multiple values. **Constraints**: Minimum length: 0 characters. Maximum length: 10,000 characters. **Options**: N/A **Default value**: N/A

Table 4-810 UserEntity

Parameter	Type	Description
id	String	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **id** in the response message body is the user ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
name	String	**Definition**: Username. **Constraints**: Minimum length: 2 characters. Maximum length: 64 characters. **Options**: N/A **Default value**: N/A
nick_name	String	**Definition**: User alias. **Constraints**: Minimum length: 2 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Table 4-811 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition**: Security level field ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
display_value	String	**Definition**: Security level field name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
value	String	**Definition**: Value of a custom security level field. **Constraints**: N/A **Value range**: N/A **Default value**: N/A value:
code	String	**Definition**: Security level code. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
sequence	Double	**Definition**: Security level sorting value. A larger value indicates a higher security level.

Status code: 400

Table 4-812 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
POST https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/tree?category=IR,US

{
  "keyword" : "IR-",
  "plan" : [ {
    "plan_pi" : "966380919792246785",
    "plan_iteration" : [ "967014561020424192", "-2" ]
  } ],
  "number" : [ "IR20240218102026" ],
  "limit" : 10,
```

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```
  "offset" : 0
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "issues" : [ {
      "category" : "IR",
      "id" : "961308804339843073",
      "title" : "IR-16-Breakdown",
      "type" : "requirement",
      "number" : "IR20240205000401",
      "project_id" : "8e70d806a8f04d018ea6af6b6ffe7b96",
      "status" : "Start",
      "state" : "Working",
      "assignee" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "nick_name" : "Test account"
      },
      "assigned_cc" : [ {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "nick_name" : "Test account"
      } ],
      "created_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "nick_name" : "Test account"
      },
      "created_time" : "1707123479000",
      "modified_by" : {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "nick_name" : "Test account"
      },
      "modified_time" : "1707123480000",
      "workload" : "20.00",
      "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
      "link" : "",
      "status_modified_time" : "1707123480000",
      "custom_fields" : [ {
        "code" : "c7073388365101674496",
        "value" : "881467547473321986"
      }, {
        "code" : "c7148512434669625344",
        "value" : "956591616891461634"
      } ],
      "children" : [ ],
      "ir2feature" : "",
      "need_break" : "yes",
      "break_status" : "undecomposed",
      "priority" : "Medium",
      "related_network_security" : "no",
      "business_domain" : "software",
      "submitted_by" : [ {
        "id" : "a360371833bf4c558f796fd707b44daf",
        "name" : "devcloud_devcloud_s00404480_01",
        "nick_name" : "Test account"
      } ],
      "ir2rr" : "956559072707911681"
    } ],
```

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```
    "total" : 1
  }
}
```

Status code: 400

Error message.

```
{
  "error_code" : "PM.02175000",
  "error_msg" : "System busy. Try again later."
}
```

Status Codes

Status Code	Description
200	OK
400	Error message.

Error Codes

See **Error Codes**.

4.12.3 Updating Work Items in Batches

Function

This API is used to update work items in batches.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1/ipdprojectservice/projects/{project_id}/issues/batch

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Table 4-813 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-814 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-815 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	Array of strings	**Definition**: Array of IDs of the work items to be updated. **Performing Advanced Query of Work Items** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: Minimum length: 18 characters. Maximum length: 19 characters. **Default value**: N/A
attribute	Yes	**IssueEntity** object	**Definition**: Work item updates.

Table 4-816 IssueEntity

Parameter	Mandatory	Type	Description
id	No	String	**Definition**: ID of the work item to be updated. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
title	No	String	**Definition**: Work item title. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **title** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
description	No	String	**Definition**: Work item description. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **description** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
type	No	String	**Definition**: Broad category of work item. This field is not available when you create or edit a work item. It is used only for display. You can obtain the value of this field from the **type** field in the response body of the **Querying Tree-shaped Work Items** API. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A
number	No	String	**Definition**: Work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **number** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
category	Yes	String	**Definition**: Subcategory of work item. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **category** in the response body. **Constraints**: N/A **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A
parent_id	No	String	**Definition**: Parent work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **parent_id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
project_id	No	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
status	No	String	**Definition**: Work item status code. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **status** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
assignee	No	**UserEntity** object	**Definition**: Work item owner.
assigned_cc	No	Array of **UserEntity** objects	**Definition**: CC recipient of a work item. Multiple CC recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	No	**UserEntity** object	**Definition**: Work item creator.

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Parameter	Mandatory	Type	Description
created_time	No	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
modified_by	No	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	No	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_end_date	No	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
close_time	No	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
workload	No	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Constraints**: N/A **Options**: 0–999,999,999.9 **Default value**: N/A
link	No	String	**Definition**: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **link** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 2,048 characters. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
suspended	No	Boolean	**Definition**: Whether a work item is suspended. **Constraints**: N/A **Options**: **true** and **false** **Default value**: N/A
status_modified_time	No	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A
labels	No	Array of **LabelEntity** objects	**Definition**: Work item tag.
custom_fields	No	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	No	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.

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Parameter	Mandatory	Type	Description
ir2feature	No	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Options**: N/A **Default value**: N/A
need_break	No	String	**Definition**: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. **Constraints**: N/A **Options**: N/A **Default value**: N/A
break_status	No	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down **--**: N/A **Constraints**: N/A **Options**: **decomposed**, **undecomposed**, and **--**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
baseline	No	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Constraints**: N/A **Options**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A
priority	No	String	**Definition**: Work item priority. Some work items have this field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
related_network_security	No	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
collaboratives	No	String	**Definition**: R&D requirement collaboration task ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
business_domain	No	String	**Definition**: Domain field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_pi	No	String	**Definition**: Work item release plan ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
plan_iteration	No	String	**Definition**: ID of the sprint plan in which the work item is completed. For bugs, the value is the ID of the fix sprint plan. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
change_status	No	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchange** or null: unchanged **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A

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Parameter	Mandatory	Type	Description
no_break_reason	No	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Constraints**: Minimum length: 0 characters. Maximum length: 512 characters. **Options**: N/A **Default value**: N/A
submitted_by	No	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	No	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
feature_set	No	String	**Definition**: Feature set ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **feature_set** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
expected_repair_date	No	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A
found_pi	No	String	**Definition**: ID of the release plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
found_iteration	No	String	**Definition**: ID of the sprint plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
reason_analysis	No	String	**Definition**: Cause analysis. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
repair_solution	No	String	**Definition**: Rectification solution. This field is available only for bugs. **Constraints**: Minimum length: 0 characters. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
test_report	No	String	**Definition**: Test report. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_no_repair_reason	No	String	**Definition**: Reason why rectification is not required. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_activation_reason	No	String	**Definition**: Activation reason. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_return_reason	No	String	**Definition**: Reason for return. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
test_failures_times	No	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
close_type	No	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Constraints**: N/A **Options**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A
plan_owner	No	**UserEntity** object	**Definition**: Work item planning owner.
doing_owner	No	**UserEntity** object	**Definition**: Work item implementation owner.
delivered_owner	No	**UserEntity** object	**Definition**: Work item delivery owner.

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Parameter	Mandatory	Type	Description
checking_owner	No	**UserEntity** object	**Definition**: Work item acceptance owner.
test_owner	No	**UserEntity** object	**Definition**: Work item testing owner.
develop_owner	No	**UserEntity** object	**Definition**: Work item development owner.
processing_owner	No	**UserEntity** object	**Definition**: Work item processing owner.
fixed_owner	No	**UserEntity** object	**Definition**: Work item fixing owner.
researchanddevelop_owner	No	**UserEntity** object	**Definition**: Work item R&D owner.
analyse_owner	No	**UserEntity** object	**Definition**: Work item analysis owner.

Table 4-817 LabelEntity

Parameter	Mandatory	Type	Description
id	No	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
label_type	No	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	No	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A
title	No	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Table 4-818 FieldCodeValuePair

Parameter	Mandatory	Type	Description
code	No	String	**Definition**: Work item field code. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
value	No	String	**Definition**: Custom field value of a work item. Use commas (,) to separate multiple values. **Constraints**: Minimum length: 0 characters. Maximum length: 10,000 characters. **Options**: N/A **Default value**: N/A

Table 4-819 UserEntity

Parameter	Mandatory	Type	Description
id	No	String	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **id** in the response message body is the user ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Username. **Constraints**: Minimum length: 2 characters. Maximum length: 64 characters. **Options**: N/A **Default value**: N/A
nick_name	No	String	**Definition**: User alias. **Constraints**: Minimum length: 2 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-820 Response body parameters

Parameter	Type	Description
result	Array of **IssueBatchOperateEntitiesResult** objects	**Definition**: Result of batch editing.
status	String	**Definition**: Operation status. **Options**: N/A

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Parameter	Type	Description
message	String	**Definition**: Operation failure cause. **Options**: N/A

Table 4-821 IssueBatchOperateEntitiesResult

Parameter	Type	Description
success	Array of **IssueOperateResult** objects	**Definition**: Success result.
failed	Array of **IssueOperateResult** objects	**Definition**: Failure result.

Table 4-822 IssueOperateResult

Parameter	Type	Description
id	String	**Definition**: ID of the changed work item. **Options**: N/A
operator	String	**Definition**: ID of the person who changes the work item. **Options**: N/A
state	String	**Definition**: Lifecycle status after the work item changes. **Options**: N/A
operate_time	String	**Definition**: Work item change time. **Options**: N/A

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Status code: 400

Table 4-823 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Updating R&D Requirements in Batches

```
PUT https://{endpoint}/v1/ipdprojectservice/projects/8e70d806a8f04d018ea6af6b6ffe7b96/issues/batch

{
  "id" : [ "957294446158852096", "957315051394478080" ],
  "attribute" : {
    "category" : "IR",
    "priority" : "Low",
    "submitted_by" : [ {
      "id" : "a360371833bf4c558f796fd707b44daf"
    } ],
    "labels" : [ {
      "id" : "956308025419804673"
    }, {
      "id" : "956308025419804673"
    } ],
    "custom_fields" : [ {
      "code" : "c7073388365101674496",
      "value" : "881467547473321986,881467547473321987"
    }, {
      "code" : "c7148504958125613056",
      "value" : "Custom field of a project."
    }, {
      "code" : "module",
      "value" : "956584293264568320"
    }, {
      "code" : "c7148512434669625344",
      "value" : "956591616891461634"
    } ]
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "result" : [ {
    "success" : [ {
      "id" : "957294446158852096",
      "operator" : "a360371833bf4c558f796fd707b44daf",
      "operate_time" : "2024-01-29T21:26:11Z"
    }, {
      "id" : "957315051394478080",
      "operator" : "a360371833bf4c558f796fd707b44daf",
      "operate_time" : "2024-01-29T21:26:11Z"
    } ],
```

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```
    "failed" : [ ]
  } ]
}
```

Status code: 400

Error cause.

```
{
  "error_code" : "PM.02175000",
  "error_msg" : "System busy. Try again later."
}
```

Status Codes

Status Code	Description
200	OK
400	Error cause.

Error Codes

See **Error Codes**.

4.12.4 Querying Work Item Details V2

Function

This API is used to query work item details. Only basic information about the work item is returned. Associated work items and child work items are not returned.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/ipdprojectservice/projects/{project_id}/issues/{issue_id}

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Table 4-824 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A
issue_id	Yes	String	**Description**: unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Default value**: N/A

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Table 4-825 Query Parameters

Parameter	Mandatory	Type	Description
category	Yes	String	**Definition**: Work item type. **Constraints**: N/A **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-826 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Request status. **Options**: N/A
message	String	**Definition**: Request return information. **Value range**: N/A
data	**IssueInfoVO** object	**Definition**: Work item details.

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Table 4-827 IssueInfoVO

Parameter	Type	Description
id	String	**Definition**: ID of the work item to be updated. **Value range**: N/A **Default value**: N/A
title	String	**Definition**: Work item title. **Value range**: N/A **Default value**: N/A
description	String	**Definition**: Work item description field. **Value range**: N/A **Default value**: N/A
type	String	**Definition**: Broad category of a work item. **Value range**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A
number	String	**Definition**: Work item ID. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
category	String	**Definition**: Work item type. **Value range**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A
parent_id	String	**Definition**: Parent work item ID. **Value range**: N/A **Default value**: N/A
project_id	String	**Definition**: 32-character UUID of a project, which must be unique. **Value range**: N/A **Default value**: N/A
status	String	**Definition**: Work item status code. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
state	String	**Definition**: Life cycle of a work item. The options are **In use** and **Discarded**. **Value range**: **In use** and **Discarded** **Default value**: N/A
assignee	**UserEntity** object	**Definition**: Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition**: Cc recipient of a work item. Multiple Cc recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition**: Work item creator.
created_time	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Value range**: N/A **Default value**: N/A
modified_by	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
plan_end_date	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Value range**: N/A **Default value**: N/A
close_time	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Value range**: N/A **Default value**: N/A
workload	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Value range**: 0–999,999,999.9 **Default value**: N/A
workload_sum	String	**Definition**: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0–999,999,999.9. The value cannot be edited. **Constraints**: Minimum length: 0 characters. Maximum length: 11 characters. **Default value**: N/A

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Parameter	Type	Description
tenant_id	String	**Definition**: ID of the tenant to which the work item belongs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Value range**: N/A **Default value**: N/A
link	String	**Definition**: Associated item ID of a work item. Multiple associated items are separated by commas (,). A work item supports a maximum of 50 associated items. **Value range**: N/A **Default value**: N/A
suspended	Boolean	**Definition**: Whether a work item is suspended. **Value range**: **true** and **false** **Default value**: N/A
status_modified_time	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Value range**: N/A **Default value**: N/A
labels	Array of **LabelEntity** objects	**Definition**: Work item tag.

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Parameter	Type	Description
custom_fields	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.
path	String	**Definition**: Path of a child work item. **Value range**: N/A **Default value**: N/A
ir2feature	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Default value**: N/A
need_break	String	**Definition**: Whether a work item needs to be broken down. This field is available only for work item types that can be broken down. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
break_status	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down --: N/A **Value range**: **decomposed**, **undecomposed**, and **--** **Default value**: N/A
baseline	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Value range**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A
priority	String	**Definition**: Work item priority. Some work items have this field. **Value range**: N/A **Default value**: N/A
related_network_security	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
collaboratives	String	**Definition**: Collaboration task ID in R&D requirement collaboration information. **Value range**: N/A **Default value**: N/A
business_domain	String	**Definition**: Domain field. **Value range**: N/A **Default value**: N/A
plan_pi	String	**Definition**: Work item release plan ID. **Value range**: N/A **Default value**: N/A
plan_iteration	String	**Definition**: ID of the sprint plan in which the work item is completed. The field is the fixing sprint plan ID for bugs. **Value range**: N/A **Default value**: N/A
change_status	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchanged** or null: unchanged **Value range**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A

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Parameter	Type	Description
no_break_reason	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Value range**: N/A **Default value**: N/A
submitted_by	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Value range**: N/A **Default value**: N/A
feature_set	String	**Definition**: Feature set ID. **Value range**: N/A **Default value**: N/A
expected_repair_date	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
found_pi	String	**Definition**: ID of the release plan where a bug is found. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
found_iteration	String	**Definition**: ID of the sprint plan where a bug is found. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
reason_analysis	String	**Definition**: Cause analysis. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
repair_solution	String	**Definition**: Fixing solution. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
test_report	String	**Definition**: Test report. This field is available only for bugs. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
sys_no_repair_reason	String	**Definition**: Reason why fixing is not required. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
sys_activation_reason	String	**Definition**: Activation reason. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
sys_return_reason	String	**Definition**: Reason for return. This field is available only for bugs. **Value range**: N/A **Default value**: N/A
test_failures_times	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
close_type	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Value range**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A

Table 4-828 IssueEntity

Parameter	Type	Description
id	String	**Definition**: ID of the work item to be updated. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
title	String	**Definition**: Work item title. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **title** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
description	String	**Definition**: Work item description. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **description** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
type	String	**Definition**: Broad category of work item. This field is not available when you create or edit a work item. It is used only for display. You can obtain the value of this field from the **type** field in the response body of the **Querying Tree-shaped Work Items** API. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A

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Parameter	Type	Description
number	String	**Definition**: Work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **number** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: N/A **Default value**: N/A
category	String	**Definition**: Subcategory of work item. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **category** in the response body. **Constraints**: N/A **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A
parent_id	String	**Definition**: Parent work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **parent_id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A
status	String	**Definition**: Work item status code. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **status** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
state	String	**Definition**: Work item lifecycle. The options are **In use** and **Discarded**. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **state** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 8 characters. **Options**: **In use** and **Discarded** **Default value**: N/A
assignee	**UserEntity** object	**Definition**: Work item owner.

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Parameter	Type	Description
assigned_cc	Array of **UserEntity** objects	**Definition**: CC recipient of a work item. Multiple CC recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition**: Work item creator.
created_time	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
modified_by	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_end_date	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
close_time	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
workload	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Constraints**: N/A **Options**: 0–999,999,999.9 **Default value**: N/A
workload_sum	String	**Definition**: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0–999,999,999.9. The value cannot be edited. **Constraints**: Minimum length: 0 characters. Maximum length: 11 characters. **Options**: 0–999,999,999.9 **Default value**: N/A

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Parameter	Type	Description
tenant_id	String	**Definition**: ID of the tenant to which the work item belongs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Constraints**: 32 characters. **Value range**: N/A **Default value**: N/A
link	String	**Definition**: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **link** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 2,048 characters. **Options**: N/A **Default value**: N/A
suspended	Boolean	**Definition**: Whether a work item is suspended. **Constraints**: N/A **Options**: **true** and **false** **Default value**: N/A

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Parameter	Type	Description
status_modified_time	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A
labels	Array of **LabelEntity** objects	**Definition**: Work item tag.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.
path	String	**Definition**: Path of a sub-work item. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
ir2feature	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Options**: N/A **Default value**: N/A
need_break	String	**Definition**: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. **Constraints**: N/A **Options**: N/A **Default value**: N/A
break_status	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down **--**: N/A **Constraints**: N/A **Options**: **decomposed**, **undecomposed**, and **--**. **Default value**: N/A

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Parameter	Type	Description
baseline	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Constraints**: N/A **Options**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A
priority	String	**Definition**: Work item priority. Some work items have this field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
related_network_security	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
collaboratives	String	**Definition**: R&D requirement collaboration task ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
business_domain	String	**Definition**: Domain field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_pi	String	**Definition**: Work item release plan ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
plan_iteration	String	**Definition**: ID of the sprint plan in which the work item is completed. For bugs, the value is the ID of the fix sprint plan. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
change_status	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchange** or null: unchanged **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A
no_break_reason	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Constraints**: Minimum length: 0 characters. Maximum length: 512 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
submitted_by	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
feature_set	String	**Definition**: Feature set ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **feature_set** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
expected_repair_date	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
found_pi	String	**Definition**: ID of the release plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
found_iteration	String	**Definition**: ID of the sprint plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
reason_analysis	String	**Definition**: Cause analysis. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
repair_solution	String	**Definition**: Rectification solution. This field is available only for bugs. **Constraints**: Minimum length: 0 characters. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
test_report	String	**Definition**: Test report. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_no_repair_reason	String	**Definition**: Reason why rectification is not required. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_activation_reason	String	**Definition**: Activation reason. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition**: Reason for return. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
test_failures_times	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
close_type	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Constraints**: N/A **Options**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A

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Parameter	Type	Description
plan_owner	**UserEntity** object	**Definition**: Work item planning owner.
doing_owner	**UserEntity** object	**Definition**: Work item implementation owner.
delivered_owner	**UserEntity** object	**Definition**: Work item delivery owner.
checking_owner	**UserEntity** object	**Definition**: Work item acceptance owner.
test_owner	**UserEntity** object	**Definition**: Work item testing owner.
develop_owner	**UserEntity** object	**Definition**: Work item development owner.
processing_owner	**UserEntity** object	**Definition**: Work item processing owner.
fixed_owner	**UserEntity** object	**Definition**: Work item fixing owner.
researchanddevel-op_owner	**UserEntity** object	**Definition**: Work item R&D owner.
analyse_owner	**UserEntity** object	**Definition**: Work item analysis owner.

Table 4-829 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Table 4-830 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition**: Work item field code. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
value	String	**Definition**: Custom field value of a work item. Use commas (,) to separate multiple values. **Constraints**: Minimum length: 0 characters. Maximum length: 10,000 characters. **Options**: N/A **Default value**: N/A

Table 4-831 UserEntity

Parameter	Type	Description
id	String	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **id** in the response message body is the user ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
name	String	**Definition**: Username. **Constraints**: Minimum length: 2 characters. Maximum length: 64 characters. **Options**: N/A **Default value**: N/A
nick_name	String	**Definition**: User alias. **Constraints**: Minimum length: 2 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Table 4-832 SecurityLevelResult

Parameter	Type	Description
id	String	**Definition**: Security level field ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
display_value	String	**Definition**: Security level field name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

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Parameter	Type	Description
value	String	**Definition**: Value of a custom security level field. **Constraints**: N/A **Value range**: N/A **Default value**: N/A value:
code	String	**Definition**: Security level code. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
sequence	Double	**Definition**: Security level sorting value. A larger value indicates a higher security level.

Example Requests

Querying R&D requirement details

```
https://{endpoint}/v2/ipdprojectservice/projects/ce075137bdb74086a700ce80dfd5f08a/issues/1027299517722046465?category=IR
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : null,
  "data" : {
    "id" : "1027299517722046465",
    "title" : "11111",
    "description" : "<p>[Requirement background]</p><p><br></p>[Requirement value]</p> <p><br></p><p>[Requirement details]</p>",
    "type" : "requirement",
    "number" : "IR20240805197935",
    "category" : "IR",
    "project_id" : "ce075137bdb74086a700ce80dfd5f08a",
    "status" : "Start",
    "state" : "Working",
```

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```
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test alias"
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test alias"
    },
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test alias"
    },
    "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
    "link" : "",
    "labels" : [ ],
    "custom_fields" : [ ],
    "path" : "/1027299517722046465",
    "ir2feature" : "",
    "need_break" : "yes",
    "break_status" : "decomposed",
    "priority" : "Medium",
    "related_network_security" : "no",
    "business_domain" : "software",
    "submitted_by" : [ {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test alias"
    } ],
    "ir2rr" : "1027242599229992961"
  }
}
```


Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.12.5 Querying the Work Item List

Function

This API is used to query the work item list.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/query

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Table 4-833 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-834 Query Parameters

Parameter	Mandatory	Type	Description
issue_type	Yes	String	**Definition**: Work item type, which is case sensitive. If an incorrect work item type is transferred, no data is returned. For system device and standalone software projects, if **issue_type** is set to a work item type without parent-child relationship, only the data of the first work item type is returned. **Constraints**: Multiple values are supported. Use commas (,) to separate them. **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A

Request Parameters

Table 4-835 Request body parameters

Parameter	Mandatory	Type	Description
filter	No	Array of Map<String,**ConditionVO**> objects	**Definition**: Query filter. **Constraints**: Maximum length: 200 characters.

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Parameter	Mandatory	Type	Description
filter_mode	No	String	**Definition**: Filter mode. **Constraints**: Maximum length: 512 characters. **Options**: N/A **Default value**: N/A
page	No	**PageInfoVO** object	**Definition**: Pagination information. **Constraints**: N/A
sort	No	Array of **SortInfo** objects	**Definition**: Sorting criteria. **Constraints**: N/A
return_fields	No	Array of strings	**Definition**: Returned field. **Constraints**: N/A
model_ids	No	Array of strings	**Definition**: Model ID. **Value range**: **10001**: system device **10002**: standalone software **10003**: self-operated software/ cloud service **Constraints**: N/A

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Table 4-836 ConditionVO

Parameter	Mandatory	Type	Description
values	No	Array of strings	**Definition**: Condition array. **Constraints**: Maximum length: 200 characters.
operator	No	String	**Definition**: Operator. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-837 PageInfoVO

Parameter	Mandatory	Type	Description
page_no	No	Integer	**Definition**: Page index. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **10,000**. **Default value**: N/A
page_size	No	Integer	**Definition**: Number of records displayed on each page **Constraints**: N/A **Options**: Minimum value: **5**. Maximum value: **200**. **Default value**: N/A

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Table 4-838 SortInfo

Parameter	Mandatory	Type	Description
field	No	String	**Definition**: Sorting field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
asc	No	Boolean	**Definition**: Whether the data is sorted by ascending order. **Constraints**: N/A **Options**: **true**: yes **false**: no **Default value**: N/A

Response Parameters

Status code: 200

Table 4-839 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status. **Options**: N/A
message	String	**Definition**: Information. **Options**: N/A
result	Map<String,Object>	**Definition**: Result data.

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Status code: 400

Table 4-840 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
Post https://{endpoint}/v1/ipdprojectservice/projects/{project_id}/issues/query?issue_type=IR,US

{
  "filter" : [ {
    "descendants.plan_pi" : {
      "values" : [ "956200745322848257" ],
      "operator" : "||"
    },
    "descendants.plan_iteration" : {
      "values" : [ "956200745322848257-child" ],
      "operator" : "||"
    }
  }, {
    "descendants.priority" : {
      "values" : [ "Medium" ],
      "operator" : "||"
    }
  }, {
    "descendants.assignee" : {
      "values" : [ "a360371833bf4c558f796fd707b44daf" ],
      "operator" : "||"
    }
  }, {
    "descendants.status" : {
      "values" : [ "Start" ],
      "operator" : "||"
    }
  }, {
    "parent_id" : {
      "values" : [ "" ],
      "operator" : "||"
    }
  } ],
  "page" : {
    "page_no" : 1,
    "page_size" : 20
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "total" : 1,
    "issues" : [ {
      "promised" : null,
```

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```
  "type" : "raw requirement",
  "src_domain" : {
    "id" : "965714701520515072",
    "name" : "IPD-System Device-0217",
    "title" : "IPD-System Device-0217",
    "project_id" : "e4b0424709934bd1a54753e70336564d",
    "parent_id" : null,
    "category" : "Project",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "model_id" : "10001"
  },
  "domain_id" : {
    "id" : "965714701520515072",
    "name" : "IPD-System Device-0217",
    "title" : "IPD-System Device-0217",
    "project_id" : "e4b0424709934bd1a54753e70336564d",
    "parent_id" : null,
    "category" : "Project",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "model_id" : "10001"
  },
  "send_from" : "",
  "number" : "RR20240402742063",
  "send_to" : "",
  "convolution_actual_hours" : null,
  "workload_man_day" : null,
  "id" : "981935538274476033",
  "state" : "Working",
  "stay_days" : 1,
  "assigned_cc" : null,
  "submit_time" : "1712041275000",
  "workitem2label" : null,
  "close_time" : null,
  "priority" : {
    "id" : "965714705672876036",
    "display_value" : "Medium",
    "value" : "Medium",
    "code" : "Medium",
    "value_py" : "2",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "965714701520515072",
    "belong_definition_type" : "5"
  },
  "modified_date" : "1712041276000",
  "created_by" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_s00404480_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_s00404480_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator, Project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  },
  "break_status" : {
    "id" : "965714705672876041",
    "display_value" : "Not broken down",
    "value" : "undecomposed",
    "code" : "undecomposed",
    "value_py" : "undecomposed",
    "sequence" : 2,
    "level" : 1,
    "domain_id" : "965714701520515072",
```


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```
    "belong_definition_type" : "5"
  },
  "status_modified_date" : "1712041276000",
  "canceled" : null,
  "expect_delivery_time" : null,
  "parent_id" : null,
  "assignee" : {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_s00404480_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_s00404480_01",
    "nick_name" : "Test account",
    "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
    "role_name" : "Project administrator, Project manager",
    "role_code" : "project_admin,Project manager",
    "image_id" : null,
    "region" : null,
    "has_removed" : null
  },
  "region" : "region01",
  "status" : {
    "id" : "965714705815482388",
    "belonging" : "START",
    "space_id" : "965714701520515072",
    "name" : "Analyzing",
    "status_category" : null,
    "code" : "Analyse",
    "definition_type" : "5",
    "belong_definition_type" : 3,
    "belong_scope" : null,
    "display_value" : "Analyzing",
    "position" : 2,
    "displayable" : 1,
    "editable" : 1,
    "deletable" : 1,
    "mutable" : 1,
    "title_py" : "fx",
    "builtin" : null,
    "label" : null,
    "description" : null,
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_userinfo" : null,
    "created_on" : null,
    "created_date" : 1708202727000,
    "modified_date" : 1708202727000,
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "category_code" : null,
    "editing_fields" : null,
    "associate" : null,
    "linkage_node_fields" : false
  },
  "tenant_id" : "4e919d73499648e3b0292cd3cbef806a",
  "link" : "",
  "is_suspended" : null,
  "change_status" : null,
  "title" : "RR-01",
  "sum_workload_man_day" : null,
  "plan_end_date" : null,
  "rr2ir" : "",
  "convolution_plan_hours" : null,
  "submitted_by" : [ {
    "watcher" : null,
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_num_id" : 4091,
    "user_name" : "devcloud_devcloud_s00404480_01",
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "devcloud_devcloud_s00404480_01",
```


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```
      "nick_name" : "Test account",
      "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
      "role_name" : "Project administrator, Project manager",
      "role_code" : "project_admin,Project manager",
      "image_id" : null,
      "region" : null,
      "has_removed" : null
    } ],
    "rr2us" : "",
    "cascade_delete" : "none",
    "recipient" : [ {
      "watcher" : null,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : 4091,
      "user_name" : "devcloud_devcloud_s00404480_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test account",
      "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
      "role_name" : "Project administrator, Project manager",
      "role_code" : "project_admin,Project manager",
      "image_id" : null,
      "region" : null,
      "has_removed" : null
    } ],
    "modified_by" : {
      "watcher" : null,
      "user_id" : "a360371833bf4c558f796fd707b44daf",
      "user_num_id" : 4091,
      "user_name" : "devcloud_devcloud_s00404480_01",
      "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
      "domain_name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test account",
      "role_id" : "8dc2cd191a104148a77f937681f9a5d6,6af50476ba89492698d237fb6fa456d6",
      "role_name" : "Project administrator, Project manager",
      "role_code" : "project_admin,Project manager",
      "image_id" : null,
      "region" : null,
      "has_removed" : null
    },
    "created_date" : "1712041275000",
    "closed_flag" : null,
    "category" : "RR",
    "collaborative_status" : [ ],
    "setup" : true,
    "parent_status" : "no"
  } ]
 }
}
```


Status Codes

Status Code	Description
200	OK
400	Error message.

Error Codes

See **Error Codes**.

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4.13 IPD Field Template Management

4.13.1 Querying Field Templates

Function

This API is used to query field templates by work item type.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/categories/{category_id}/field/templates

Table 4-841 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Description**: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of **project_id** in the response body is the project ID. **Constraints**: regular expression, ^[A-Za-z0-9]{32}$ **Default value**: N/A

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Parameter	Mandatory	Type	Description
category_id	Yes	String	**Definition**: 5-digit ID of the work item type. **Constraints**: Regular expression: ^[\d]{5} **Options**: IPD-system device: **10021** (RR), **10065** (SF), **10020** (IR), **10022** (SR), **10029** (AR), **10027** (task), and **10033** (bug) IPD-standalone software: **10021** (RR), **10065** (SF), **10020** (IR), **10023** (US), **10027** (task), and **10033** (bug) IPD-self-operated software/ cloud service: **10001** (epic), **10028** (FE), **10021** (RR), **10023** (US), **10027** (task), and **10033** (bug) **Default value**: N/A

Table 4-842 Query Parameters

Parameter	Mandatory	Type	Description
page	Yes	Integer	**Definition**: Page number. **Constraints**: Regular expression: ^(100|[1-9][0-9]?|1) **Value range**: [1, 100] **Default value**: N/A

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Parameter	Mandatory	Type	Description
size	Yes	Integer	**Definition**: Number of records on each page. **Constraints**: Regular expression: ^(1000|[1-9][0-9]{1,2}|10) **Value range**: [10, 1000] **Default value**: N/A

Request Parameters

Table 4-843 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-844 Response body parameters

Parameter	Type	Description
page	**PageVO** object	**Description**: pagination information.

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Parameter	Type	Description
result	Array of **FieldVO** objects	**Description**: returned data.

Table 4-845 PageVO

Parameter	Type	Description
page	String	**Definition**: Current page. **Options**: N/A
size	String	**Definition**: Number of records on each page. **Options**: N/A
count	String	**Definition**: Total number of data records. **Options**: N/A

Table 4-846 FieldVO

Parameter	Type	Description
display_name	String	**Definition**: Field name. **Options**: N/A
created_by	String	**Definition**: Field creator. **Options**: N/A
field_type	String	**Definition**: Field type. **Options**: N/A

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Parameter	Type	Description
show_on_card	Boolean	**Definition**: Whether to display on the creation page. **Options**: **true** (yes) and **false** (no)
optional	Boolean	**Definition**: Mandatory or not. **Options**: **true** (mandatory) and **false** (optional)
all_options	Array of **OptionEntity** objects	**Definition**: Field options. **Options**: N/A
default_value	String	**Definition**: Default value. **Options**: N/A

Table 4-847 OptionEntity

Parameter	Type	Description
id	String	**Definition**: Option ID. **Options**: N/A
code	String	**Definition**: Code value of an option. **Options**: N/A
display_value	String	**Definition**: Option display name. **Options**: N/A

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Parameter	Type	Description
value	String	**Definition**: Unique option ID. **Options**: N/A
level	Integer	**Definition**: Number of option levels. **Options**: The maximum number of levels is 4.
sequence	Integer	**Definition**: Option sequence. **Options**: N/A
parent_id	String	**Definition**: Parent option ID. **Options**: N/A

Example Requests

```
GEThttps://{endpoint}/v1/ipdprojectservice/projects/05c7d8bcf3db4829bc841e4ba93aaea5/categories/10021/field/templates?page=1&size=10
```

Example Responses

Status code: 200

Success response.

```
{
  "page" : {
    "page" : 1,
    "size" : 10,
    "count" : 15
  },
  "result" : [ {
    "display_name" : "Priority",
    "created_by" : "System",
    "field_type" : "pick",
    "show_on_card" : false,
    "optional" : true,
    "all_options" : [ {
      "id" : "1135144056192544813",
      "code" : "High",
      "display_value" : "High",
      "value" : "High",
      "level" : 1,
      "sequence" : 1
    } ],
    "default_value" : ""
```

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```
 }]
}
```

Status Codes

Status Code	Description
200	Success response.

Error Codes

See **Error Codes**.

4.14 IPD Work Item Process

4.14.1 Transitioning the Work Item Status

Function

This API is used to transition the status of a work item.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-item/flow/transfer

Table 4-848 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Description**: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of **project_id** in the response body is the project ID. **Constraints**: regular expression, ^[A-Za-z0-9]{32}$ **Default value**: N/A

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Request Parameters

Table 4-849 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Table 4-850 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition**: Unique ID of a work item. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
issue_category	Yes	String	**Definition**: Work item type. **Constraints**: Regular expression: ^(RR|IR|AR|SR|Bug|FE|Task|US|Epic|SF) **Options**: **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default value**: N/A
flow_code	Yes	String	**Definition**: Work item transition code. **Constraints**: Regular expression: ^[\s\S]{1,500} **Options**: N/A **Default value**: N/A

Response Parameters

Status code: 200

Table 4-851 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status code. **Options**: N/A
message	String	**Definition**: Response message. **Options**: N/A

Example Requests

```
POST /v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/work-item/flow/transfer
```

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```
{
  "id" : "1135239465657217024",
  "issue_category" : "Bug",
  "flow_code" : "__virtual_Analyse__2__Fixed"
}
```

Example Responses

Status code: 200

Success response.

```
{
  "status" : "success",
  "message" : null
}
```

Status Codes

Status Code	Description
200	Success response.

Error Codes

See **Error Codes**.

4.15 IPD Workload Management

4.15.1 Querying the Work Hour List Based on Criteria (Pagination)

Function

This API is used to query the workload list by condition.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/work-hour/query

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Table 4-852 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-853 Request body parameters

Parameter	Mandatory	Type	Description
params	Yes	**WorkHourParamVO** object	**Definition**: Condition input parameter.
page_info	Yes	**RequestPageInfoVO** object	**Definition**: Pagination parameter.

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Table 4-854 WorkHourParamVO

Parameter	Mandatory	Type	Description
plan_pi	No	Array of strings	**Definition**: Array of release plan IDs, which can be obtained using the **Querying the Release/Sprint Plan Details** API. The value of the **id** field in the response message body is the release plan ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_iteration	No	Array of strings	**Definition**: Array of sprint plan IDs, which can be obtained using the **Querying the Release/Sprint Plan Details** API. The value of the **id** field in the response message body is the sprint plan ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A
workitem_id	No	Array of strings	**Definition**: Array of work item IDs, which can be obtained using the **Querying Work Item Details** API. The value of the **id** field in the response message body is the work item ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
created_by	No	Array of strings	**Definition**: Creator ID array. You can obtain the value using the **Obtaining the Current User Information** API. The value of **user_id** in the response message body is the creator ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

Table 4-855 RequestPageInfoVO

Parameter	Mandatory	Type	Description
offset	Yes	String	**Definition**: Offset. **Constraints**: Minimum value: **0**. **Options**: Minimum value: **0**. **Default value**: Default value: **0**.
limit	Yes	String	**Definition**: Number of records displayed on each page. The maximum value is **200**. **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **200**. **Default value**: N/A

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Response Parameters

Status code: 200

Table 4-856 Response body parameters

Parameter	Type	Description
status	String	Response status.
message	String	Response body message.
result	Array of **WorkHourInfoVO** objects	Returned data.
page	**PageVO** object	Pagination information.

Table 4-857 WorkHourInfoVO

Parameter	Type	Description
workitem	**workitem** object	**Definition**: Work item information.
work_date	String	**Definition**: Work date, which is a Unix timestamp (unit: millisecond). **Options**: N/A
created_by	**UserEntity** object	**Definition**: Creator information.
work_hour_category	String	**Definition**: Unique ID of the work type. If the value is set to **value**, the value displayed on the page is **display_value**. **Options**: N/A
work_hours	String	**Definition**: Workloads. **Options**: N/A

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Table 4-858 workitem

Parameter	Type	Description
plan_pi	String	**Definition**: Release plan ID. **Options**: N/A
sum_workload_man_day	String	**Definition**: Actual workloads. **Options**: N/A
workload_man_day	String	**Definition**: Planned workloads. **Options**: N/A
convolution_plan_hours	String	**Definition**: Planned roll-up workloads. **Options**: N/A
convolution_actual_hours	String	**Definition**: Actual roll-up workloads. **Options**: N/A
id	String	**Definition**: Work item ID. **Options**: N/A
plan_iteration	String	**Definition**: Sprint ID. **Options**: N/A

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Table 4-859 UserEntity

Parameter	Type	Description
id	String	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **id** in the response message body is the user ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A
name	String	**Definition**: Username. **Constraints**: Minimum length: 2 characters. Maximum length: 64 characters. **Options**: N/A **Default value**: N/A
nick_name	String	**Definition**: User alias. **Constraints**: Minimum length: 2 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Table 4-860 PageVO

Parameter	Type	Description
page	String	Current page.
size	String	Number of records on each page.
count	String	Total number of data records.

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Status code: 400

Table 4-861 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying work hours in a project based on the work item ID

```
POST https://{endpoint}/v1/ipdprojectservice/projects/05c7d8bcf3db4829bc841e4ba93aaea5/work-hour/query

{
  "params" : {
    "plan_pi" : [ ],
    "plan_iteration" : [ ],
    "workitem_id" : [ "976857692367659008" ],
    "created_by" : [ ]
  },
  "page_info" : {
    "offset" : 0,
    "limit" : 200
  }
}
```

Example Responses

Status code: 200

Returning work hour and pagination information

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "workitem" : {
      "plan_pi" : null,
      "sum_workload_man_day" : "112.00",
      "convolution_actual_hours" : null,
      "id" : "976857692367659008",
      "plan_iteration" : null
    },
    "work_date" : "1706803200000",
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf",
      "name" : "devcloud_devcloud_s00404480_01",
      "nick_name" : "Test account"
    },
    "work_hour_category" : "R&D design",
    "work_hours" : 6
  } ],
  "page" : {
    "page" : 1,
    "size" : 200,
    "count" : 1
  }
}
```

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Status Codes

Status Code	Description
200	Returning work hour and pagination information
400	Error response body.

Error Codes

See **Error Codes**.

4.15.2 Querying the Work Hour Type

Function

This API is used to query the work hour type.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/work-hour/options

Table 4-862 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-863 Query Parameters

Parameter	Mandatory	Type	Description
display_value	No	String	**Definition**: Display name. Fuzzy search is supported. **Constraints**: Minimum length: 0 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-864 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status. **Options**: **success** and **fail**
message	String	**Definition**: Message. **Options**: N/A
result	Array of **WorkHourCategoryVO** objects	**Definition**: Work type.

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Table 4-865 WorkHourCategoryVO

Parameter	Type	Description
id	String	**Definition**: Work type ID. **Options**: N/A
value	String	**Definition**: Unique value of the work type. **Options**: R&D design, backend development, frontend development (web), frontend development (applet), frontend development (app), test and verification, defect rectification, UI design, meeting, public affairs, training, study, reassignment and leave, and other.
code	String	**Definition**: Unique code of the work type. **Options**: R&D design, backend development, frontend development (web), frontend development (applet), frontend development (app), test and verification, defect rectification, UI design, meeting, public affairs, training, study, reassignment and leave, and other.
sequence	String	**Definition**: Sorting order. **Options**: N/A
display_value	String	**Definition**: Display name. **Options**: R&D design, backend development, frontend development (web), frontend development (applet), frontend development (app), test and verification, defect rectification, UI design, meeting, public affairs, training, study, reassignment and leave, and other.

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Parameter	Type	Description
value_py	String	**Definition**: Work type name abbreviation. **Options**: N/A

Status code: 400

Table 4-866 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Searching for work hour types whose name contain **development**

```
{url}/v1/ipdprojectservice/projects/693d17d43d6340d782da7356efc584a7/work-hour/options?
display_value=development
```

Example Responses

Status code: 200

Work hour type response body.

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "977516004109099010",
    "value" : "Backend development",
    "code" : "Backend development",
    "sequence" : 0,
    "display_value" : "Backend development",
    "value_py" : "hdkf"
  }, {
    "id" : "977516004109099016",
    "value" : "Frontend development (web)",
    "code" : "Frontend development (web)",
    "sequence" : 0,
    "display_value" : "Frontend development (web)",
    "value_py" : "qdkfw"
  }, {
    "id" : "977516004109099008",
    "value" : "Frontend development (applet)",
    "code" : "Frontend development (applet)",
    "sequence" : 0,
    "display_value" : "Frontend development (applet)",
    "value_py" : "qdkfc"
  }, {
    "id" : "977516004109099011",
    "value" : "Frontend development (app)",
```

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```
    "code" : "Frontend development (app)",
    "sequence" : 0,
    "display_value" : "Frontend development (app)",
    "value_py" : "qdkfa"
  } ]
}
```

Status Codes

Status Code	Description
200	Work hour type response body.
400	Failure response body.

Error Codes

See **Error Codes**.

4.16 IPD Workflow

4.16.1 Obtaining Details of a Workflow and Its Transition Lines

Function

This API is used to obtain details of a workflow and its transition lines.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/workflow-template

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Table 4-867 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Description**: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of **project_id** in the response body is the project ID. **Constraints**: regular expression, ^[A-Za-z0-9]{32}$ **Default value**: N/A

Table 4-868 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	**Definition**: Work item type. **Constraints**: Regular expression: ^(RR|IR|AR|SR|Bug|FE|Task|US|Epic|SF) **Options**: **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default value**: N/A

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Request Parameters

Table 4-869 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-870 Response body parameters

Parameter	Type	Description
result	**WorkflowTemplateVO** object	**Definition**: Query result. **Options**: N/A
status	String	**Definition**: Status code. **Options**: N/A
message	String	**Definition**: Response message. **Options**: N/A

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Table 4-871 WorkflowTemplateVO

Parameter	Type	Description
processNodes	Array of **WorkflowTemplateNodesVO** objects	**Definition**: Status information in a status flow. **Options**: N/A
processFlows	Array of **WorkflowTemplateFlowsVO** objects	**Definition**: Transition line information in a status flow. **Options**: N/A

Table 4-872 WorkflowTemplateNodesVO

Parameter	Type	Description
name	String	**Definition**: Status name. **Options**: N/A

Table 4-873 WorkflowTemplateFlowsVO

Parameter	Type	Description
before_rule_validator	Array of **WorkflowTemplateConfigsVO** objects	**Definition**: Pre-transition verification. **Options**: N/A
before_rule_configs	Array of **WorkflowTemplateConfigsVO** objects	**Definition**: In-transition page configuration. **Options**: N/A
from_code	String	**Definition**: Entry status of a transition line. **Options**: N/A

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Parameter	Type	Description
to_code	String	**Definition**: Exit status of a transition line. **Options**: N/A

Table 4-874 WorkflowTemplateConfigsVO

Parameter	Type	Description
configValue	Array of Map<String,String> objects	**Definition**: Operation item configuration. **Options**: N/A

Example Requests

```
GEThttps://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/workflow-template?issue_category=RR
```

Example Responses

Status code: 200

Success response.

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "process_nodes" : [ {
      "code" : "Analyse",
      "name" : "Analysis"
    } ],
    "process_flows" : [ {
      "code" : "Analyse2ToBeConfirmed",
      "name" : "Turn back",
      "from_code" : "Analyse",
      "to_code" : "ToBeConfirmed",
      "before_rule_configs" : [ ],
      "before_rule_validator" : [ ]
    } ]
  }
}
```

Status Codes

Status Code	Description
200	Success response.

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Error Codes

See **Error Codes**.

4.16.2 Querying Workflow Field Configuration

Function

This API is used to query workflow field configuration.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/workflow-template/issue/fields

Table 4-875 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Description**: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of **project_id** in the response body is the project ID. **Constraints**: regular expression, ^[A-Za-z0-9]{32}$ **Default value**: N/A

Table 4-876 Query Parameters

Parameter	Mandatory	Type	Description
issue_category	Yes	String	**Definition**: Work item type. **Constraints**: Regular expression: ^(RR|IR|AR|SR|Bug|FE|Task|US|Epic|SF) **Options**: **RR**, **IR**, **AR**, **SR**, **Bug**, **FE**, **Task**, **US**, **Epic**, and **SF** **Default value**: N/A

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Request Parameters

Table 4-877 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-878 Response body parameters

Parameter	Type	Description
result	Object	**Definition**: Query result. **Options**: N/A
status	String	**Definition**: Status code. **Options**: N/A
message	String	**Definition**: Response message. **Options**: N/A

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Example Requests

```
GEThttps://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/workflow-template/issue/fields?issue_category=RR
```

Example Responses

Status code: 200

Success response.

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "config_fields" : [ {
      "display_name" : "Turn-back Conclusion",
      "show" : false,
      "show_editable" : false,
      "optional" : true,
      "controlled" : false,
      "issue_roles" : null
    } ]
  }
}
```

Status Codes

Status Code	Description
200	Success response.

Error Codes

See **Error Codes**.

4.17 IPD Status Management

4.17.1 Querying the Work Item Status

Function

This API is used to query the status information of a work item.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/category/{category_id}/statuses

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Table 4-879 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Description**: 32-bit UUID of a project, which uniquely identifies a project. You can obtain the project ID by calling the API for querying the project list. The value of **project_id** in the response body is the project ID. **Constraints**: regular expression, ^[A-Za-z0-9]{32}$ **Default value**: N/A
category_id	Yes	String	**Definition**: 5-digit ID of the work item type. **Constraints**: Regular expression: ^[\d]{5} **Options**: IPD-system device: **10021** (RR), **10065** (SF), **10020** (IR), **10022** (SR), **10029** (AR), **10027** (task), and **10033** (bug) IPD-standalone software: **10021** (RR), **10065** (SF), **10020** (IR), **10023** (US), **10027** (task), and **10033** (bug) IPD-self-operated software/ cloud service: **10001** (epic), **10028** (FE), **10021** (RR), **10023** (US), **10027** (task), and **10033** (bug) **Default value**: N/A

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Request Parameters

Table 4-880 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-881 Response body parameters

Parameter	Type	Description
total	Integer	**Definition**: Total number of queried records. **Options**: N/A
result	Array of **StatusVO** objects	**Definition**: Query result. **Options**: N/A
status	String	**Definition**: Status code. **Options**: N/A

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Parameter	Type	Description
message	String	**Definition**: Response message. **Options**: N/A

Table 4-882 StatusVO

Parameter	Type	Description
name	String	**Definition**: Status name. **Options**: N/A
belonging	String	**Definition**: Work item status. **Options**: **START**, **IN_PROGRESS**, and **END**

Example Requests

```
GET https://{endpoint}/v1/ipdprojectservice/projects/39d30be0842e4e5d8e28ee7e1712c6a2/category/10001/statuses
```

Example Responses

Status code: 200

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "code" : "Start",
    "name" : "Initial",
    "belonging" : "START"
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	ok

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Error Codes

See **Error Codes**.

4.18 IPD Tag Management

4.18.1 Querying Tags

Function

This API is used to query the tag list. Tags are displayed on one page. You can search for tags by title.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/tags

Table 4-883 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-884 Query Parameters

Parameter	Mandatory	Type	Description
label_type	No	String	Work item type to which a tag belongs. If this parameter is not transferred, tags of all types are queried by default. The options are: **feature**, **raw requirement**, **requirement** (R&D requirement), **task**, and **bug**.
title	No	String	Tag name.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-885 Response body parameters

Parameter	Type	Description
result	**LabelListResponse** object	Tag details.
status	String	Request status.
message	String	Returned error message.

Table 4-886 LabelListResponse

Parameter	Type	Description
data	Array of **LabelEntity** objects	Tag list.
total	Integer	Total number of tags.

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Table 4-887 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

Example Requests

Querying the tags whose titles contain 11 in a bug

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags?
title=11&label_type=bug
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "result" : {
    "data" : [ {
      "id" : "1030082514003210240",
      "label_type" : "bug",
      "color" : "#A97AF8",
      "title" : "Bug11"
    } ],
    "total" : 7
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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4.18.2 Creating a Tag

Function

This API is used to create a tag.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/tags

Table 4-888 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Request Parameters

Table 4-889 Request body parameters

Parameter	Mandatory	Type	Description
label_type	Yes	String	Work item type to which a tag belongs. If this parameter is not transferred, tags of all types are queried by default. This parameter is invalid when it is used as an update parameter. The options are: **feature**, **raw requirement**, **requirement** (R&D requirement), **task**, and **bug**.
color	Yes	String	Tag color, which is optional when used as an update parameter. Available color codes: **#86CAFF**, **#6DDEBB**, **#A6DD82**, **#FAC20A**, **#FA9841**, **#F66F6A**, **#F3689A**, **#A97AF8**, **#71757F**, **#5E7CE0**, **#207AB3**, **#169E6C**, **#6CA83B**, **#B58200**, **#B54E04**, **#B02121**, **#AD215B**, **#572DB3**, **#4F4F4F**, and "#3C51A6".
title	Yes	String	Tag title. The value can contain a maximum of 15 characters. It is optional when used as an update parameter.

Response Parameters

Status code: 200

Table 4-890 Response body parameters

Parameter	Type	Description
status	String	Request status.
message	String	Cause of a failed request.

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Parameter	Type	Description
result	**LabelEntity** object	Tag details.

Table 4-891 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

Example Requests

Creating R&D requirement tags

```
POST https://{endpoint}/v3/projects/b54914d464d1498a97d683ef198ec448/tags

{
  "title" : "Tag-IR-05",
  "color" : "#A6DD82",
  "label_type" : "requirement"
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "id" : "1030868827803529217",
    "label_type" : "requirement",
    "color" : "#A6DD82",
    "title" : "Tag-IR-05"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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4.18.3 Updating a Tag

Function

This API is used to update a tag. The title and color can be updated.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}

Table 4-892 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A
label_id	Yes	String	Tag ID.

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Request Parameters

Table 4-893 Request body parameters

Parameter	Mandatory	Type	Description
label_type	Yes	String	Work item type to which a tag belongs. If this parameter is not transferred, tags of all types are queried by default. This parameter is invalid when it is used as an update parameter. The options are: **feature**, **raw requirement**, **requirement** (R&D requirement), **task**, and **bug**.
color	Yes	String	Tag color, which is optional when used as an update parameter. Available color codes: **#86CAFF**, **#6DDEBB**, **#A6DD82**, **#FAC20A**, **#FA9841**, **#F66F6A**, **#F3689A**, **#A97AF8**, **#71757F**, **#5E7CE0**, **#207AB3**, **#169E6C**, **#6CA83B**, **#B58200**, **#B54E04**, **#B02121**, **#AD215B**, **#572DB3**, **#4F4F4F**, and "#3C51A6".
title	Yes	String	Tag title. The value can contain a maximum of 15 characters. It is optional when used as an update parameter.

Response Parameters

Status code: 200

Table 4-894 Response body parameters

Parameter	Type	Description
status	String	Request status.
message	String	Cause of a failed request.

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Parameter	Type	Description
result	**LabelEntity** object	Tag details.

Table 4-895 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

Example Requests

Updating the tag title

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags/
1030868827803529217

{
  "label_type" : "requirement",
  "color" : "#86CAFF",
  "title" : "New Label Title"
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "title" : "Tag-IR-02111221"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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4.18.4 Deleting a Tag

Function

This API is used to delete a tag.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v1/ipdprojectservice/projects/{project_id}/tags/{label_id}

Table 4-896 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A
label_id	Yes	String	Tag ID.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-897 Response body parameters

Parameter	Type	Description
status	String	Request status.
message	String	Cause of a failed request.
result	**LabelEntity** object	Tag details.

Table 4-898 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

Example Requests

Deleting a Specified Tag

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/tags/1030868827803529217
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : "ok",
  "result" : {
    "id" : "1030868827803529217"
  }
}
```

Status Codes

Status Code	Description
200	OK

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Error Codes

See **Error Codes**.

4.19 IPD Statistics Overview

4.19.1 Obtaining Statistics Panel Data

Function

This API is used to obtain the requirement/bug statistic data. The data will be delayed for 5 to 10 minutes.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/statistic/dashboard

Table 4-899 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-900 Query Parameters

Parameter	Mandatory	Type	Description
classification	Yes	String	**Definition**: Statistics type. **Constraints**: Regular expression: (requirement|bug) **Options**: **requirement** and **bug** **requirement**: queries requirement statistics. **bug**: queries bug statistics. **Default value**: N/A

Request Parameters

Table 4-901 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

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Table 4-902 Request body parameters

Parameter	Mandatory	Type	Description
plan	No	**PlanFilter** object	**Definition**: Release plan filter criteria. **Constraints**: N/A
created_date	No	**DateFilter** object	**Definition**: Filter criteria for work item creation time. **Constraints**: N/A

Table 4-903 PlanFilter

Parameter	Mandatory	Type	Description
plan_pi	No	String	**Definition**: ID of a release plan when the statistics are collected by sprint plan. You can query the release plan ID by calling the **Querying the Release/Sprint Plan List** API. The **id** in **PlanVO** in the returned parameters is the release plan ID. **Constraints**: Regular expression: [0-9]{18,19} **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
plan_iteration	No	String	**Definition**: ID of the sprint plan when the statistics are collected by sprint plan. **Constraints**: Regular expression: [0-9]{18,19} **Options**: N/A **Default value**: N/A

Table 4-904 DateFilter

Parameter	Mandatory	Type	Description
start_date	No	String	**Definition**: The work item creation time cannot be earlier than this time. Timestamp of 00:00 on date d. **Constraints**: Regular expression: [0-9]{13,19} **Options**: N/A **Default value**: N/A
end_date	No	String	**Definition**: The work item creation time cannot be later than this time. The timestamp is 00:00 on the date d+1. **Constraints**: Regular expression: [0-9]{13,19} **Options**: N/A **Default value**: N/A

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Response Parameters

Status code: 200

Table 4-905 Response body parameters

Parameter	Type	Description
result	Array of DashboardSimpleVO objects	**Definition**: Statistical result.
status	String	**Definition**: Request status. **Options**: N/A
message	String	**Definition**: Request failure information. **Options**: N/A

Table 4-906 DashboardSimpleVO

Parameter	Type	Description
category	String	**Definition**: Work item type. **Options**: For system device projects, the options are **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, the options are **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, the options are **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**.
total	Integer	**Definition**: Total number of work items. **Options**: N/A
processing	Integer	**Definition**: Number of work items being processed. **Options**: N/A

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Parameter	Type	Description
completed	Integer	**Definition**: Number of completed work items. **Options**: N/A
expired	Integer	**Definition**: Number of overdue work items. **Options**: N/A
remain_di	Double	**Definition**: DI of unresolved bugs. The statistical scope includes all non-closed and non-draft bugs in the project. **Options**: DI = **Warning** × 0.1 + **Minor** × 1 + **Major** × 3 + **Critical** × 10
category_name	String	**Definition**: Statistics panel name. **Options**: N/A

Status code: 400

Table 4-907 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
http://localhost:8083/ipdprojectservice/v3/projects/0f516b2816e044efb51f301dd55941a2/statistic?classification=bug

{ }
```

Example Responses

Status code: 200

Statistics success response.

```
{
  "status" : "success",
```

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```
 "message" : null,
 "result" : [ {
   "category" : "RR",
   "total" : 0,
   "processing" : 0,
   "completed" : 0,
   "expired" : 0,
   "category_name" : "Raw requirement."
 }, {
   "category" : "SF",
   "total" : 2,
   "processing" : 1,
   "completed" : 0,
   "expired" : 0,
   "category_name" : "System feature"
 }, {
   "category" : "IR",
   "total" : 2,
   "processing" : 1,
   "completed" : 0,
   "expired" : 1,
   "category_name" : "Initial requirement"
 }, {
   "category" : "SR",
   "total" : 1,
   "processing" : 0,
   "completed" : 0,
   "expired" : 0,
   "category_name" : "System requirement"
 }, {
   "category" : "AR",
   "total" : 1,
   "processing" : 0,
   "completed" : 0,
   "expired" : 0,
   "category_name" : "Allocated requirement"
 }, {
   "category" : "Task",
   "total" : 1,
   "processing" : 0,
   "completed" : 0,
   "expired" : 0,
   "category_name" : "Task"
 }, {
   "category" : "Bug",
   "total" : 5,
   "processing" : 0,
   "completed" : 0,
   "expired" : 0,
   "category_name" : "Bug"
 } ]
}
```


Status code: 400

Response indicating collection failure


```
{
  "error_code" : "PM.02175302",
  "error_msg" : "Service busy: ISSUE_SERVICE"
}
```


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Status Codes

Status Code	Description
200	Statistics success response.
400	Response indicating collection failure

Error Codes

See **Error Codes**.

4.20 IPD Configuration Management

4.20.1 Querying Fields

Function

This API is used to query the field list by page. Keywords, including title, field type, and creator, can be used for query.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/fields

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Table 4-908 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Table 4-909 Query Parameters

Parameter	Mandatory	Type	Description
keyword	No	String	**Definition**: Keyword search by title, field type, and creator. **Constraints**: N/A **Options**: N/A **Default value**: N/A
offset	Yes	Integer	**Definition**: Pagination offset. **Constraints**: The value must be a multiple of **limit**. **Options**: Minimum value: **0**. **Default value**: N/A

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Parameter	Mandatory	Type	Description
limit	Yes	Integer	**Definition**: Number of records displayed on each page **Constraints**: N/A **Options**: Minimum value: **1**. **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-910 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Request status. **Options**: N/A
message	String	**Definition**: Request failure information. **Options**: N/A
result	**FieldListResult** object	**Definition**: Field list.

Table 4-911 FieldListResult

Parameter	Type	Description
data	Array of **FieldEntity** objects	**Definition**: Field list.

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Parameter	Type	Description
total	Integer	**Definition**: Total number of fields in a project. **Options**: N/A

Table 4-912 FieldEntity

Parameter	Type	Description
display_name	String	**Definition**: Field display name. **Options**: N/A
code	String	**Definition**: Field code. **Options**: N/A
id	String	**Definition**: Field ID. **Options**: N/A
description	String	**Definition**: Field description. **Options**: N/A
created_by	String	**Definition**: Display name of the field creator. **Options**: N/A
created_date	String	**Definition**: Creation time of a field. **Options**: N/A
modified_by	String	**Definition**: Display name of the last updater. **Options**: N/A

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Parameter	Type	Description
definition_type	String	**Definition**: Field level. **Value range**: **1**, **2**, **3** (system-preset field) **4** (tenant-defined field) **5** (project-defined field)
field_type_name	String	**Definition**: Field type name. **Options**: N/A
required	Boolean	**Definition**: Whether the field is mandatory in the work item. If the field is inconsistent with the workflow configuration, the workflow prevails. **Options**: **true** (mandatory) **false** (optional)
controlled	Boolean	**Definition**: Whether the field is controlled in the work item. If the controlled field in the baselined work item is changed, the change review process is required. If the field is inconsistent with the workflow configuration, the workflow prevails. **Options**: **true** (controlled) **false** (non-controlled)
immutable	Boolean	**Definition**: Whether a field can be modified in the work item. If the value is inconsistent with the workflow configuration, the workflow prevails. **Options**: **true** (unchangeable) **false** (changeable)

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Parameter	Type	Description
no	Integer	**Definition**: Field sequence number. **Options**: N/A
all_options	Array of **OptionEntity** objects	**Definition**: Field option.

Table 4-913 OptionEntity

Parameter	Type	Description
id	String	Option ID.
code	String	Option code value.
display_value	String	Option display name.
value	String	Unique ID of an option.
level	Integer	Option level, which is used to distinguish field levels. A maximum of four levels are supported.
sequence	Integer	Option sequence.
parent_id	String	Parent option ID.

Example Requests

Querying fields by keyword

```
https://{endpoint}/v1/ipdprojectservice/projects/b54914d464d1498a97d683ef198ec448/fields?offset=0&limit=1
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "result" : {
    "data" : [ {
      "display_name" : "Subtitle",
      "code" : "c7186197833374113792",
      "id" : "994277015639076864",
      "description" : "222222222222",
      "created_by" : "Test alias",
      "created_date" : "1715305846000",
      "modified_by" : "Test alias",
```

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```
    "definition_type" : "4",
    "field_type_name" : "Multi-line text",
    "required" : false,
    "controlled" : false,
    "immutable" : false,
    "no" : 9999
   } ],
   "total" : 1
  }
}
```


Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.20.2 Querying the Work Item Status List

Function

This API is used to query the work item status list.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/status

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Table 4-914 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-915 Query Parameters

Parameter	Mandatory	Type	Description
categories	Yes	String	**Definition**: Work item type. **Constraints**: Minimum length: 2 characters. Maximum length: 128 characters. **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. Multiple work item types can be supported, which are separated by commas (,), for example, **IR,SR,AR**. Work item types that are not transferred to the project are filtered out. **Default value**: N/A

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Request Parameters

Table 4-916 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-917 Response body parameters

Parameter	Type	Description
result	**StatusListResult** object	**Definition**: Status list.
status	String	**Definition**: Query result status. **Options**: N/A
message	String	**Definition**: Error message. **Options**: N/A

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Table 4-918 StatusListResult

Parameter	Type	Description
status	Array of **StatusEntity** objects	**Definition**: Status list.

Table 4-919 StatusEntity

Parameter	Type	Description
id	String	**Definition**: Status ID. **Options**: N/A
belonging	String	**Definition**: Work item status. **Options**: **START**, **IN_PROGRESS**, and **END**
display_value	String	**Definition**: Status. **Options**: N/A
code	String	**Definition**: Unique status ID. **Options**: N/A
created_by	String	**Definition**: Status creator. **Options**: N/A
created_time	String	**Definition**: Status creation time. **Options**: N/A
modified_by	String	**Definition**: Status modifier. **Options**: N/A

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Parameter	Type	Description
modified_time	String	**Definition**: Latest modification time of a status. **Options**: N/A
category_code	Array of strings	**Definition**: Work items that use the status.

Status code: 400

Table 4-920 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
https://{endpoint}/v1/ipdprojectservice/projects/336ad84c67ea4783b2edc1bb5a112da0/status?
categories=FE,IR
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "status" : [ {
      "id" : "954399210965348356",
      "belonging" : "START",
      "display_value" : "Initial",
      "code" : "Start",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_time" : "1705476103000",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_time" : "1705476103000",
      "category_code" : [ "IR", "SR" ]
    }, {
      "id" : "954399210965348363",
      "belonging" : "START",
      "display_value" : "Analysis",
      "code" : "Analyse",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_time" : "1705476103000",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_time" : "1705476103000",
      "category_code" : [ "Bug", "IR", "SR" ]
    }, {
```

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```
    "id" : "958806581085904896",
    "belonging" : "IN_PROGRESS",
    "display_value" : "openapi-test",
    "code" : "s7150727397899378688",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1706526902000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1706526902000",
    "category_code" : [ "IR" ]
  }, {
    "id" : "954399210965348376",
    "belonging" : "IN_PROGRESS",
    "display_value" : "Test",
    "code" : "Test",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "Bug", "IR", "SR" ]
  }, {
    "id" : "954399210965348369",
    "belonging" : "IN_PROGRESS",
    "display_value" : "Development",
    "code" : "Develop",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "IR", "SR" ]
  }, {
    "id" : "954399210961154063",
    "belonging" : "IN_PROGRESS",
    "display_value" : "Confirm",
    "code" : "ToBeConfirmed",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "Bug" ]
  }, {
    "id" : "954399210965348354",
    "belonging" : "IN_PROGRESS",
    "display_value" : "Recovery",
    "code" : "Fixed",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "Bug" ]
  }, {
    "id" : "954399210961154057",
    "belonging" : "IN_PROGRESS",
    "display_value" : "Acceptance",
    "code" : "Checking",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "Bug" ]
  }, {
    "id" : "954399210961154060",
    "belonging" : "END",
    "display_value" : "Closure",
    "code" : "Closed",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "Bug" ]
```


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```
  }, {
    "id" : "954399210965348381",
    "belonging" : "END",
    "display_value" : "Completed",
    "code" : "Finish",
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "created_time" : "1705476103000",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_time" : "1705476103000",
    "category_code" : [ "IR", "SR" ]
  } ]
 }
}
```


Status code: 400

{

"error_code": "PM.02175903",

"error_msg": "Work item type error"

}


```
{
  "error_code" : "PM.02175000",
  "error_msg" : "System busy. Try again later."
}
```


Status Codes

Status Code	Description
200	OK

400	{
	"error_code": "PM.02175903",
	"error_msg": "Work item type error"
	}

Error Codes

See **Error Codes**.

4.21 IPD Project Plan Management

4.21.1 Querying the Release/Sprint Plan List

Function

This API is used to query the release/sprint plan list.

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Calling Method

For details, see **Calling APIs**.

URI

GET /v1/planservice/projects/{project_id}/plans/query

Table 4-921 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Table 4-922 Query Parameters

Parameter	Mandatory	Type	Description
key_word	Yes	String	**Definition**: Release/Sprint name. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
updated_time_interval	Yes	String	**Definition**: Release/Sprint update time, which is a Unix timestamp (unit: millisecond). Examples: **1576114296000** and **1576114396000** **Constraints**: Regular expression: ([1-9][0-9]{0,12})?(,)?([1-9][0-9]{0,12})? **Options**: N/A **Default value**: N/A

Request Parameters

Table 4-923 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints**: N/A **Value range**: 10–32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-924 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status information. **Options**: N/A
message	String	**Definition**: Prompt information. **Options**: N/A
result	Array of **PlanVO** objects	**Definition**: Plan list.
page	**page** object	**Definition**: Plan list page.

Table 4-925 PlanVO

Parameter	Type	Description
id	String	**Definition**: ID (ID of a release, sprint, or milestone). **Options**: N/A
title	String	**Definition**: Title. **Options**: N/A
category	String	**Definition**: Type. The value is of the enumerated type. **Options**: **PI**, **Iteration**, and **PlanMilestone**
description	String	**Definition**: Description **Options**: N/A

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Parameter	Type	Description
state	String	**Definition**: Discard flag. The value is of the enumerated type. **Options**: **In use**, **Discarded**, and **Deleted**
status	String	**Definition**: Status. The value is of the enumerated type. **Options**: **planned**, **going**, and **ended**
children	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
created_by	String	**Definition**: Creator. **Options**: N/A
modified_by	String	**Definition**: Updater. **Options**: N/A
plan_start_date	Long	**Definition**: Plan start time, which is a Unix timestamp (unit: millisecond). **Options**: N/A
plan_end_date	Long	**Definition**: Plan completion time, which is a Unix timestamp (unit: millisecond). **Options**: N/A
created_date	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A

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Parameter	Type	Description
parent_id	String	**Definition**: Parent work item ID. **Options**: N/A
baseline	String	**Definition**: Baseline status. The value is of the enumerated type. **Options**: **baselined**, **unbaseline**, and **baseline-reviewing**
workload	String	**Definition**: Estimated workload. **Options**: N/A
owner	String	**Definition**: Owner ID. **Options**: N/A

Table 4-926 page

Parameter	Type	Description
page	Integer	**Definition**: Page number. **Options**: N/A
size	Integer	**Definition**: Number of pages. **Options**: N/A
count	Integer	**Definition**: Number of records displayed on the current page. **Options**: N/A

Status code: 400

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Table 4-927 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

Example Requests

```
GET https://{endpoint}/v1/planservice/projects/{project_id}/plans/query?
key_word=gzy&updated_time_interval=1706845235000,1706845835000
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "956200745322848257",
    "title" : "IR-01",
    "category" : "PI",
    "description" : "Description",
    "state" : "In use",
    "status" : "ended",
    "children" : null,
    "created_by" : "a360371833bf4c558f796fd707b44daf",
    "modified_by" : "a360371833bf4c558f796fd707b44daf",
    "plan_start_date" : "1706845715000",
    "plan_end_date" : "1706845715000",
    "created_date" : "1706845715000",
    "parent_id" : "956239067176935424",
    "baseline" : "baselined",
    "workload" : "workload",
    "owner" : "a360371833bf4c558f796fd707b44daf"
  } ],
  "page" : {
    "page" : 1,
    "size" : 10,
    "count" : 1
  }
}
```

Status Codes

Status Code	Description
200	OK
400	The error message is returned.

Error Codes

See **Error Codes**.

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4.21.2 Querying Release/Sprint Plan Details

Function

This API is used to query release/sprint plan details.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/planservice/projects/{project_id}/plans/{plan_id}

Table 4-928 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A
plan_id	Yes	String	**Description**: unique ID of a release/sprint. You can obtain the value using the API for querying the release/sprint plan list in section "IPD Project Plan Management". The value of the **id** field in the response message body is the release/sprint ID. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Default value**: N/A

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Request Parameters

Table 4-929 Request header parameters

Parameter	Mandatory	Type	Description
x-auth-token	Yes	String	**Definition**: User token. Obtain a token by calling the IAM API for**obtaining a user token**. The value of **X-Subject-Token** in the response header is the user token. **Constraints**: N/A **Value range**: 10–32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

Table 4-930 Response body parameters

Parameter	Type	Description
status	String	Status information.
message	String	Prompt message.
result	**PlanVO** object	Return value of the created plan.

Table 4-931 PlanVO

Parameter	Type	Description
id	String	**Definition**: ID (ID of a release, sprint, or milestone). **Options**: N/A
title	String	**Definition**: Title. **Options**: N/A

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Parameter	Type	Description
category	String	**Definition**: Type. The value is of the enumerated type. **Options**: **PI**, **Iteration**, and **PlanMilestone**
description	String	**Definition**: Description **Options**: N/A
state	String	**Definition**: Discard flag. The value is of the enumerated type. **Options**: **In use**, **Discarded**, and **Deleted**
status	String	**Definition**: Status. The value is of the enumerated type. **Options**: **planned**, **going**, and **ended**
children	Array of **PlanVO** objects	**Definition**: Sub-project sprint information.
created_by	String	**Definition**: Creator. **Options**: N/A
modified_by	String	**Definition**: Updater. **Options**: N/A
plan_start_date	Long	**Definition**: Plan start time, which is a Unix timestamp (unit: millisecond). **Options**: N/A

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Parameter	Type	Description
plan_end_date	Long	**Definition**: Plan completion time, which is a Unix timestamp (unit: millisecond). **Options**: N/A
created_date	Long	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A
parent_id	String	**Definition**: Parent work item ID. **Options**: N/A
baseline	String	**Definition**: Baseline status. The value is of the enumerated type. **Options**: **baselined**, **unbaseline**, and **baseline-reviewing**
workload	String	**Definition**: Estimated workload. **Options**: N/A
owner	String	**Definition**: Owner ID. **Options**: N/A

Status code: 400

Table 4-932 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

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Example Requests

```
GET https://{endpoint}/v1/planservice/projects/22f601108007420da5a90b4a30c09f83/plans/1113849585474641920
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : "Success",
  "result" : {
    "id" : "123e4567e89b12d3a456426614174000",
    "title" : "Project Milestone 1",
    "category" : "PlanMilestone",
    "description" : "This is an important milestone of the project.",
    "state" : "In use",
    "status" : "planned",
    "children" : [ {
      "id" : "123e4567e89b12d3a456426614174000",
      "title" : "Sprint 1",
      "category" : "Iteration",
      "description" : "Sprint 1 description.",
      "state" : "In use",
      "status" : "planned",
      "children" : [ ],
      "created_by" : "user1",
      "modified_by" : "user1",
      "plan_start_date" : 1633072800000,
      "plan_end_date" : 1635751200000,
      "created_date" : 1633072800000,
      "parent_id" : "123e4567e89b12d3a456426614174000",
      "baseline" : "unbaseline",
      "workload" : "10 person-days",
      "owner" : "user2"
    } ],
    "created_by" : "admin",
    "modified_by" : "admin",
    "plan_start_date" : 1630466400000,
    "plan_end_date" : 1633072800000,
    "created_date" : 1630466400000,
    "parent_id" : null,
    "baseline" : "unbaseline",
    "workload" : "20 person-days",
    "owner" : "user1"
  }
}
```

Status code: 400

The error message is returned.

```
{
  "error_msg" : "Invalid project_id or other parameters",
  "error_code" : "AS.0001"
}
```

Status Codes

Status Code	Description
200	OK

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Status Code	Description
400	The error message is returned.

Error Codes

See **Error Codes**.

4.22 IPD Module Management

4.22.1 Querying the Module Tree Diagram

Function

This API is used to query the module tree diagram.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/modules/tree

Table 4-933 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

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Table 4-934 Query Parameters

Parameter	Mandatory	Type	Description
key_word	No	String	**Definition**: Currently, only search by name keyword is supported. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sort	No	String	**Definition**: Sorting rule. By default, the creation time (descending) is used, that is, the latest creation is displayed on the top. **Constraints**: N/A **Options**: N/A **Default value**: created_date
sort_type	No	String	**Definition**: Sorting mode. The value can be **asc** or **desc**. **asc** indicates ascending order and **desc** indicates descending order. The default value is **desc**. **Constraints**: N/A **Options**: **asc** and **desc** **Default value**: **desc**

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition**: Start page number. The value starts from **0** and is an integer multiple of limit. The default value is **0**. **Constraints**: N/A **Options**: Minimum value: 0. Maximum value: 350 **Default value**: **0**
limit	No	Integer	**Definition**: Number of records displayed on each page **Constraints**: N/A **Options**: Minimum value: **1**. Maximum value: **100**. **Default value**: 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-935 Response body parameters

Parameter	Type	Description
result	**ModuleListResult** object	**Definition**: Module list.
status	String	**Definition**: Query result status. **Options**: N/A

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Parameter	Type	Description
message	String	**Definition**: Error message. **Options**: N/A

Table 4-936 ModuleListResult

Parameter	Type	Description
modules	Array of **ModuleEntity** objects	**Definition**: Module list.
total	Integer	**Definition**: Total number of modules. A maximum of 350 modules (including sub-modules) are allowed in a project. **Options**: Maximum value: **350**.

Table 4-937 ModuleEntity

Parameter	Type	Description
id	String	**Definition**: Module ID. **Options**: N/A
sequence	String	**Definition**: Module sequence value, which is of the double type. **Options**: N/A
level	Integer	**Definition**: Module level. A maximum of three levels are supported. **Options**: **1**, **2**, and **3**

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Parameter	Type	Description
description	String	**Definition**: Module description. **Options**: N/A
created_by	String	**Definition**: Module creator ID. **Options**: N/A
created_time	String	**Definition**: Creation time, which is a Unix timestamp (unit: millisecond). **Options**: N/A
modified_by	String	**Definition**: ID of the last modifier of the module. **Options**: N/A
modified_time	String	**Definition**: Last modification time of a module, which is a Unix timestamp (unit: millisecond). **Options**: N/A
display_value	String	**Definition**: Module display name. **Options**: N/A
path_name	String	**Definition**: Path name of the sub-module. **Options**: N/A
value	String	**Definition**: Unique ID of a module. You can customize the value and ID of a module. **Options**: N/A

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Parameter	Type	Description
parent_id	String	**Definition**: Parent module ID. **Options**: N/A
child_modules	Array of **ModuleEntity** objects	**Definition**: Child module information.
assignee	String	**Definition**: Module owner ID. **Options**: N/A

Status code: 400

Table 4-938 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
https://{endpoint}/v1/ipdprojectservice/projects/336ad84c67ea4783b2edc1bb5a112da0/modules/tree?offset=0&limit=20&sort_type=asc
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "modules" : [ {
      "id" : "958663834527117312",
      "sequence" : "1.0",
      "level" : 1,
      "description" : "aaaa",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_time" : "1706492869000",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_time" : "1706492869000",
      "display_value" : "Module A",
      "path_name" : "Module A",
      "value" : "958663834527117312",
      "child_modules" : [ {
```

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```
      "id" : "958663880396025857",
      "sequence" : "1.0",
      "level" : 2,
      "description" : "aaa1",
      "created_by" : "a360371833bf4c558f796fd707b44daf",
      "created_time" : "1706492880000",
      "modified_by" : "a360371833bf4c558f796fd707b44daf",
      "modified_time" : "1706492880000",
      "display_value" : "Module A-1",
      "path_name" : "Module A/Module A-1",
      "value" : "958663880396025857",
      "parent_id" : "958663834527117312",
      "child_modules" : [ {
        "id" : "958663903372423168",
        "sequence" : "1.0",
        "level" : 3,
        "description" : "",
        "created_by" : "a360371833bf4c558f796fd707b44daf",
        "created_time" : "1706492885000",
        "modified_by" : "a360371833bf4c558f796fd707b44daf",
        "modified_time" : "1706492885000",
        "display_value" : "Module A-1-1",
        "path_name" : "Module A/Module A-1/Module A-1-1",
        "value" : "958663903372423168",
        "parent_id" : "958663880396025857",
        "assignee" : "a360371833bf4c558f796fd707b44daf"
      } ],
      "assignee" : "a360371833bf4c558f796fd707b44daf"
    } ],
    "assignee" : "a360371833bf4c558f796fd707b44daf"
  } ],
  "total" : 1
 }
}
```


Status code: 400

Error message.


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "Incorrect pagination parameter."
}
```


Status Codes

Status Code	Description
200	OK
400	Error message.

Error Codes

See **Error Codes**.

4.23 IPD Project Management

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4.23.1 Querying the IPD Project List

Function

This API is used to query the IPD project list.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/ipd

Table 4-939 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	**Definition**: Project name keyword. **Constraints**: Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
model	No	String	**Definition**: IPD project model ID. **Constraints**: N/A **Options**: **10001**: system device **10002**: standalone software **10003**: cloud service **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-940 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status. **Options**: N/A
message	String	**Definition**: Failure information. **Options**: N/A
result	Array of **ProjectInfoVO** objects	**Definition**: Project information list.

Table 4-941 ProjectInfoVO

Parameter	Type	Description
id	String	**Definition**: Project ID. **Options**: N/A
name	String	**Definition**: Project name. **Options**: N/A
project_type	String	**Definition**: Project type. **Options**: ipd scrum xboard
domain_id	String	**Definition**: ID of the domain to which the project belongs. **Options**: N/A

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Parameter	Type	Description
model_id	String	**Definition**: IPD project model ID. **Options**: **10001**: system device **10002**: standalone software **10003**: cloud service

Example Requests

```
/v1/ipdprojectservice/projects/ipd?search=&model=
```

Example Responses

Status code: 200

Success response

```
{
  "status" : "success",
  "message" : null,
  "result" : [ {
    "id" : "e44fbbd512b6470886b0f95663d4789a",
    "name" : "IPD-Self-Operated Software/Cloud Service-0403-0",
    "project_type" : "ipd",
    "domain_id" : "982241044173205505",
    "model_id" : "10003"
  } ]
}
```

Status Codes

Status Code	Description
200	Success response

Error Codes

See **Error Codes**.

4.24 IPD Attachment Management

4.24.1 Uploading Files and Associating Work Items

Function

This API is used to upload files and associate them with work items.

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Calling Method

For details, see **Calling APIs**.

URI

POST /v1/ipdprojectservice/projects/{project_id}/issues/{issue_id}/attachments/upload

Table 4-942 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A
issue_id	Yes	String	**Description**: unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Default value**: N/A

Request Parameters

Table 4-943 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	**Definition**: Attachment.

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Response Parameters

Status code: 200

Table 4-944 Response body parameters

Parameter	Type	Description
status	String	**Definition**: Status. **Options**: N/A
message	String	**Definition**: Failure information. **Options**: N/A
result	Array of **AttachmentVoExt** objects	**Definition**: Attachment upload information.

Table 4-945 AttachmentVoExt

Parameter	Type	Description
progress	Integer	**Definition**: Upload progress. **Options**: N/A
id	String	**Definition**: Attachment ID. **Options**: N/A
workitem_id	String	**Definition**: Work item ID. **Options**: N/A
filesize	Long	**Definition**: File size. **Options**: N/A

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Parameter	Type	Description
store_filename	String	**Definition**: File name. **Options**: N/A
title	String	**Definition**: File name. **Options**: N/A

Example Requests

```
POST https://{endpoint}/v1/ipdprojectservice/projects/gdbdf969b32694524a949b5ef6b3e124a/issues/95623906717693540 0/attachments/upload

------WebKitFormBoundary1kuNerRnRVVybt65
Content-Disposition: form-data; name="attachment"; filename="demo.PNG"
Content-Type: image/png
```

Example Responses

Status code: 200

Upload success response.

```
{
  "status" : "success",
  "message" : null,
  "result" : null
}
```

Status Codes

Status Code	Description
200	Upload success response.

Error Codes

See **Error Codes**.

4.24.2 Downloading Work Item Attachments by ID

Function

This API is used to download work item attachments by ID.

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Calling Method

For details, see **Calling APIs**.

URI

GET /v1/ipdprojectservice/projects/{project_id}/attachments/download/{id}

Table 4-946 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A
id	Yes	String	Attachment ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-947 Response body parameters

Parameter	Type	Description
-	File	Attachment.

Status code: 400

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Table 4-948 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
{url}/v1/ipdprojectservice/projects/68158c24d6d14e48bab08befefae150f/attachments/download/984773880527626241
```

Example Responses

Status code: 400

Common error response.

```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```

Status Codes

Status Code	Description
200	Attachment.
400	Common error response.

Error Codes

See **Error Codes**.

4.24.3 Uploading an Image to the Work Item Description

Function

This API is used to upload an image to the work item description.

Calling Method

For details, see **Calling APIs**.

URI

POST /v2/ipdprojectservice/projects/{project_id}/images

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Table 4-949 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Table 4-950 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Description**: unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Default value**: N/A

Request Parameters

Table 4-951 FormData parameters

Parameter	Mandatory	Type	Description
file	Yes	File	Image to be uploaded. Currently, JPG, JPEG, PNG, GIF, BMP, TIFF, and SVG images are supported.

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Response Parameters

Status code: 200

Table 4-952 Response body parameters

Parameter	Type	Description
status	String	Request status. If the request is successful, the status is **success**. If the request fails, an exception is thrown.
message	String	Request information. Generally, this field is left blank.
result	**IssueEntity** object	Work item details.

Table 4-953 IssueEntity

Parameter	Type	Description
id	String	**Definition**: ID of the work item to be updated. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
title	String	**Definition**: Work item title. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **title** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
description	String	**Definition**: Work item description. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **description** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
type	String	**Definition**: Broad category of work item. This field is not available when you create or edit a work item. It is used only for display. You can obtain the value of this field from the **type** field in the response body of the **Querying Tree-shaped Work Items** API. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A
number	String	**Definition**: Work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **number** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
category	String	**Definition**: Subcategory of work item. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **category** in the response body. **Constraints**: N/A **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A
parent_id	String	**Definition**: Parent work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **parent_id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
status	String	**Definition**: Work item status code. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **status** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
state	String	**Definition**: Work item lifecycle. The options are **In use** and **Discarded**. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **state** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 8 characters. **Options**: **In use** and **Discarded** **Default value**: N/A
assignee	**UserEntity** object	**Definition**: Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition**: CC recipient of a work item. Multiple CC recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition**: Work item creator.

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Parameter	Type	Description
created_time	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
modified_by	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_end_date	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
close_time	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
workload	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Constraints**: N/A **Options**: 0–999,999,999.9 **Default value**: N/A
workload_sum	String	**Definition**: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0–999,999,999.9. The value cannot be edited. **Constraints**: Minimum length: 0 characters. Maximum length: 11 characters. **Options**: 0–999,999,999.9 **Default value**: N/A

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Parameter	Type	Description
tenant_id	String	**Definition**: ID of the tenant to which the work item belongs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Constraints**: 32 characters. **Value range**: N/A **Default value**: N/A
link	String	**Definition**: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **link** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 2,048 characters. **Options**: N/A **Default value**: N/A
suspended	Boolean	**Definition**: Whether a work item is suspended. **Constraints**: N/A **Options**: **true** and **false** **Default value**: N/A

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Parameter	Type	Description
status_modified_time	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A
labels	Array of **LabelEntity** objects	**Definition**: Work item tag.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.
path	String	**Definition**: Path of a sub-work item. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
ir2feature	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Options**: N/A **Default value**: N/A
need_break	String	**Definition**: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. **Constraints**: N/A **Options**: N/A **Default value**: N/A
break_status	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down **--**: N/A **Constraints**: N/A **Options**: **decomposed**, **undecomposed**, and **--**. **Default value**: N/A

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Parameter	Type	Description
baseline	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Constraints**: N/A **Options**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A
priority	String	**Definition**: Work item priority. Some work items have this field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
related_network_security	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
collaboratives	String	**Definition**: R&D requirement collaboration task ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
business_domain	String	**Definition**: Domain field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_pi	String	**Definition**: Work item release plan ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
plan_iteration	String	**Definition**: ID of the sprint plan in which the work item is completed. For bugs, the value is the ID of the fix sprint plan. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
change_status	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchange** or null: unchanged **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A
no_break_reason	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Constraints**: Minimum length: 0 characters. Maximum length: 512 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
submitted_by	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
feature_set	String	**Definition**: Feature set ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **feature_set** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
expected_repair_date	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
found_pi	String	**Definition**: ID of the release plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
found_iteration	String	**Definition**: ID of the sprint plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
reason_analysis	String	**Definition**: Cause analysis. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
repair_solution	String	**Definition**: Rectification solution. This field is available only for bugs. **Constraints**: Minimum length: 0 characters. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
test_report	String	**Definition**: Test report. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_no_repair_reason	String	**Definition**: Reason why rectification is not required. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_activation_reason	String	**Definition**: Activation reason. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition**: Reason for return. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
test_failures_times	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
close_type	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Constraints**: N/A **Options**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A

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Parameter	Type	Description
plan_owner	**UserEntity** object	**Definition**: Work item planning owner.
doing_owner	**UserEntity** object	**Definition**: Work item implementation owner.
delivered_owner	**UserEntity** object	**Definition**: Work item delivery owner.
checking_owner	**UserEntity** object	**Definition**: Work item acceptance owner.
test_owner	**UserEntity** object	**Definition**: Work item testing owner.
develop_owner	**UserEntity** object	**Definition**: Work item development owner.
processing_owner	**UserEntity** object	**Definition**: Work item processing owner.
fixed_owner	**UserEntity** object	**Definition**: Work item fixing owner.
researchanddevel-op_owner	**UserEntity** object	**Definition**: Work item R&D owner.
analyse_owner	**UserEntity** object	**Definition**: Work item analysis owner.

Table 4-954 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Table 4-955 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition**: Work item field code. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
value	String	**Definition**: Custom field value of a work item. Use commas (,) to separate multiple values. **Constraints**: Minimum length: 0 characters. Maximum length: 10,000 characters. **Options**: N/A **Default value**: N/A

Table 4-956 UserEntity

Parameter	Type	Description
id	String	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **id** in the response message body is the user ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
name	String	**Definition**: Username. **Constraints**: Minimum length: 2 characters. Maximum length: 64 characters. **Options**: N/A **Default value**: N/A
nick_name	String	**Definition**: User alias. **Constraints**: Minimum length: 2 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Example Requests

```
/v2/ipdprojectservice/projects/e2569a971657464f810949e839ec5640/images?
issue_id=1071125987320569856

file=xxxx.png
```

Example Responses

Status code: 200

Uploaded successfully


```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "1061975230944026625",
    "title" : "Task-01",
    "description" : "<p>[Background] </p><p><br></p><p>[Value]</p><p><br></p><p>[Details]</p>",
    "number" : "TASK20241109690657",
    "category" : "Task",
    "status" : "Start",
    "assignee" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "created_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "created_time" : "2024-11-09T11:50:25Z",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
```


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```
    },
    "modified_time" : "2024-11-09T11:50:25Z",
    "custom_fields" : [ ]
  }
}
```

Status Codes

Status Code	Description
200	Uploaded successfully

Error Codes

See **Error Codes**.

4.24.4 Deleting an Image from the Work Item Description

Function

This API is used to delete an image from the work item description.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v2/ipdprojectservice/projects/{project_id}/images

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Table 4-957 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Table 4-958 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Description**: unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Default value**: N/A
file_name	Yes	String	Image name in the work item description, for example, **f401ab8826b1426285910e6c5da80d07.png**.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-959 Response body parameters

Parameter	Type	Description
status	String	Request status. If the request is successful, the status is **success**. If the request fails, an exception is thrown.
message	String	Request information. Generally, this field is left blank.
result	**IssueEntity** object	Work item details.

Table 4-960 IssueEntity

Parameter	Type	Description
id	String	**Definition**: ID of the work item to be updated. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
title	String	**Definition**: Work item title. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **title** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
description	String	**Definition**: Work item description. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **description** in the response body. **Constraints**: Minimum length: 1 character. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
type	String	**Definition**: Broad category of work item. This field is not available when you create or edit a work item. It is used only for display. You can obtain the value of this field from the **type** field in the response body of the **Querying Tree-shaped Work Items** API. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: **requirement** (R&D requirement), **bug**, **task**, **feature**, and **raw_requirement**. **Default value**: N/A
number	String	**Definition**: Work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **number** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 128 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
category	String	**Definition**: Subcategory of work item. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **category** in the response body. **Constraints**: N/A **Options**: For system device projects, options include **RR**, **SF**, **IR**, **SR**, **AR**, **Task**, and **Bug**. For standalone software projects, options include **RR**, **SF**, **IR**, **US**, **Task**, and **Bug**. For cloud service projects, options include **RR**, **Epic**, **FE**, **US**, **Task**, and **Bug**. **Default value**: N/A
parent_id	String	**Definition**: Parent work item ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **parent_id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
project_id	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: [A-Za-z0-9]{32} **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
status	String	**Definition**: Work item status code. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **status** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
state	String	**Definition**: Work item lifecycle. The options are **In use** and **Discarded**. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **state** in the response body. **Constraints**: Minimum length: 2 characters. Maximum length: 8 characters. **Options**: **In use** and **Discarded** **Default value**: N/A
assignee	**UserEntity** object	**Definition**: Work item owner.
assigned_cc	Array of **UserEntity** objects	**Definition**: CC recipient of a work item. Multiple CC recipients are supported. A work item can be copied to a maximum of 50 recipients.
created_by	**UserEntity** object	**Definition**: Work item creator.

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Parameter	Type	Description
created_time	String	**Definition**: Work item creation time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
modified_by	**UserEntity** object	**Definition**: Late updater of a work item.
modified_time	String	**Definition**: Last update time of the work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_end_date	String	**Definition**: Planned end date of a work item, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
close_time	String	**Definition**: Work item closure time, which is a Unix timestamp (unit: millisecond). **Constraints**: N/A **Options**: N/A **Default value**: N/A
workload	String	**Definition**: Planned workloads of a work item. One decimal place is reserved. The value ranges from 0 to 999,999,999.9. **Constraints**: N/A **Options**: 0–999,999,999.9 **Default value**: N/A
workload_sum	String	**Definition**: Planned workloads of a work item. The value is a number with one decimal place. The value range is 0–999,999,999.9. The value cannot be edited. **Constraints**: Minimum length: 0 characters. Maximum length: 11 characters. **Options**: 0–999,999,999.9 **Default value**: N/A

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Parameter	Type	Description
tenant_id	String	**Definition**: ID of the tenant to which the work item belongs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **tenant_id** in the response body. **Constraints**: 32 characters. **Value range**: N/A **Default value**: N/A
link	String	**Definition**: IDs of associated items of a work item. Separate multiple associated items by commas (,). A work item can have a maximum of 50 associated items. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **link** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 2,048 characters. **Options**: N/A **Default value**: N/A
suspended	Boolean	**Definition**: Whether a work item is suspended. **Constraints**: N/A **Options**: **true** and **false** **Default value**: N/A

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Parameter	Type	Description
status_modified_time	String	**Definition**: Time when the work item status changes, which can be used to calculate the number of days that the work item stays in the current status. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A
labels	Array of **LabelEntity** objects	**Definition**: Work item tag.
custom_fields	Array of **FieldCodeValuePair** objects	**Definition**: Custom field mapping of a work item. System fields added by users are also in this column. { "code":"field code", "value":"field value" }.
children	Array of **IssueEntity** objects	**Definition**: Child work item set of a work item.
path	String	**Definition**: Path of a sub-work item. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
ir2feature	String	**Definition**: Associated field between IR and FE. This field is available when the work item type is IR. **Constraints**: N/A **Options**: N/A **Default value**: N/A
need_break	String	**Definition**: Whether a work item needs to be broke down. This field is available only for work item types that can be broke down. **Constraints**: N/A **Options**: N/A **Default value**: N/A
break_status	String	**Definition**: Breakdown status. The options are: **decomposed**: broken down **undecomposed**: not broken down **--**: N/A **Constraints**: N/A **Options**: **decomposed**, **undecomposed**, and **--**. **Default value**: N/A

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Parameter	Type	Description
baseline	String	**Definition**: Work item baseline status. The options are: **null**: unbaselined **baselined**: baselined **baseline-reviewing**: being reviewed **Constraints**: N/A **Options**: **null**, **baselined**, and **baseline-reviewing** **Default value**: N/A
priority	String	**Definition**: Work item priority. Some work items have this field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
related_network_security	String	**Definition**: Whether network security is involved. This field is available only for R&D requirements. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
collaboratives	String	**Definition**: R&D requirement collaboration task ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **collaboratives** in the response body. **Constraints**: Minimum length: 0 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A
business_domain	String	**Definition**: Domain field. **Constraints**: N/A **Options**: N/A **Default value**: N/A
plan_pi	String	**Definition**: Work item release plan ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
plan_iteration	String	**Definition**: ID of the sprint plan in which the work item is completed. For bugs, the value is the ID of the fix sprint plan. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **plan_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
change_status	String	**Definition**: Work item change status. The options are: **change-reviewing**: being reviewed **changed**: changed **unchange** or null: unchanged **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: **change-reviewing**, **changed**, **unchange**, and null **Default value**: N/A
no_break_reason	String	**Definition**: Reason for breakdown nonnecessity. This field is available when **need_break** is set to **no**. **Constraints**: Minimum length: 0 characters. Maximum length: 512 characters. **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
submitted_by	Array of **UserEntity** objects	**Definition**: Work item proposer.
ir2rr	String	**Definition**: ID of the RR associated with the IR. Use commas (,) to separate multiple IDs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
feature_set	String	**Definition**: Feature set ID. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **feature_set** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
expected_repair_date	String	**Definition**: Expected fixing time. This field is available only for bugs. The value is a Unix timestamp, in milliseconds. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
found_pi	String	**Definition**: ID of the release plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_pi** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
found_iteration	String	**Definition**: ID of the sprint plan where the bug is found. This field is available only for bugs. You can obtain the value from the **Querying Tree-shaped Work Items** API. The value is **found_iteration** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A
reason_analysis	String	**Definition**: Cause analysis. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
repair_solution	String	**Definition**: Rectification solution. This field is available only for bugs. **Constraints**: Minimum length: 0 characters. Maximum length: 50,000 characters. **Options**: N/A **Default value**: N/A
test_report	String	**Definition**: Test report. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_no_repair_reason	String	**Definition**: Reason why rectification is not required. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
sys_activation_reason	String	**Definition**: Activation reason. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
sys_return_reason	String	**Definition**: Reason for return. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
test_failures_times	Integer	**Definition**: Number of times that regression failed. This field is available only for bugs. **Constraints**: N/A **Options**: N/A **Default value**: N/A
close_type	String	**Definition**: Closure type. This field is available only for bugs. The options are **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem**, which mean that the bug was fixed and closed, the bug was converted into a requirement and closed, the bug was closed as a duplicate, the bug was closed because it was not a valid issue, respectively. **Constraints**: N/A **Options**: **problem_solved**, **problem_to_requirement**, **duplicate_problem**, and **not_a_problem** **Default value**: N/A

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Parameter	Type	Description
plan_owner	**UserEntity** object	**Definition**: Work item planning owner.
doing_owner	**UserEntity** object	**Definition**: Work item implementation owner.
delivered_owner	**UserEntity** object	**Definition**: Work item delivery owner.
checking_owner	**UserEntity** object	**Definition**: Work item acceptance owner.
test_owner	**UserEntity** object	**Definition**: Work item testing owner.
develop_owner	**UserEntity** object	**Definition**: Work item development owner.
processing_owner	**UserEntity** object	**Definition**: Work item processing owner.
fixed_owner	**UserEntity** object	**Definition**: Work item fixing owner.
researchanddevel-op_owner	**UserEntity** object	**Definition**: Work item R&D owner.
analyse_owner	**UserEntity** object	**Definition**: Work item analysis owner.

Table 4-961 LabelEntity

Parameter	Type	Description
id	String	**Definition**: Tag ID, which is the value of **id** in the response body returned by calling the **Querying the Tag List** API. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
label_type	String	**Definition**: Type of the work item to which the label belongs, corresponding to the type field of the work item. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
color	String	**Definition**: Tag RGB color. **Constraints**: Minimum length: 0 characters. Maximum length: 16 characters. **Options**: N/A **Default value**: N/A
title	String	**Definition**: Tag title. **Constraints**: Minimum length: 2 characters. Maximum length: 256 characters. **Options**: N/A **Default value**: N/A

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Table 4-962 FieldCodeValuePair

Parameter	Type	Description
code	String	**Definition**: Work item field code. **Constraints**: Minimum length: 0 characters. Maximum length: 32 characters. **Options**: N/A **Default value**: N/A
value	String	**Definition**: Custom field value of a work item. Use commas (,) to separate multiple values. **Constraints**: Minimum length: 0 characters. Maximum length: 10,000 characters. **Options**: N/A **Default value**: N/A

Table 4-963 UserEntity

Parameter	Type	Description
id	String	**Definition**: User ID. You can obtain the value using the **Obtaining the Current User Information** API. The value of **id** in the response message body is the user ID. **Constraints**: N/A **Options**: N/A **Default value**: N/A

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Parameter	Type	Description
name	String	**Definition**: Username. **Constraints**: Minimum length: 2 characters. Maximum length: 64 characters. **Options**: N/A **Default value**: N/A
nick_name	String	**Definition**: User alias. **Constraints**: Minimum length: 2 characters. Maximum length: 30 characters. **Options**: N/A **Default value**: N/A

Status code: 400

Table 4-964 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
/v2/ipdprojectservice/projects/e2569a971657464f810949e839ec5640/images?
issue_id=1071125987320569856&file_name=f401ab8826b1426285910e6c5da80d07.png
```

Example Responses

Status code: 200

Deleted successfully

```
{
  "status" : "success",
  "message" : null,
  "result" : {
    "id" : "1061975230944026625",
```

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```
    "description" : "<p>[Task Background]</p>\n<p><br></p>\n<p>[Task Value]</p>\n<p><br></p>
\n<p>[Task Details]</p>",
    "category" : "Task",
    "modified_by" : {
      "id" : "a360371833bf4c558f796fd707b44daf"
    },
    "modified_time" : "2024-12-05T10:07:31Z",
    "custom_fields" : [ ]
  }
}
```


Status code: 400

Common error response.


```
{
  "error_code" : "PM.02174103",
  "error_msg" : "No permission."
}
```


Status Codes

Status Code	Description
200	Deleted successfully
400	Common error response.

Error Codes

See **Error Codes**.

4.24.5 Downloading an Image in the Work Item Description

Function

This API is used to download an image from the work item description.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/ipdprojectservice/projects/{project_id}/images

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Table 4-965 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: 32-character UUID of a project, which uniquely identifies a project. Obtain the value of this parameter from the **project_id** field in the response body of the **Querying the Project List** API. **Constraints**: Regular expression: ^[A-Za-z0-9]{32}$ **Options**: N/A **Default value**: N/A

Table 4-966 Query Parameters

Parameter	Mandatory	Type	Description
issue_id	Yes	String	**Description**: unique ID of a work item. You can obtain the value from the **Querying Work Items** or **Querying Tree-shaped Work Items** API. The value is **id** in the response body. **Constraints**: Regular expression: ^([0-9]{18,19})$ **Default value**: N/A
file_name	Yes	String	**Definition**: Name of the image in the work item description. **Constraints**: Regular expression: [A-Za-z0-9]{32}(.png|.jpg|.jpeg|.gif|.bmp|.tiff|.svg) **Options**: N/A **Default value**: N/A

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Parameter	Mandatory	Type	Description
field_code	No	String	**Definition**: Rich text field code. **Constraints**: N/A **Options**: Maximum length: 64 characters. **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-967 Response body parameters

Parameter	Type	Description
-	File	Image content.

Example Requests

```
/v2/ipdprojectservice/projects/e2569a971657464f810949e839ec5640/images?
issue_id=10711259873205698 56&file_name=f401ab8826b1426285910e6c5da80d07.png
```

Example Responses

None

Status Codes

Status Code	Description
200	Image content.

Error Codes

See **Error Codes**.

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4.25 REST APIs for All Issue Severity Operations

4.25.1 Querying All Severities

Function

This API is used to query all severities.

Calling Method

For details, see **Calling APIs**.

URI

GET /v2/issue-severity/all

Request Parameters

Table 4-968 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition**: User token. Obtain the token by calling the**Obtaining a User Token**IAM API. In the returned response header, **X-Subject-Token** is the desired user token. **Constraints**: Mandatory. **Range**: Minimum length: 10 character. Maximum length: 32,768 characters. **Default value**: N/A

Response Parameters

Status code: 200

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Table 4-969 Response body parameters

Parameter	Type	Description
result	**result** object	**Definition**: Returned result.
status	String	**Definition**: Returned status. **Value range**: **success**: The modification is successful. **error**: The modification fails.

Table 4-970 result

Parameter	Type	Description
severities	Array of **severities** objects	**Definition**: Severity.

Table 4-971 severities

Parameter	Type	Description
id	Integer	**Definition**: Enumerated ID of severity. **Value range**: N/A
name	String	**Definition**: Severity level. **Value range**: **Critical**, **Major**, **Minor**, and **Trivial**
position	Integer	**Definition**: Enumerated position of severity. **Value range**: N/A
isDefault	Boolean	**Definition**: Whether the severity is the default value. **Value range**: **true** (default value) **false** (not the default value)

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Parameter	Type	Description
type	String	**Definition**: Severity type. **Value range**: **Critical**, **Major**, **Minor**, and **Trivial**
active	Boolean	**Definition**: Whether the severity is common. **Value range**: **false** (uncommon) **true** (common)

Status code: 400

Table 4-972 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 401

Table 4-973 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

Status code: 403

Table 4-974 Response body parameters

Parameter	Type	Description
error_code	String	Error Codes
error_msg	String	Description

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Example Requests

```
GET https://{endpoint}/v2/issue-severity/all
```

Example Responses

Status code: 200

This API is used to query the JSON strings of all severities.


```
{
  "result" : {
    "severities" : [ {
      "id" : 10,
      "name" : "Critical",
      "position" : 1,
      "isDefault" : false,
      "type" : "Severity",
      "active" : true
    }, {
      "id" : 11,
      "name" : "Major",
      "position" : 1,
      "isDefault" : false,
      "type" : "Severity",
      "active" : true
    }, {
      "id" : 12,
      "name" : "Minor",
      "position" : 1,
      "isDefault" : true,
      "type" : "Severity",
      "active" : true
    }, {
      "id" : 13,
      "name" : "Trivial",
      "position" : 1,
      "isDefault" : false,
      "type" : "Severity",
      "active" : true
    } ]
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	This API is used to query the JSON strings of all severities.
400	Bad Request
401	Unauthorized
403	Forbidden

Error Codes

See **Error Codes**.

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5 Application Examples

5.1 Example 1: Obtaining the Project List in CodeArts Req

Scenario

This section uses the **test001** user as an example to describe how to use an API to query the project list of the current user.

For details about how to call APIs, see **Calling APIs**.

Constraints

Ensure that the **test001** user has created or participated in a project in CodeArts Req.

Involved API

Query project information of the current user based on the user token.

URI: GET **/v4/projects**

For details about the API document, see "Querying the Project List".

For details about online API Explorer debugging, see "Querying the Project List."

Procedure

- Request example

```
GET https://excample.com/v4/projects?
project_type=scrum&search=ProjectTestCase&offset=0&limit=1
```

- Response example

```
{
"projects": [
      {
"project_num_id": 3844012,
"project_id": "ec147b681fb64e019a6bcd73ebdf3597",
"project_name": "ProjectTestCaseYRXl",
"description": "fdas",
```

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```
"created_time": 1600417972000,
"updated_time": 1600417972000,
"project_type": "scrum",
"creator": {
"user_num_id": 4090,
"user_id": "665b542eb4c14b53a15ead449f28b0ba",
"user_name": "test001",
"domain_id": "70d11a2d7275425689347ec104af2ad8",
"domain_name": "projectman_l00382124_01",
"nick_name": "Jim"
            }
        }
    ],
"total": 48
}
```


5.2 Example 2: Querying The Sprint List of a Specified Project

Scenario

This section uses the **test001** user as an example to describe how to use an API to query the sprint list of a specified project.

For details about how to call APIs, see **Calling APIs**.

Constraints

Ensure that the **test001** user has created a project in CodeArts Req.

Involved API

Query the sprint list of a specified project of the current user based on the user token.

URI: GET **/v4/projects/{project_id}/iterations**

For details about the API document, see "Obtaining the Sprint List of a Specified Project."

For details about online API Explorer debugging, see "Obtaining the Sprint List of a Specified Project."

Procedure

- Request example
  GET https://excample.com/**v4/projects/**3cea7d4d77134eee8251825918a8bd7a**/iterations**
- Response example


```
{
 "iterations": [
  {
   "id": 707961817,
   "name": "Sprint 1",
   "description": "",
   "begin_time": "2020/06/07",
   "end_time": "2020/07/06"
  },
  {
```


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```
  "id": 707961818,
  "name": "Sprint 2",
  "description": "",
  "begin_time": "2020/07/07",
  "end_time": "2020/08/06"
 },
 {
  "id": 707961819,
  "name": "Sprint 3",
  "description": "",
  "begin_time": "2020/08/07",
  "end_time": "2020/09/06"
 }
],
"total": 3
}
```


5.3 Example 3: Querying Comments on Work Items of a User

Scenario

The **test001** user has created or participated in a project in CodeArts Req. The project contains created work items.

For details about how to call APIs, see **Calling APIs**.

Constraints

Work items exist.

Involved API

Query the work item list of a specified project based on the user token, and then query work item comments based on the project ID and work item ID. The procedure is as follows:

1. **Step 1: Query the work item list of the user**
2. **Step 2: Query comments on work items**

Step 1: Query the work item list of the user

- API information

  URI: Post **/v4/projects/{project_id}/issues**

  For details about the API document, see "Using Advanced Query to Find Work Items."

  For details about online API Explorer debugging, see "Advanced Query to Find Work Items."

- Request example

  ```
  Post https://excample.com/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
  ```

- Request body

  ```
  {
  "status_ids": [1],
  "limit":1
  }
  ```

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- Response example


```
{
"issues": [
      {
"id": 1692040,
"name":"Test",
"done_ratio": 0,
"tracker": {
"id": 2,
"name": "Task"
          },
"priority": {
"id": 2,
"name": "Medium"
          },
"severity": {
"id": 12,
"name": "Minor"
          },
"status": {
"id": 1,
"name": "New"
          },
"updated_time": "2020-09-17 10:18:31",
"begin_time": "1970-01-01",
"end_time": "1970-01-01",
"project": {
"project_num_id": 3694732,
"project_id": "526cefde62004de2b62b5e8dd2c2b3af",
"project_name": "sdfsdfdsf"
          },
"parent_issue": {
"id": 1684959,
"name": "testDemo John Doe"
          },
"module": {
"id": null,
"name": null
          },
"domain": {
"id": null,
"name": null
          },
"iteration": {
"id": null,
"name": null
          },
"expected_work_hours": 0.0,
"actual_work_hours": 0.0,
"created_time": "2020-09-17 10:18:31",
"custom_fields": [],
"assigned_cc_user": null,
"assigned_user": {
"id": 4091,
"name": "test001",
"nick_name": "pcedgeXXXXXXX"
          },
"creator": {
"id": 4091,
"name": "test001",
"nick_name": "pcedgeXXXXXXX"
          },
"developer": {
"id": 0,
"name": null,
"nick_name": null
          }
      }
  ],
```


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```
"total": 24
}
```

Step 2: Query comments on work items

- API information

  URI: GET **/v4/projects/{project_id}/issues/{issue_id}/comments**

  For details about the API document, see "Obtaining the Comment List of a Specified Work Item."

  For details about online API Explorer debugging, see "Obtaining the Comment List of a Specified Work Item."

- Request example

  GET https://excample.com**/v4/projects/**526cefde62004de2b62b5e8dd2c2b3af**/issues/**1692040**/comments**

- Response example

```
{
   "comments": [
      {
         "id": 3235092,
         "created_time": "2020-08-26",
         "user": {
            "user_num_id": 4091,
            "user_name": "test001",
            "nick_name": "pcedgeXXXXXXX"
         },
         "comment": "<p>This is a test example.</p>"
      }
   ],
   "total": 1
}
```

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6 Appendix

6.1 Status Codes

Table 6-1 describes status codes.

Table 6-1 Status codes

Status Code	Message	Description
100	Continue	The client continues sending the request. This temporary response is used to inform the client that some requests have been received and not rejected by the server.
101	Switching Protocols	Switch protocols. A protocol can only be switched to a more advanced one. For example, the current HTTP protocol is switched to a later version.
201	Created	The request has been fulfilled and resulted in a new resource being created.
202	Accepted	The request has been accepted, but has not finished being processed yet.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	NoContent	The request has been successfully implemented, but the HTTP response does not contain a response body. This status code is returned in response to an HTTP **OPTIONS** request.

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Status Code	Message	Description
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	The response contains a list of resource characteristics and addresses from which a user terminal (such as a browser) can choose the most appropriate one.
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource was temporarily moved.
303	See Other	The response to the request can be found under a different URI. The response to the request should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. In such case, there is no need to retransmit the resource since the client still has a previously downloaded copy.
305	Use Proxy	The requested resource must be accessed through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The authorization information provided by the client is incorrect or invalid.
402	Payment Required	Reserved request.
403	Forbidden	Request rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.

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Status Code	Message	Description
405	MethodNotAllowed	A request method is not supported for the requested resource. The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server could not fulfil the request according to the content characteristics of the request.
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The client does not produce a request within the time that the server was prepared to wait. The client may re-initiate the request without modifications at any time later.
409	Conflict	The request cannot be processed due to a conflict. The resource that the client attempts to create already exists, or the update request fails to be processed due to a conflict.
410	Gone	The requested resource cannot be found. This status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refuses to process the request without a defined **Content-Length**.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request is too large. The server may disable the connection to prevent the client from sending requests consecutively. If the server temporarily cannot process the request, the response will contain a **Retry-After** header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server does not support the media type in the request.
416	Requested range not satisfiable	The requested range is invalid.

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Status Code	Message	Description
417	Expectation Failed	The server fails to meet the requirements of the **Expect** request header field.
422	UnprocessableEntity	The request is well-formed but is unable to respond due to semantic errors.
429	TooManyRequests	The client sends too many requests to the server within a given time, exceeding the client's access frequency limit or beyond the server's processing capability. In this case, the client should retry after the time period specified in the **Retry-After** response header.
500	InternalServerError	The server is able to receive the request but it cannot understand the request.
501	Not Implemented	The server does not support the requested function.
502	Bad Gateway	The server is acting as a gateway or proxy and receives an invalid request from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The server could not return a timely response. This status code is returned to the client only when the **Timeout** parameter is specified in the request.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

6.2 Error Codes

If an error occurs in API calling, no result will be returned. You can identify the error cause based on the error codes of each API.

If an error occurs in API calling (for example, HTTP status code **400** or **505** is returned), the response body contains the specific error code and information.

If you cannot locate the cause of an error, contact customer service and provide the error code, so that we can help you solve the problem as soon as possible.

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Error Response Body Format

If an error occurs during API calling, an error code and the corresponding error message will be displayed. The following shows an error response body:

```
{
   "error_msg": "The format of message is error",
   "error_code": "AS.0001"
}
```

In the response body, **error_code** is an error code, and **error_msg** describes the error.

Error Code Description

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in **API Gateway Error Codes**.

Table 6-2 Error codes

Status Code	Error Code	Error Message	Description	Solution
400	PM.02150010	The target user is not a member of the project.	The target user is not a member of the project.	Add the target user to the project.
400	PM.02150301	Deletion failed.	Deletion failed.	Change the user role to another one before deleting the user.
400	PM.02150302	The permissions cannot be changed.	The permissions cannot be changed.	Do not change the permissions.
400	PM.02150303	The role does not exist.	The role does not exist.	Verify request parameters.
400	PM.02150304	The role name is unavailable. Set a new name.	The role name is unavailable. Set a new name.	Set a new name.
400	PM.02150305	The role name conflicts with another one.	The role name conflicts with another one.	Set a new name.
400	PM.02150404	The project space does not exist.	The project space does not exist.	Check the project space.
400	PM.02151001	The program does not exist.	The program does not exist.	Check the program.
400	PM.02152001	Invalid parameter.	Invalid parameter.	Correct the parameter.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02152002	Undefined error.	Undefined error.	Correct the error.
400	PM.02152003	Invalid argument name.	Invalid argument name.	Correct the argument name.
400	PM.02152004	The program is not archived.	The program is not archived.	Archive the program.
400	PM.02152005	Project does not exist or has been deleted.	Project does not exist or has been deleted.	Check the project information.
400	PM.02152006	The program has not been followed.	The program has not been followed.	Follow the program first.
400	PM.02152007	The program has been followed.	The program has been followed.	No need to follow the program again.
400	PM.02152008	Invalid users are listed in the parameters for modifying the permissions to create programs.	Invalid users are listed in the parameters for modifying the permissions to create programs.	Remove the invalid users listed in the parameters for modifying the permissions to create programs.
400	PM.02152009	The program has been archived.	The program has been archived.	No need to archive the program again.
400	PM.02152010	The project type is not allowed.	The project type is not allowed.	Use a correct project type.
400	PM.02152011	The project has been associated.	The project has been associated.	No need to associate the project again.
400	PM.02153001	Too frequent access. Try again later.	Too frequent access. Try again later.	Try again later.
400	PM.02175006	Invalid Parameter: {0}.	Invalid parameter.	Retry with a correct request parameter.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02175101	Number of subnodes exceeds {0}.	The number of subnodes cannot exceed the upper limit.	Create subnodes only after deleting other subnodes, or under other nodes.
400	PM.02175103	Only accepted initial requirement can be edited.	The current initial requirement (IR) cannot be modified. (An IR can only be modified when its proposing project is the same as the responsible project, or it is accepted in the responsible project. This error may occur when an IR is being modified or a child requirement is being created under its parent requirement.)	Confirm the IR status and try again.
400	PM.02175104	Some of the initial requirements cannot be edited.	Some IRs cannot be modified (usually because some requested IRs do not exist).	Confirm all the modified IRs and try again.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02175105	Invalid parent IR.	The parent IR is invalid. (This error occurs because the parent IR of child IR that are created in batches are inconsistent, the responsible project of the parent IR is not the same as the proposing project of the child IR, or the assigned parent IR type is incorrect.)	Retry with a correct request parameter.
400	PM.02175106	Cannot create sub ir to current project.	The proposing project of the child IR cannot be the same as its responsible project.	Submit the child IR to other projects.
400	PM.02175111	Child IRs exist, cannot delete.	The parent IR with child IRs cannot be deleted.	Delete all child IRs and then delete the parent IR.
400	PM.02175113	Parent IR not exists.	The parent IR does not exist.	Create child IRs under a correct parent IR.
400	PM.02175114	Parent IR not designated in the current project, please perform in the responsible project of this IR.	The parent IR does not belong to the current project.	Perform the operation in the responsible project of the parent IR.
400	PM.02175115	Missing edit permission of sub items.	The IR cannot be deleted because you do not have the editing permission for the project to which child work items belong.	Apply for the edit permission for the project to which child work items belong and try again.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.02175200	Missing required field {0}.	Mandatory fields are missing.	Add mandatory fields and try again.
400	PM.02175201	Field {0} has invalid value {1}.	The IR field value is invalid. (This error usually occurs due to incorrect format, such as a non-timestamp string for the time or date field.)	Send a request with a correct value.
400	PM.02175202	Plan start date cannot be later than plan due date.	The estimated start date cannot be later than the estimated due date.	Use correct parameters for estimated start date and due date.
400	PM.10001002	Invalid token.	Invalid token.	Use a valid token.
400	PM.10002006	The name of the current tenant has been used.	The name of the current tenant has been used.	Use another tenant name.
400	PM.10002010	The description cannot exceed 500 characters.	The description cannot exceed 500 characters.	Enter a description of no more than 500 characters.
400	PM.10002011	Invalid name.	Invalid name.	Use a valid name.
400	PM.10003002	The current user has insufficient permissions.	The current user has insufficient permissions.	Assign the current user corresponding permissions.
400	PM.10003003	Invitation expired.	Invitation expired.	Re-obtain an invitation.
400	PM.10003004	The review information does not exist.	The review information does not exist.	Check the review information.
400	PM.10003005	The label is in use.	The label is in use.	Check the label status.

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Status Code	Error Code	Error Message	Description	Solution
400	PM.10003006	A maximum of 100 members can be added.	A maximum of 100 members can be added.	Add no more than 100 members.
400	PM.10003007	A maximum of 100 projects can be added.	A maximum of 100 projects can be added.	Add no more than 100 projects.
400	PM.10003008	The role is not allowed.	The role is not allowed.	Use a correct role.
400	PM.10003009	The creator can exit a project after handing over the project.	The creator can exit a project after handing over the project.	The creator can exit a project after handing over the project.
400	PM.10003010	The member does not exist.	The member does not exist.	Check the member.
400	PM.10003011	The total number of projects under a tenant cannot exceed 100.	The total number of projects under a tenant cannot exceed 100.	Limit to no more than 100 projects under a tenant.
400	PM.10003014	The invitation does not exist.	The invitation does not exist.	Re-obtain an invitation.
400	PM.10003015	Only users of the same tenant can be added.	Only users of the same tenant can be added.	Add users of the same tenant.
400	PM.10003016	Adding a member failed.	Adding a member failed.	Re-add the member.
401	PM.02150401	The user does not have sufficient operation permissions.	The user does not have sufficient operation permissions.	Assign the user corresponding permissions.
403	PM.10003012	The user is a member of the project and does not need to apply for the permission.	The user is a member of the project and does not need to apply for the permission.	No need to apply for the permission.

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Status Code	Error Code	Error Message	Description	Solution
404	PM.02175005	Requested resource not exist.	The requested resource does not exist.	Confirm the requested resources. (The ID may be incorrect or the resource has been deleted.)
405	PM.10003013	An application for joining the project already exists and is waiting for approval.	An application for joining the project already exists and is waiting for approval.	Wait for approval.

6.3 Obtaining a Project ID

6.3.1 Obtaining a CodeArts Project ID

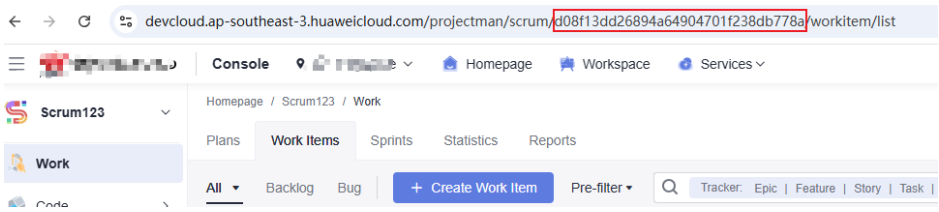
Obtaining a Project ID from the URL

Step 1 **Log in to the Huawei Cloud console** with your Huawei Cloud account.

Step 2 Click ☰ in the upper left corner and choose **Developer Services** > **CodeArts Req** from the service list.

Step 3 Click Access Service in the upper right corner of the page.

Step 4 Access the CodeArts Req page of the specified project. As shown in the following figure, the content in the red box indicates the CodeArts project ID.



----End

6.3.2 Obtaining an IAM Project ID

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to **query project information**.

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The API for obtaining a project ID is **GET https://*{Endpoint}*/v3/projects/**. ***{Endpoint}*** indicates the endpoint of IAM, which can be obtained from **Endpoints**. For details about API authentication, see **Authentication**.

In the following example, **id** indicates the project ID.

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "example",

            "description": "",
            "links": {
                "next": null,
                "previous": null,
                "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
            },
            "id": "a4a5d4098fb4474fa22cd05f897d6b99",
            "enabled": true
        }
    ],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```

Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

   Choose **My Credentials** > **API Credentials** to view the project ID in the project list.

   If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.

6.4 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

   Choose **My Credentials** > **API Credentials** to view the account ID.

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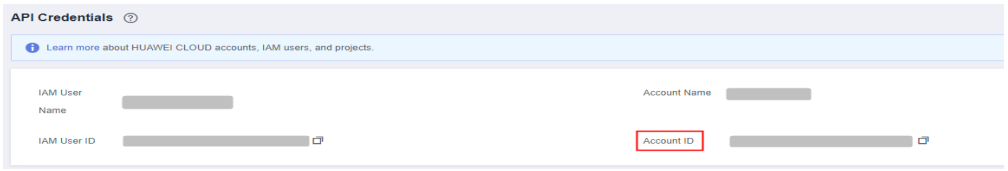
Figure 6-1 Obtaining an account ID



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7 Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Description	Release On
This issue is the second official release. It incorporates the following change: Modified the content in **Before You Start**.	March 2, 2023
This issue is the first official release.	September 30, 2022

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