Log Tank Service

API Reference

Issue 01

Date 2025-09-19

HUAWEI

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1 Before You Start

Welcome to *Log Tank Service API Reference*. LTS collects log data from hosts and cloud services. By processing massive amounts of logs efficiently, securely, and in real time, LTS provides useful insights for you to optimize the availability and performance of cloud services and applications. It also helps you efficiently perform real-time decision-making, device O&M, and service trend analysis.

Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, see **Regions and Endpoints**.

Concepts

- 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

  A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.

- AZ

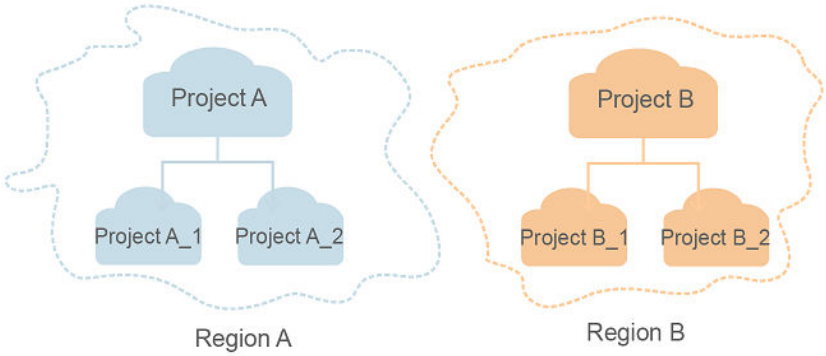
  An AZ comprises one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Compute, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.

- Project

  Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can

be granted permissions to access all resources in a specific project. For more refined access control, create sub-projects under a project and create resources in the sub-projects. Users can then be assigned permissions to access only specific resources in the sub-projects.

Figure 1-1 Project isolating model



2 Calling APIs

2.1 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 the calling of other APIs.

Request URI

A request URI is in the following format:

{URI-scheme} :// {Endpoint} / {resource-path} ? {query-string}

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

- **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 **Regions and Endpoints**.

  For example, the endpoint of IAM in the AP-Kuala Lumpur region is **iam.my-kualalumpur-1.myhuaweicloud.com**.

- **resource-path**:

  Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.

- **query-string**:

  Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "*Parameter name*=*Parameter value*". For example, **?limit=10** indicates that a maximum of 10 data records will be displayed.

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

The HTTPS protocol 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, objects.
- **HEAD**: same as GET except that the server must return only the response header.
- **PATCH**: requests a server to update a part of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to obtain a user token, the request method is **POST**. The request is as follows:

```
POST https://iam.my-kualalumpur-1.cloudalphai4.tmone.com.my/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows:

Table 2-1 Common request header fields

Parameter	Description	Mandatory	Example Value
Host	Server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of *Hostname*:*Port number*. If the port number is not specified, the default port is used. The default port number for **https** is **443**.	No This field is mandatory for AK/SK authentication.	code.test.com or code.test.com:443
Content-Type	Type (or format) of the message body. The default value **application/json** is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Length of the request body. The unit is byte.	No	3495
X-Project-Id	Project ID. Obtain the project ID by following the instructions in **Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID**.	No	e9993fc787d94b6c886cbaa340f9c0f4

Parameter	Description	Mandatory	Example Value
X-Auth-Token	User token. It is a response to the API for **obtaining a user token**. This API is the only one that does not require authentication. After the request is processed, the value of **X-Subject-Token** in the response header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ

NOTE

In addition to supporting token-based authentication, APIs also support authentication using access key ID/secret access key (AK/SK). During AK/SK-based authentication, an SDK is used to sign a 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 "AK/SK-based Authentication" in **Authentication**.

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.my-kualalumpur-1.cloudalphai4.tmone.com.my/v3/auth/tokens
Content-Type: application/json
```

Request Body (Optional)

This part is optional. A request body is often sent in a structured format (for example, JSON or XML) as defined in the **Content-Type** header field.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used to **obtain 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 ***xxxxxxxxxxxxxxxx*** (project name) with the actual values. Obtain a project name from **Regions and Endpoints**.

NOTE

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. For details, see **Obtaining a User Token**.

```
POST https://iam.my-kualalumpur-1.cloudalphai4.tmone.com.my/v3/auth/tokens
Content-Type: application/json
```



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

If all data required for the API request is available, you can send the request to call an API through **curl**, **Postman**, or coding. In the response to the API used to obtain a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

2.2 Authentication

You can use either of the following authentication methods when calling APIs:

- 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. AK/SK-based authentication is recommended because it is more secure than token-based authentication.

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 is used to acquire temporary permissions. During API authentication using a token, the token is added to requests to get permissions for calling the API.

You can obtain a token by calling the **Obtaining User Token** API. When you call the API, set **auth.scope** in the request body to **project**.

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



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

After a token is obtained, the **X-Auth-Token** header field must be added to requests 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:

```
POST https://iam.my-kualalumpur-1.cloudalphai4.tmone.com.my/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, you should use token-based authentication.

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.

NOTICE

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

2.3 Response

Status Code

After sending a request, you will receive a response, including 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 **Error 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 1 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 the calling of other APIs.

Figure 2-1 Header fields of the response to the request for obtaining a user token

Response Body (Optional)

The body of a response 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": "xxxxx",
.....
```

If an error occurs during API calling, an error code and a 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.

3 API Calling Examples

This section describes how to create a log group by calling APIs.

NOTE

The token obtained from Identity and Access Management (IAM) is valid for only 24 hours. If you want to use the same token for authentication, cache it to avoid frequent calling of the IAM API.

Involved APIs

If you use a token for authentication, you must obtain the token and add **X-Auth-Token** to the request header when making an API call.

- IAM API used to obtain the token
- LTS API used to create a log group

Procedure

1. Obtain the token by referring to **Making an API Request**.
2. Send **POST /v2/{project_id}/groups**.
3. Add **Content-Type** and **X-Auth-Token** to the request header.
4. Specify the following parameters in the request body:

```
POST /v2/{project_id}/groups
{
"log_group_name":"test001", //Log group name (The parameter is mandatory and its value is a string.)
"ttl_in_days":"7", //Log expiration time (The value is an integer. Retain the default value.)
}
```

If the request is successful, information about the created log group is returned.

```
{
"log_group_id":"2a0089e4-3001-11e9-9e9d-286ed48xxx", //Log group ID (The value is a string.)
}
```

If the request fails, an error code and error description are returned. For details, see **Error Codes**.

4 APIs

All API URIs described in this chapter are case-sensitive.

4.1 Host Group Management

4.1.1 Querying Host Information

Function

Query the host list.

URI

POST /v3/{project_id}/lts/host-list

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=utf8**. Minimum: **30** Maximum: **30**

Table 4-3 Request body parameters

Parameter	Mandatory	Type	Description
host_id_list	No	Array of strings	Host ID list. You can filter hosts by host ID. Minimum: **36** Maximum: **36**
filter	Yes	**GetHostListFilter** object	Filters other than host IDs.

Table 4-4 GetHostListFilter

Parameter	Mandatory	Type	Description
host_name_list	No	Array of strings	Host name list. You can filter hosts by host name. Minimum: **1** Maximum: **128**
host_ip_list	No	Array of strings	List of host IP addresses. You can filter hosts by host IP address. Minimum: **1** Maximum: **16**

Parameter	Mandatory	Type	Description
host_status	No	String	Host status. You can filter hosts by host status. • **uninstall**: not installed. • **running**: running. • **offline**: offline. • **error**: abnormal. • **plugin error**: plug-in error. • **installing**: installing. • **install-fail**: Installation failed. • **upgrading**: upgrading. • **upgrade failed**: Upgrade failed. • **uninstalling**: being uninstalled. • **authentication error**: Authentication failed.
host_version	No	String	Host version. You can filter hosts by host version. Minimum: **1** Maximum: **16**

Response Parameters

Status code: 200

Table 4-5 Response body parameters

Parameter	Type	Description
result	Array of **GetHostListInfo** objects	Host list.
total	Long	Total number of hosts.

Table 4-6 GetHostListInfo

Parameter	Type	Description
host_id	String	Host ID.
host_ip	String	Host IP.

Parameter	Type	Description
host_name	String	Host name.
host_status	String	Host status. • **uninstall**: not installed. • **running**: running. • **offline**: offline. • **error**: abnormal. • **plugin error**: plug-in error. • **installing**: installing. • **install-fail**: Installation failed. • **upgrading**: upgrading. • **upgrade failed**: Upgrade failed. • **uninstalling**: being uninstalled. • **authentication error**: Authentication failed.
host_type	String	Host type. • Windows • Linux
host_version	String	Host version.
update_time	Long	Update time.

Status code: 400

Table 4-7 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-8 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Hosts are sorted by filters specified in the request body. If no filters are configured in the body, all host groups are queried.

```
POST https://{endpoint}/v3/{project_id}/lts/host-list

{
  "host_id_list" : [ "713a9f81-574b-45aa-92df-24c4caxxxxxx", "c7085aa9-2142-4ada-9f78-bf81ffxxxxxx" ],
  "filter" : {
    "host_name_list" : [ "ecs-xxxx", "10.66.16xxx" ],
    "host_ip_list" : [ "192.168xxxx" ],
    "host_status" : "running",
    "host_version" : "5.13.xxxx"
  }
}
```

Example Responses

Status code: 200

The host query is successful.

```
{
  "result" : [ {
    "host_id" : "dc1dab7e-b045-4e77-bda4-914xxxxxx",
    "host_ip" : "172.16.xxxx",
    "host_name" : "ecs-apmtexxxxxx",
    "host_status" : "running",
    "host_type" : "linux",
    "host_version" : "5.13.xx.x",
    "update_time" : 1637223314526
  } ],
  "total" : 1
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid host id"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	The host query is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.

Status Code	Description
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.1.2 Querying Host Groups

Function

Query the host group list.

URI

POST /v3/{project_id}/lts/host-group-list

Table 4-9 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-11 Request body parameters

Parameter	Mandatory	Type	Description
host_group_id_list	No	Array of strings	List of host group IDs. Minimum: **36** Maximum: **36**
filter	Yes	**GetHostGroupListFilter** object	Host group filters.

Table 4-12 GetHostGroupListFilter

Parameter	Mandatory	Type	Description
host_group_type	No	String	Host group type. • Windows • Linux
host_group_name_list	No	Array of strings	List of host group names. Minimum: **1** Maximum: **64**
host_name_list	No	Array of strings	Host name list. Minimum: **1** Maximum: **128**
host_group_tag	No	**GetHostGroupListTag** object	Host group tags.

Table 4-13 GetHostGroupListTag

Parameter	Mandatory	Type	Description
tag_type	No	String	Tag type. Tag filtering logic: **AND** or **OR**.

Parameter	Mandatory	Type	Description
tag_list	No	Array of **HostGroupTag** objects	Host group tags.

Table 4-14 HostGroupTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	No	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-15 Response body parameters

Parameter	Type	Description
result	Array of **GetHostGroupInfo** objects	Host group list.
total	Long	Total number of host groups.

Table 4-16 GetHostGroupInfo

Parameter	Type	Description
host_group_id	String	Host group ID.
host_group_name	String	Host group name.
host_group_type	String	Host group type.
host_id_list	Array of strings	Host ID list.

Parameter	Type	Description
host_group_tag	Array of **HostGroupTagResBody** objects	Tag information.
create_time	Long	Creation time.
update_time	Long	Update time.
labels	Array of strings	Host group ID.
agent_access_type	String	Host access type.

Table 4-17 HostGroupTagResBody

Parameter	Type	Description
key	String	Tag key.
value	String	Tag value.
tags_to_streams_enable	Boolean	Whether to apply the tag to the log stream. Only a tag of a log group can be directly applied to its log stream.

Status code: 400

Table 4-18 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-19 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Host groups are sorted by filters specified in the request body. If no filters are configured in the body, all host groups are queried.

```
POST https://{endpoint}/v3/{project_id}/lts/host-group-list

{
  "host_group_id_list" : [ "bca6d903-3528-42a8-91f4-586722cxxxxx" ],
  "filter" : {
    "host_group_type" : "linux",
    "host_group_name_list" : [ "wjyTxxx" ],
    "host_name_list" : [ "ecs-apmtexxxdeletion" ],
    "host_group_tag" : {
      "tag_type" : "AND",
      "tag_list" : [ {
        "key" : "xxx",
        "value" : "xxx",
        "tags_to_streams_enable" : true
      } ]
    }
  }
}
```

Example Responses

Status code: 200

The host group query is successful.

```
{
  "result" : [ {
    "host_group_id" : "598c77aa-c69b-42f0-8cb8-xxxx5b38",
    "host_group_name" : "wjyTxxx",
    "host_group_type" : "linux",
    "host_id_list" : [ "dc1dab7e-b04xxxx", "xxxxx" ],
    "host_group_tag" : [ {
      "key" : "xxx",
      "value" : "xxx"
    } ],
    "create_time" : 1635459410332,
    "update_time" : 163560332
  } ],
  "total" : 1
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid host group id"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```


Status Codes

Status Code	Description
200	The host group query is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.1.3 Creating a Host Group

Function

Create a host group.

URI

POST /v3/{project_id}/lts/host-group

Table 4-20 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-21 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-22 Request body parameters

Parameter	Mandatory	Type	Description
host_group_name	Yes	String	Host group name. Use only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period. Minimum: **1** Maximum: **64**
host_group_type	Yes	String	Host group type. • Windows • Linux
host_id_list	No	Array of strings	List of host group IDs. The host type must be the same as the host group type. Minimum: **36** Maximum: **36**
host_group_tag	No	Array of **HostGroupTag** objects	Tag information. You can add up to 20 tags.
agent_access_type	No	String	Host access type. • **LABEL** • **IP**

Parameter	Mandatory	Type	Description
labels	No	Array of strings	Host group ID. If the host access type is **LABEL**, this field saves the host group ID.

Table 4-23 HostGroupTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	No	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-24 Response body parameters

Parameter	Type	Description
host_group_id	String	Host group ID.
host_group_name	String	Host group name.
host_group_type	String	Host group type.
host_id_list	Array of strings	Host ID list.
host_group_tag	Array of **HostGroupTagResBody** objects	Tag information.
create_time	Long	Creation time.
update_time	Long	Update time.
labels	Array of strings	Host group ID.
agent_access_type	String	Host access type.

Table 4-25 HostGroupTagResBody

Parameter	Type	Description
key	String	Tag key.
value	String	Tag value.
tags_to_streams_enable	Boolean	Whether to apply the tag to the log stream. Only a tag of a log group can be directly applied to its log stream.

Status code: 400

Table 4-26 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-27 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Create a host group. Parameters host_group_name and host_group_type are mandatory.

```
POST https://{endpoint}/v3/{project_id}/lts/host-group

{
  "host_group_name" : "APIxx3",
  "host_group_type" : "linux",
  "host_id_list" : [ "dc1dab7e-b045-4e77xxd1bf7", "713a9fxx2df-24c4ca599def" ],
  "host_group_tag" : [ {
    "key" : "xxx",
    "value" : "xxx",
    "tags_to_streams_enable" : false
  } ]
}
```

Example Responses

Status code: 200

The host group is created.

```
{
  "host_group_id" : "598c77aa-c69b-42f0-8cb8-983178ad5b38",
  "host_group_name" : "APIxx3",
  "host_group_type" : "linux",
  "host_id_list" : [ "dc1dab7e-b045-4e77-bda4-914d083d1bf7" ],
  "host_group_tag" : [ {
    "key" : "xxx",
    "value" : "xxx",
    "tags_to_streams_enable" : true
  } ],
  "create_time" : 1635149410332,
  "update_time" : 1635149410332
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.1812",
  "error_msg" : "Invalid host group id"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	The host group is created.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.1.4 Deleting a Host Group

Function

Delete a host group.

URI

DELETE /v3/{project_id}/lts/host-group

Table 4-28 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-29 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-30 Request body parameters

Parameter	Mandatory	Type	Description
host_group_id_list	Yes	Array of strings	List of host group IDs. Minimum: **36** Maximum: **36**

Response Parameters

Status code: 200

Table 4-31 Response body parameters

Parameter	Type	Description
result	Array of **GetHostGroupInfo** objects	Host group details.
total	Long	Number of deleted host groups. Minimum: **0** Maximum: **1000**

Table 4-32 GetHostGroupInfo

Parameter	Type	Description
host_group_id	String	Host group ID.
host_group_name	String	Host group name.
host_group_type	String	Host group type.
host_id_list	Array of strings	Host ID list.
host_group_tag	Array of **HostGroupTagResBody** objects	Tag information.
create_time	Long	Creation time.
update_time	Long	Update time.
labels	Array of strings	Host group ID.
agent_access_type	String	Host access type.

Table 4-33 HostGroupTagResBody

Parameter	Type	Description
key	String	Tag key.
value	String	Tag value.
tags_to_streams_enable	Boolean	Whether to apply the tag to the log stream. Only a tag of a log group can be directly applied to its log stream.

Status code: 400

Table 4-34 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-35 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Delete one or multiple host groups at a time.

```
DELETE https://{endpoint}/v3/{project_id}/lts/host-group

/v3/{project_id}/lts/host-group
{"host_group_id_list":["xxxx","xxxx"]}
```

Example Responses

Status code: 200

Host groups are deleted.

```
{
   "result" : [{
         "host_group_id" : "598c77aa-c69b-42f0-8cb8-xxxx5b38",
         "host_group_name" : "devspoxxxou1",
         "host_group_type" : "linux",
         "host_id_list" : ["dc1dab7e-b04xxxx", "xxxxx"],
         "host_group_tag" : [{
               "key" : "xxx",
               "value" : "xxx"
            }, {
               "key" : "xxx",
               "value" : "xxx"
            }
         ],
         "create_time" : 1635xx9410332,
         "update_time" : 163xx0332
      }
   ],
   "total" : 1
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
  "error_code" : "LTS.1812",
  "error_msg" : "Invalid host group id"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	Host groups are deleted.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.1.5 Modifying a Host Group

Function

Modify a host group.

URI

PUT /v3/{project_id}/lts/host-group

Table 4-36 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-37 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-38 Request body parameters

Parameter	Mandatory	Type	Description
host_group_id	Yes	String	Host group ID. Minimum: **36** Maximum: **36**
host_group_name	No	String	Host group name. Use only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period. Minimum: **1** Maximum: **64**
host_id_list	No	Array of strings	Host ID list. The host type must be the same as the host group type. Minimum: **36** Maximum: **36**
host_group_tag	No	Array of **HostGroupTag** objects	Host group tags. A key must be unique. Up to 20 keys are allowed.

Table 4-39 HostGroupTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore ()*. Max 128 characters are allowed.
value	No	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-40 Response body parameters

Parameter	Type	Description
host_group_id	String	Host group ID.
host_group_name	String	Host group name.
host_group_type	String	Host group type.
host_id_list	Array of strings	Host ID list.
host_group_tag	Array of **HostGroupTag** objects	Tag information.
create_time	Long	Creation time.
update_time	Long	Update time.

Table 4-41 HostGroupTag

Parameter	Type	Description
key	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore ()*. Max 128 characters are allowed.

Parameter	Type	Description
value	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Status code: 400

Table 4-42 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-43 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Update a host group. Parameter host_group_id is mandatory.

```
PUT https://{endpoint}/v3/{project_id}/lts/host-group

{
  "host_group_id" : "xxxxxx",
  "host_group_name" : "qweqwe",
  "host_id_list" : [ "host_id_1", "host_id_2" ],
  "host_group_tag" : [ {
    "key" : "xxx",
    "value" : "xxx"
  } ]
}
```

Example Responses

Status code: 200

The host group is modified.

```
{
  "host_group_id" : "xxxxxx",
  "host_group_name" : "qweqwe",
  "host_group_type" : "linux",
```



```
  "host_id_list" : [ "host_id_1", "host_id_2" ],
  "host_group_tag" : [ {
    "key" : "xxx",
    "value" : "xxx"
  } ],
  "create_time" : 16351494332,
  "update_time" : 16351494332
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid host group id"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	The host group is modified.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.2 Log Group Management

4.2.1 Creating a Log Group

Function

This API is used to create a log group.

URI

POST /v2/{project_id}/groups

Table 4-44 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-45 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-46 Request body parameters

Parameter	Mandatory	Type	Description
log_group_name	Yes	String	Name of the log group to be created. The configuration rules are as follows: A name can contain 1 to 64 characters, including only letters, digits, underscores (_), hyphens (-), and periods (.). It cannot start with a period or underscore or end with a period. Minimum: **1** Maximum: **64**
ttl_in_days	Yes	Integer	Log retention duration. (Default: 30 days) Minimum: **1** Maximum: **365**
tags	No	Array of **tagsBody** objects	Tag field information.
log_group_name_alias	No	String	Log group alias.

Table 4-47 tagsBody

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	Yes	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 201

Table 4-48 Response body parameters

Parameter	Type	Description
log_group_id	String	ID of the created log group. Minimum: **36** Maximum: **36**

Status code: 400

Table 4-49 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-50 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-51 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-52 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 503

Table 4-53 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Creating a log group

```
POST https://{endpoint}/v2/{project_id}/groups

{
  "log_group_name" : "lts-group-01nh",
  "ttl_in_days" : 7
}
```

Example Responses

Status code: 201

The request is successful and the log group has been created.

```
{
  "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2d664"
}
```

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Failed to create log group"
}
```

Status Codes

Status Code	Description
201	The request is successful and the log group has been created.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See **Error Codes**.

4.2.2 Querying All Log Groups of an Account

Function

This API is used to query all log groups of an account.

URI

GET /v2/{project_id}/groups

Table 4-54 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-55 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-56 Response body parameters

Parameter	Type	Description
log_groups	Array of **LogGroup** objects	Log group information.

Table 4-57 LogGroup

Parameter	Type	Description
creation_time	Long	Log group creation time.
log_group_name	String	Log group name. Minimum: **1** Maximum: **64**
log_group_id	String	Log group ID. Minimum: **36** Maximum: **36**
ttl_in_days	Integer	Log retention duration (days). Minimum: **1** Maximum: **365**
tag	Map<String,String>	Log group tag.

Status code: 401

Table 4-58 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-59 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-60 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying All Log Groups of an Account

```
GET https://{endpoint}/v2/{project_id}/groups

/v2/{project_id}/groups
```

Example Responses

Status code: 200

The request is successful.

```
{
  "log_groups" : [ {
    "creation_time" : 1630547141853,
    "log_group_name" : "lts-group-01nh",
    "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2d664",
    "ttl_in_days" : 7
  } ]
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```


Status Codes

Status Code	Description
200	The request is successful.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.2.3 Deleting a Log Group

Function

This API is used to delete a specified log group. If log transfer is enabled for log streams in a log group, you need to disable the log transfer before the deletion.

URI

DELETE /v2/{project_id}/groups/{log_group_id}

Table 4-61 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-62 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 400

Table 4-63 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-64 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-65 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-66 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Deleting a log group

```
DELETE https://{endpoint}/v2/{project_id}/groups/{log_group_id}

/v2/{project_id}/groups/{log_group_id}
```

Example Responses

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0201",
  "error_msg" : "The log group is not existed"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
```



```
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0103",
  "error_msg" : "Failed to delete log group"
}
```

Status Codes

Status Code	Description
204	The request is successful and the log group has been deleted.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.2.4 Modifying a Log Group

Function

This API is used to modify the log retention duration of a specified log group.

URI

POST /v2/{project_id}/groups/{log_group_id}

Table 4-67 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-68 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-69 Request body parameters

Parameter	Mandatory	Type	Description
ttl_in_days	Yes	Integer	Log retention duration (days). Minimum value: **1** Maximum value: **365**
tags	No	Array of **tagsBody** objects	Tag field information.

Table 4-70 tagsBody

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	Yes	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-71 Response body parameters

Parameter	Type	Description
creation_time	Long	Indicates the time when a log group was created, in milliseconds.
log_group_name	String	Log group name.
log_group_id	String	Log group ID.
ttl_in_days	Integer	Log retention period.

Status code: 400

Table 4-72 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-73 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-74 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-75 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Modifying a log group

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}

{
  "ttl_in_days" : 8
}
```


Example Responses

Status code: 200

The request is successful and the log group has been modified.

```
{
  "creation_time" : 156541515155541,
  "log_group_name" : "groupName",
  "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2",
  "ttl_in_days" : 8
}
```

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Failed to update log group"
}
```

Status Codes

Status Code	Description
200	The request is successful and the log group has been modified.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

Status Code	Description
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.3 Log Stream Management

4.3.1 Creating a Log Stream

Function

This API is used to create a log stream in a specified log group.

URI

POST /v2/{project_id}/groups/{log_group_id}/streams

Table 4-76 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-77 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-78 Request body parameters

Parameter	Mandatory	Type	Description
log_stream_name	Yes	String	Name of the log stream to be created. Minimum: **1** Maximum: **64**
ttl_in_days	No	Integer	Log retention duration. Minimum value: **1** Maximum value: **365**
tags	No	Array of **tagsBody** objects	Tag field information.
log_stream_name_alias	No	String	Log stream alias. Minimum: **1** Maximum: **64**

Parameter	Mandatory	Type	Description
enterprise_project_name	No	String	Enterprise project name. **NOTE** A project name can only contain letters, digits, underscores (_), and hyphens (-). It cannot contain the word **default** in any form. The description can contain up to 512 characters. Minimum: **1** Maximum: **255**

Table 4-79 tagsBody

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	Yes	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 201

Table 4-80 Response body parameters

Parameter	Type	Description
log_stream_id	String	ID of the created log stream.

Status code: 400

Table 4-81 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-82 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-83 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Creating a log stream

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams

{
  "log_stream_name" : "lts-stream-02kh"
}
```


Example Responses

Status code: 201

The request is successful and the log stream has been created.

```
{
  "log_stream_id" : "c54dbc58-0fd8-48ed-b007-6d54981427a7"
}
```

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Failed to create Log stream"
}
```

Status Codes

Status Code	Description
201	The request is successful and the log stream has been created.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.

Status Code	Description
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.3.2 Querying All Log Streams in a Specified Log Group

Function

This API is used to query information about all log streams in a specified log group.

URI

GET /v2/{project_id}/groups/{log_group_id}/streams

Table 4-85 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-86 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-87 Response body parameters

Parameter	Type	Description
log_streams	Array of **LogStreamResBody** objects	Log stream.

Table 4-88 LogStreamResBody

Parameter	Type	Description
creation_time	Long	Creation time.
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
tag	Map<String,String>	Log stream tags.
filter_count	Integer	Number of filters.
is_favorite	Boolean	Whether to add a log stream to favorites.

Status code: 401

Table 4-89 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-90 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-91 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying All Log Streams in a Specified Log Group

```
GET https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams

/v2/{project_id}/groups/{log_group_id}/streams
```

Example Responses

Status code: 200

The request is successful.

```
{
  "log_streams" : [ {
    "creation_time" : 1630549842955,
    "log_stream_name" : "lts-stream-02kh",
    "log_stream_id" : "c54dbc58-0fd8-48ed-b007-6d54981427a7",
    "filter_count" : 0
  } ]
}
```


Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	The request is successful.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.3.3 Querying Log Streams

Function

This API is used to query log streams.

URI

GET /v2/{project_id}/log-streams

Table 4-92 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-93 Query Parameters

Parameter	Mandatory	Type	Description
log_group_name	No	String	Log group name. Minimum: **1** Maximum: **64**
log_stream_name	No	String	Log stream name. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-94 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-95 Response body parameters

Parameter	Type	Description
log_streams	Array of **LogStreamNoIsFavorite** objects	List of log groups.

Table 4-96 LogStreamNoIsFavorite

Parameter	Type	Description
creation_time	Long	Time when a log stream is created.
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
tag	Map<String,String>	Log stream tag.
filter_count	Integer	Number of filters.

Status code: 400

Table 4-97 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-98 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

If you leave the request body empty, all log streams are queried. If **log_group_name** and **log_stream_name** are specified, the corresponding log stream is queried.

```
GET https://{endpoint}/v2/{project_id}/log-streams

/v2/{project_id}/log-streams /v2/{project_id}/log-streams?log_group_name=lts-group-txxxx
/v2/{project_id}/log-streams?log_stream_name=lts-xunjian-topic-xxxx
/v2/{project_id}/log-streams?log_stream_name=lts-xunjian-topic-xxxx&log_group_name=lts-group-xxx
```

Example Responses

Status code: 200

Log stream information is returned.

```
{
  "log_streams" : [ {
    "creation_time" : 1633600371062,
    "log_stream_name" : "lts-topic-test2",
    "tag" : {
      "_sys_enterprise_project_id" : "0",
      "W" : "J"
    },
    "filter_count" : 0,
    "log_stream_id" : "c4de0538-53e6-41fd-b951-a8669fce58d7"
  } ]
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0205",
  "error_msg" : "The log stream name has been existed"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	Log stream information is returned.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.3.4 Deleting a Log Stream

Function

This API is used to delete a specified log stream from a specified log group. If log transfer is enabled for a log stream, you need to disable the log transfer before the deletion.

URI

DELETE /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}

Table 4-99 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
log_stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-100 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 400

Table 4-101 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-102 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-103 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-104 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Deleting a log stream

```
DELETE https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}

/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}
```

Example Responses

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0208",
  "error_msg" : "The log stream does not existed"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```


Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0203",
  "error_msg" : "Failed to delete Log stream"
}
```

Status Codes

Status Code	Description
204	The request is successful and the log stream has been deleted.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.3.5 Modifying a Log Stream

Function

This API is used to modify the log retention duration of a specified log stream.

URI

PUT /v2/{project_id}/groups/{log_group_id}/streams-ttl/{log_stream_id}

Table 4-105 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum length: 36 characters. Maximum length: 36 characters.
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum length: 36 characters. Maximum length: 36 characters.
log_stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum length: 36 characters. Maximum length: 36 characters.

Request Parameters

Table 4-106 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum length: 1000 characters; Maximum length: 2000 characters.

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum length: 30 characters. Maximum length: 30 characters.

Table 4-107 Request body parameters

Parameter	Mandatory	Type	Description
ttl_in_days	Yes	Integer	Log retention duration (days). Minimum: **1** Maximum: **365**
tags	No	Array of **tagsBody** objects	Tag field information.

Table 4-108 tagsBody

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	Yes	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-109 Response body parameters

Parameter	Type	Description
creation_time	Long	Time when a log stream is created.
log_topic_name	String	Name of a log stream.
log_topic_id	String	Log stream ID.
ttl_in_days	Integer	Log retention duration (days).

Status code: 400

Table 4-110 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-111 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-112 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-113 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Modify a log stream.

```
PUT https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams-ttl/{log_stream_id}

{
  "ttl_in_days" : 8
}
```

Example Responses

Status code: 200

The request has succeeded and the log group has been modified.

```
{
  "creation_time" : 1629947408497,
  "log_topic_name" : "string",
  "log_topic_id" : "string",
  "ttl_in_days" : 8
}
```

Status code: 400

BadRequest. Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden. The request is 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError. The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0204",
  "error_msg" : "Failed to update log stream"
}
```

Status Codes

Status Code	Description
200	The request has succeeded and the log group has been modified.
400	BadRequest. Invalid request. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden. The request is 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.
500	InternalServerError. The server has received the request but encountered an internal error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See **Error Codes**.

4.3.6 Creating an Index for a Specified Log Stream

Function

This API is used to create an index for a specified log stream.

URI

POST /v1.0/{project_id}/groups/{group_id}/stream/{stream_id}/index/config

Table 4-114 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-115 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**.
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**.

Table 4-116 Request body parameters

Parameter	Mandatory	Type	Description
logStreamId	No	String	Log stream ID.

Parameter	Mandatory	Type	Description
fullTextIndex	Yes	**LTSFullTextIndexInfo** object	Full-text indexing configuration.
fields	No	Array of **LTSFieldsInfo** objects	Field indexing configuration.

Table 4-117 LTSFullTextIndexInfo

Parameter	Mandatory	Type	Description
enable	Yes	Boolean	Whether to enable full-text indexing.
caseSensitive	Yes	Boolean	Whether the value of the field is case-sensitive.
includeChinese	Yes	Boolean	Whether Chinese characters are contained.
tokenizer	Yes	String	Custom delimiter. Minimum: **0** Maximum: **128**
ascii	No	Array of strings	Special delimiter. Minimum: **1** Maximum: **3**

Table 4-118 LTSFieldsInfo

Parameter	Mandatory	Type	Description
fieldType	Yes	String	Field type.
fieldName	Yes	String	Field name. Minimum: **1** Maximum: **256**
caseSensitive	No	Boolean	Whether the value of the field is case-sensitive.
includeChinese	No	Boolean	Whether Chinese characters are contained.

Parameter	Mandatory	Type	Description
tokenizer	Yes	String	Delimiter. Minimum: **0** Maximum: **128**
quickAnalysis	No	Boolean	Whether to enable quick analysis.
ascii	No	Array of strings	Special delimiter.

Response Parameters

Status code: 200

Table 4-119 Response body parameters

Parameter	Type	Description
errorCode	String	Error code.
errorMessage	String	Error message.
result	String	Result.
isQueryComplete	Boolean	Whether the query is complete.

Status code: 400

Table 4-120 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-121 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-122 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

This API is used to create an index for a specified log stream.

```
POST https://{endpoint}/v1.0/{project_id}/groups/{group_id}/stream/{stream_id}/index/config

{
  "logStreamId" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "fullTextIndex" : {
    "enable" : true,
    "caseSensitive" : false,
    "includeChinese" : true,
    "tokenizer" : ", '\";=()[]{}@&<>/:\\n\\t\\r"
  },
  "fields" : [ {
    "fieldType" : "long",
    "fieldName" : "fieldName1"
  }, {
    "fieldType" : "string",
    "fieldName" : "fieldName2",
    "caseSensitive" : false,
    "includeChinese" : true,
    "tokenizer" : "",
    "quickAnalysis" : true
  } ]
}
```

Example Responses

Status code: 200

Indexing is added successfully.

```
{
  "errorCode" : "SVCSTG.ALS.200200",
  "errorMessage" : "add or update indexConfig successfully",
  "isQueryComplete" : true,
  "result" : "493d04ce-5130-4b07-88be-c5ae3b50bccb"
}
```

Status code: 400

Incorrect request parameter . Modify the parameter based on the response body.

```
{
  "errorCode" : "SVCSTG.ALS.200201",
  "errorMessage" : "IndexConfigInfo check failed.",
  "isQueryComplete" : true
}
```

Status code: 401

Authentication failed. Check whether the authentication information has expired.


```
{
  "error_msg" : "Incorrect IAM authentication information: decrypt token fail",
  "error_code" : "APIGW.0301",
  "request_id" : "b16cc9d789f34cd5196d8df065341788"
}
```

Status code: 500

The service backend has received the request, but an internal processing error occurs.

```
{
  "error_code" : "LTS.0203",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	Indexing is added successfully.
400	Incorrect request parameter . Modify the parameter based on the response body.
401	Authentication failed. Check whether the authentication information has expired.
500	The service backend has received the request, but an internal processing error occurs.

Error Codes

See **Error Codes**.

4.4 Log Management

4.4.1 Removing a Resource from Favorites

Function

This API is used to remove a specified resource from favorites.

URI

DELETE /v1.0/{project_id}/lts/favorite/{fav_res_id}

Table 4-123 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
fav_res_id	Yes	String	ID of a favorite resource, including its log group or stream.

Request Parameters

Table 4-124 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-125 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-126 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 400

Table 4-127 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-128 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-129 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-130 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Removing from Favorites

```
DELETE /v1.0/{project_id}/lts/favorite/{fav_res_id}
```


Example Responses

Status code: 200

Removed from favorites.

```
none
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0009",
    "details" : "update favorite failed"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

Status Codes

Status Code	Description
200	Removed from favorites.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.4.2 Collecting Traffic Statistics on Top N Log Groups or Log Streams

Function

This API is used to collect traffic statistics on top n log groups or log streams.

URI

POST /v2/{project_id}/lts/topn-traffic-statistics

Table 4-131 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-132 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-133 Request body parameters

Parameter	Mandatory	Type	Description
end_time	Yes	Long	End timestamp, in milliseconds.
is_desc	Yes	Boolean	Whether to sort data in descending order (**true** or **false**).
resource_type	Yes	String	Resource type. **log_group**: log group **log_stream**: log stream **tenant**: tenant

Parameter	Mandatory	Type	Description
sort_by	Yes	String	Sorting. Data to be sorted must exist in **search_list**. **index**: index **write**: read and write **storage**: storage
start_time	Yes	Long	Start timestamp of the query, in milliseconds. A maximum of 30 days are supported.
topn	Yes	Integer	Number of data records to be queried. The value ranges from 1 to 100.
filter	Yes	Map<String,String>	Filter, which is in a map structure with keys as filtering attributes and values as attribute values. It does not support fuzzy match. The format for filter criteria is {"key": "xxxxxx"}, where **key** can be **log_group_id** or **log_stream_id**.
search_list	Yes	Array of strings	Query data type. Multiple string arrays can be used together. **index**: index **write**: read and write **storage**: storage

Response Parameters

Status code: 200

Table 4-134 Response body parameters

Parameter	Type	Description
results	Array of **ResultsTopnBody** objects	Response result.

Table 4-135 ResultsTopnBody

Parameter	Type	Description
index_traffic	Double	Index traffic, in bytes. This parameter is returned when the queried data type contains **index**.
storage	Double	Storage capacity, in bytes. This parameter is returned when the queried data type contains **storage**.
write_traffic	Double	Write traffic, in bytes. This parameter is returned when the queried data type contains **write**.
log_group_id	String	Log group ID. This parameter is returned when the resource type is log group.
log_group_name	String	Log group name. This parameter is returned when the resource type is log group.
log_stream_id	String	Log stream ID. This parameter is returned when the resource type is log stream.
log_stream_name	String	Log stream name. This parameter is returned when the resource type is log stream.
log_group_name_alias	String	Log group alias, which is the same as the log group name by default. The alias is preferentially displayed.
log_stream_name_alias	String	Log stream alias, which is the same as the log stream name by default. The alias is preferentially displayed.

Status code: 400

Table 4-136 Response body parameters

Parameter	Type	Description
errorCode	String	Error code.
errorMessage	String	Error message.

Status code: 500

Table 4-137 Response body parameters

Parameter	Type	Description
errorCode	String	Error code.
errorMessage	String	Error message.

Example Requests

Collecting Traffic Statistics on Top N Log Groups or Log Streams

```
POST /v2/2a473356cca5487f8373be891bffc1cf/lts/topn-traffic-statistics

{
  "sort_by" : "storage",
  "is_desc" : true,
  "resource_type" : "log_stream",
  "filter" : { },
  "start_time" : 1668668183969,
  "end_time" : 1669272983969,
  "search_list" : [ "index", "write", "storage" ],
  "topn" : 100
}
```

Example Responses

Status code: 200

Query succeeded.

```
{
  "results" : [ {
    "index_traffic" : 0,
    "log_stream_id" : "6fd93d47-7630-4284-a622-311d0082f6bb",
    "log_stream_name" : "cmdb-cce-cluster",
    "storage" : 59810657587,
    "write_traffic" : 0
  }, {
    "index_traffic" : 0,
    "log_stream_id" : "504ec3dd-ac28-4783-babb-22a49f36afe3",
    "log_stream_name" : "CMSkaifatest",
    "storage" : 20033606015,
    "write_traffic" : 0
  }, {
    "index_traffic" : 6825703991,
    "log_stream_id" : "a14dacb0-5a13-43a8-89a3-ea5424d95133",
    "log_stream_name" : "ELB",
    "storage" : 15659303771,
    "write_traffic" : 1.3651407982E9
  }, {
    "index_traffic" : 302172889,
    "log_stream_id" : "25fe7494-7395-438e-8340-647613673ffa",
    "log_stream_name" : "LTStest-916-statefulset",
    "storage" : 316552589,
    "write_traffic" : 6.04345778E7
  }, {
    "index_traffic" : 0,
    "log_stream_id" : "956586fc-b828-44be-8672-0a323962a8fa",
    "log_stream_name" : "mongodb_slow",
    "storage" : 0,
    "write_traffic" : 0
  } ]
}
```


Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "errorCode" : "LTS.0208",
  "errorMessage" : "The log stream does not existed"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "errorCode" : "LTS.0203",
  "errorMessage" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	Query succeeded.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.4.3 Querying the Log Histogram

Function

This API is used to query the distribution of reported log events that contain a specified keyword over a certain period. If no keyword is specified, the distribution of all log events reported over the period is returned.

URI

POST /v2/{project_id}/lts/keyword-count

Table 4-138 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-139 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-140 Request body parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time, which is a timestamp accurate to millisecond.
end_time	Yes	String	End time, which is a timestamp accurate to millisecond.

Parameter	Mandatory	Type	Description
step_interval	Yes	Long	Time step, in milliseconds (ms). Recommended formula: (end_time-start_time)/1000 x 1000/60, where /1000 x 1000 means rounding to an integer. **NOTE** If the calculated result is less than or equal to 1000, the value 1000 is used.
group_id	Yes	String	Log group ID. Minimum: **36** Maximum: **36**
stream_id	Yes	String	Log stream ID. Minimum: **36** Maximum: **36**
key_word	Yes	String	A keyword is a word between two adjacent delimiters.
is_iterative	No	Boolean	Whether the log query is iterative. The default value is **false**, indicating that the log query is not iterative.

Response Parameters

Status code: 200

Table 4-141 Response body parameters

Parameter	Type	Description
count	Long	Number of logs.
histogram	Map<String,**HistogramResponseBody**>	Histogram result.
isQueryComplete	Boolean	Whether the query is complete.

Table 4-142 HistogramResponseBody

Parameter	Type	Description
count	Long	Total number of log events.
histogram	**histogram** object	Log histogram.
isQueryComplete	Boolean	Whether the query is complete.

Table 4-143 histogram

Parameter	Type	Description
num	Long	Number of log events in a time range.
startTime	String	Start time of a time range, in milliseconds.
endTime	String	End time of a time range, in milliseconds.

Status code: 400

Table 4-144 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-145 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying the log histogram

```
POST https://{endpoint}/v2/{project_id}/lts/keyword-count

{
  "group_id" : "00330565-5baf-4e0d-bd16-ba0c6b951d9a",
```



```
  "stream_id" : "715cda3b-e17f-492a-a6ca-98a1ba16ad8c",
  "end_time" : 1637820813605,
  "start_time" : 1637817213605,
  "key_word" : "test",
  "step_interval" : 6000
}
```

Example Responses

Status code: 200

The query is successful.

```
{
  "count" : 1,
  "histogram" : [ {
    "num" : 1,
    "startTime" : 1637821594579,
    "endTime" : 1637821595000
  }, {
    "num" : 0,
    "startTime" : 1637821654000,
    "endTime" : 1637821654579
  } ],
  "isQueryComplete" : true
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0601",
  "error_msg" : "must be less than or equal to 86400000"
}
```

Status code: 500

InternalServerError. The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	The query is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.4.4 Adding a Log to Favorites

Function

This API is used to add a log to favorites.

URI

POST /v1.0/{project_id}/lts/favorite

Table 4-146 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-147 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**.
Content-Type	Yes	String	Set this parameter to **application/json;charset=utf8**.

Table 4-148 Request body parameters

Parameter	Mandatory	Type	Description
eps_id	No	String	Enterprise project ID.
favorite_resource_id	Yes	String	Favorite resource ID.

Parameter	Mandatory	Type	Description
favorite_resource_type	Yes	String	Favorite resource type. • **LOG_STREAM** • **LOG_GROUP**
log_group_id	Yes	String	Log group ID.
log_group_name	No	String	Log group name.
log_stream_id	Yes	String	Log stream ID.
log_stream_name	No	String	Log stream name.
is_global	Yes	Boolean	Whether global favorites are supported. This parameter must be set to **true**. Otherwise, logs cannot be added to favorites.

Response Parameters

Status code: 201

Table 4-149 Response body parameters

Parameter	Type	Description
create_time	Integer	Creation time.
eps_id	String	Enterprise project ID.
favorite_resource_id	String	Favorite resource ID.
favorite_resource_type	String	Favorite resource type.
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
project_id	String	Project ID.
is_global	Boolean	Whether to enable the function of adding logs to favorites.
log_group_name_alias	String	Log group alias, which is the same as the log group name by default.

Parameter	Type	Description
log_stream_name_alias	String	Log stream alias, which is the same as the log stream name by default.

Status code: 400

Table 4-150 Response body parameters

Parameter	Type	Description
message	ErrorMessagebody object	Error message body.

Table 4-151 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-152 Response body parameters

Parameter	Type	Description
message	ErrorMessagebody object	Error message body.

Table 4-153 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Adding a Log to Favorites

```
POST /v1.0/2a473356cca5487f8373be891bffc1cf/lts/favorite

{
```



```
  "log_group_id" : "d91fff37-9d10-47f1-85de-c2840724908f",
  "log_group_name" : "lts-group-sgq1",
  "log_stream_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
  "log_stream_name" : "lts-topic-xxxxtest",
  "eps_id" : "0",
  "favorite_resource_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
  "favorite_resource_type" : "log_stream",
  "is_global" : true
}
```

Example Responses

Status code: 201

A log is added to favorites.

```
{
  "create_time" : 1669018970929,
  "eps_id" : "0",
  "favorite_resource_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
  "is_global" : true,
  "favorite_resource_type" : "LOG_STREAM",
  "log_group_id" : "d91fff37-9d10-47f1-85de-c2840724908f",
  "log_group_name" : "lts-group-sgq1",
  "log_stream_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
  "log_stream_name" : "lts-topic-xxxxtest",
  "project_id" : "2a473356cca5487f8373be891bffc1cf"
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0603",
    "details" : "group or stream not exist"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

Status Codes

Status Code	Description
201	A log is added to favorites.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.4.5 Querying Resources by Time Segment

Function

This API is used to query resources by time segment.

URI

POST /v2/{project_id}/lts/timeline-traffic-statistics

Table 4-154 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-155 Query Parameters

Parameter	Mandatory	Type	Description
timezone	Yes	String	Time zone, for example, **Asia/Shanghai**, **Europe/Paris**, or **Africa/Cairo**.

Request Parameters

Table 4-156 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum: **30** Maximum: **30**

Table 4-157 Request body parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	Start timestamp of the query, in milliseconds. A maximum of 30 days are supported.
end_time	Yes	Long	End timestamp, in milliseconds.
period	Yes	Integer	Query interval, in hours. The value ranges from 1 to 24.
resource_type	Yes	String	Resource type: The value is log_group / log_stream / tenant.
search_type	Yes	String	Type of traffic to be queried: **write**, **index**, or **storage**.
resource_id	No	String	Resource ID. When resource type is set to **log_group**, **resource_id** indicates the log group ID. When resource type is set to **log_stream**, **resource_id** indicates the log stream ID.

Response Parameters

Status code: 200

Table 4-158 Response body parameters

Parameter	Type	Description
results	Array of **Resulits** objects	Response result.

Table 4-159 Resulits

Parameter	Type	Description
timestamp	Long	Timestamp, in milliseconds.
value	Double	Traffic, in bytes.

Status code: 400

Table 4-160 Response body parameters

Parameter	Type	Description
errorCode	String	Error code.
errorMessage	String	Error message.

Status code: 500

Table 4-161 Response body parameters

Parameter	Type	Description
errorCode	String	Error code.
errorMessage	String	Error message.

Example Requests

Querying Resources by Time Segment

```
POST v2/2a473356cca5487f8373be891bffc1cf/lts/timeline-traffic-statistics?timezone=XX/XX

{
  "start_time" : 1668614400000,
  "end_time" : 1668787200000,
  "search_type" : "write",
```



```
  "period" : 1,
  "resource_type" : "tenant"
}
```

Example Responses

Status code: 200

Query succeeded.

```
{
  "results" : [ {
    "timestamp" : 1669046400000,
    "value" : 8.24859442E7
  }, {
    "timestamp" : 1669071600000,
    "value" : 0
  }, {
    "timestamp" : 1669161600000,
    "value" : 9.06895742E7
  }, {
    "timestamp" : 1669215600000,
    "value" : 8.81524816E7
  } ]
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "errorCode" : "LTS.0009",
  "errorMessage" : "resource_id must not be empty"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "errorCode" : "LTS.0203",
  "errorMessage" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	Query succeeded.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.4.6 Querying Logs

Function

This API is used to query logs in a specified log stream.

URI

POST /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

Table 4-162 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
log_stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-163 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-164 Request body parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	UTC start time of the search window (in milliseconds). **NOTE** Maximum query time range: 180 days
end_time	Yes	String	UTC end time of the search window (in milliseconds). **NOTE** Maximum query time range: 180 days
labels	No	Map<String,String>	Filter criteria, which vary between log sources.
keywords	No	String	Keyword used for log search. A keyword is a word between two adjacent delimiters, for example, error.

Parameter	Mandatory	Type	Description
line_num	No	String	Sequence number of a log event. This parameter is not required for the first query, but is required for subsequent pagination queries. The value can be obtained from the response of the last query. The value of **line_num** should be between the values of **start_time** and **end_time**. If the custom time function is enabled, you need to use both this field and the **time** field to perform pagination query. Minimum: **19** Maximum: **19**
__time__	No	String	If the custom time function is enabled, use both this field and the **line_num** field for pagination queries. The parameter values can be obtained from the returned information of the last query.
is_desc	No	Boolean	Whether the search order is descending. The default value is **false** (ascending). You can also set the value to **true** (descending).
search_type	No	String	The value is **init** (default value) for the first query, or **forwards** or **backwards** for a pagination query. This parameter is used together with **is_desc** for pagination queries.The value can be **forwards** or **backwards**.
limit	No	Integer	Number of logs to be queried each time. The value is **50** when this parameter is not set. You are advised to set this parameter to **100**. Minimum: **1** Maximum: **5000**

Parameter	Mandatory	Type	Description
highlight	No	Boolean	Whether the keyword is highlighted. The default value is **true** (highlighted). You can also set the value to **false** (not highlighted).
is_count	No	Boolean	Whether the number of log events is counted. The default value is **false** (not counted). You can also set the value to **true** (counted).
is_iterative	No	Boolean	Whether the log query is iterative. The default value is **false** (not iterative). You can also set the value to **true** (iterative).

Response Parameters

Status code: 200

Table 4-165 Response body parameters

Parameter	Type	Description
logs	Array of **LogContents** objects	Log information.
count	Integer	Number of logs.
isQueryComplete	Boolean	Indicates whether the query is complete.

Table 4-166 LogContents

Parameter	Type	Description
content	String	Raw log data.
line_num	String	Sequence number of a log line.
labels	Map<String,String>	Labels contained in a log event. The labels vary depending on log events.

Status code: 400

Table 4-167 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-168 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-169 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-170 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Querying logs

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
```



```
 "limit" : 10,
 "is_count" : true
}
```

- Querying logs for the first time

```
POST v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
 "start_time" : 1595659200000,
 "end_time" : 1595659500000,
 "labels" : {
  "hostName" : "ecs-kwxtest"
 },
 "keywords" : "log",
 "line_num" : "1595659490239433658",
 "is_desc" : "false",
 "search_type" : "forwards",
 "limit" : "3",
 "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 6**, **NO 7**, and **NO 8** are the target log events):

```
POST v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query '

{
 "start_time" : 1595659200000,
 "end_time" : 1595659500000,
 "labels" : {
  "hostName" : "ecs-kwxtest"
 },
 "keywords" : "log",
 "line_num" : "1595659490239433658",
 "is_desc" : "true",
 "search_type" : "backwards",
 "limit" : "3",
 "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 8**, **NO 7**, and **NO 6** are the target log events):

```
POST v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
 "start_time" : 1595659200000,
 "end_time" : 1595659500000,
 "labels" : {
  "hostName" : "ecs-kwxtest"
 },
 "keywords" : "log",
 "line_num" : "1595659490239433658",
 "is_desc" : "false",
 "search_type" : "backwards",
 "limit" : "3",
 "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 2**, **NO 3**, and **NO 4** are the target log events):

```
POST v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query '

{
 "start_time" : 1595659200000,
 "end_time" : 1595659500000,
 "labels" : {
```



```
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
  "line_num" : "1595659490239433658",
  "is_desc" : "true",
  "search_type" : "forwards",
  "limit" : "3",
  "is_count" : true
}
```

Example Responses

Status code: 200

The request is successful.

- Querying logs for the first time

```
{
  "count" : 32,
  "logs" : [ {
    "content" : "2020-07-25/14:44:42 this <HighLightTag>log</HighLightTag> is Error NO 1",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433654"
  }, {
    "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433655"
  }, {
    "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433656"
  }, {
    "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
    "labels" : {
      "hostName" : "ecs-kwxtest",
```



```
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433657"
}, {
  "content" : "2020-07-25/14:44:46 this <HighLightTag>log</HighLightTag> is Error NO 5",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433658"
}, {
  "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433659"
}, {
  "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433660"
}, {
  "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
```



```
  },
  "line_num" : "1595659490239433661"
 }, {
  "content" : "2020-07-25/14:44:50 this <HighLightTag>log</HighLightTag> is Error NO 9",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490839420574"
 }, {
  "content" : "2020-07-25/14:44:51 this <HighLightTag>log</HighLightTag> is Error NO 10",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659491839412667"
 } ]
}
```


- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 6**, **NO 7**, and **NO 8** are the target log events):


```
{
 "count" : 32,
 "logs" : [ {
  "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433659"
 }, {
  "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
```



```
    "line_num" : "1595659490239433660"
  }, {
    "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433661"
  } ]
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 8**, **NO 7**, and **NO 6** are the target log events):

```
{
  "count" : 32,
  "logs" : [ {
    "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433661"
  }, {
    "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433660"
  }, {
    "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433659"
```



```
 } ]
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 2**, **NO 3**, and **NO 4** are the target log events):

```
{
 "count" : 32,
 "logs" : [ {
  "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
   "podName" : "default_procname",
   "clusterId" : "CONFIG_FILE",
   "nameSpace" : "CONFIG_FILE",
   "category" : "LTS"
  },
  "line_num" : "1595659490239433655"
 }, {
  "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
   "podName" : "default_procname",
   "clusterId" : "CONFIG_FILE",
   "nameSpace" : "CONFIG_FILE",
   "category" : "LTS"
  },
  "line_num" : "1595659490239433656"
 }, {
  "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
   "podName" : "default_procname",
   "clusterId" : "CONFIG_FILE",
   "nameSpace" : "CONFIG_FILE",
   "category" : "LTS"
  },
  "line_num" : "1595659490239433657"
 } ]
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 4**, **NO 3**, and **NO 2** are the target log events):

```
{
 "count" : 32,
 "logs" : [ {
  "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
```



```
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433657"
  }, {
   "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433656"
  }, {
   "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433655"
  } ]
}
```


Status code: 400

Bad request. The request is invalid or the query statement is incorrect. Modify the request based on the description in **error_msg** before a retry.


```
{
 "error_code" : "LTS.0009",
 "error_msg" : "Failed to validate the request body"
}
```


Status code: 401

AuthFailed. Authentication failed. Check the token and try again.


```
{
 "error_code" : "LTS.0003",
 "error_msg" : "Invalid token"
}
```


Status code: 403

Forbidden.The request has been 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.


```
{
 "error_code" : "LTS.0001",
```



```
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Failed to query lts log"
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	Bad request. The request is invalid or the query statement is incorrect. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.5 Log Ingestion

4.5.1 Creating a Cross-Account Log Ingestion Configuration

Function

This API is used to create a cross-account log ingestion configuration.

URI

POST /v2.0/{project_id}/lts/createAgencyAccess

Table 4-171 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-172 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=utf8**. Minimum: **30** Maximum: **30**

Table 4-173 Request body parameters

Parameter	Mandatory	Type	Description
preview_agency_list	Yes	Array of **PreviewAgencyLogAccessReqBody** objects	Preview of the proxy list.

Table 4-174 PreviewAgencyLogAccessReqBody

Parameter	Mandatory	Type	Description
agency_access_type	Yes	String	Log ingestion type.
agency_log_access	Yes	String	Cross-account log ingestion configuration name.
log_agencyStream_name	Yes	String	Delegator log stream name.
log_agencyStream_id	Yes	String	Delegator log stream ID.
log_agencyGroup_name	Yes	String	Delegator log group name.
log_agencyGroup_id	Yes	String	Delegator log group ID.
log_beAgencystream_name	Yes	String	Delegatee log stream name.
log_beAgencystream_id	Yes	String	Delegatee log stream ID.
log_beAgencygroup_name	Yes	String	Delegatee log group name.
log_beAgencygroup_id	Yes	String	Delegatee log group ID.
be_agency_project_id	Yes	String	Delegatee project ID.
agency_project_id	Yes	String	Delegator project ID.
agency_domain_name	Yes	String	Delegator account name.
agency_name	Yes	String	Agency name.

Response Parameters

Status code: 201

Table 4-175 Response body parameters

Parameter	Type	Description
LTSAgencyAccess-ConfigInfoList	Array of **LTSAccessConfigInfoRespon200** objects	Response list for creating a log ingestion configuration across accounts.

Table 4-176 LTSAccessConfigInfoRespon200

Parameter	Type	Description
access_config_id	String	Cross-account log ingestion ID.
project_id	String	Project ID.
access_config_name	String	Cross-account log ingestion name.
access_config_type	Object	Cross-account log ingestion type.
group_id	String	Log group ID.
log_group_name	String	Log group name.
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
create_time	Long	Creation time.
agency_log_access	**PreviewAgencyLogAccessReqBody** object	Information of the delegated ingestion.

Table 4-177 PreviewAgencyLogAccessReqBody

Parameter	Type	Description
agency_access_type	String	Log ingestion type.
agency_log_access	String	Cross-account log ingestion configuration name.
log_agencyStream_name	String	Delegator log stream name.
log_agencyStream_id	String	Delegator log stream ID.

Parameter	Type	Description
log_agencyGroup_name	String	Delegator log group name.
log_agencyGroup_id	String	Delegator log group ID.
log_beAgencystream_name	String	Delegatee log stream name.
log_beAgencystream_id	String	Delegatee log stream ID.
log_beAgencygroup_name	String	Delegatee log group name.
log_beAgencygroup_id	String	Delegatee log group ID.
be_agency_project_id	String	Delegatee project ID.
agency_project_id	String	Delegator project ID.
agency_domain_name	String	Delegator account name.
agency_name	String	Agency name.

Status code: 400

Table 4-178 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-179 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-180 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-181 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Creating a cross-account log ingestion configuration

```
POST https://{endpoint}/v2.0/{project_id}/lts/createAgencyAccess

{
  "preview_agency_list" : [ {
    "agency_log_access" : "rule_lb30",
    "agency_access_type" : "AGENCYACCESS",
    "agency_name" : "wenshufeng",
    "agency_domain_name" : "paas_aom_z00418070_01",
    "agency_project_id" : "a0a12b069ab4491185d7cf26c3e86ada",
    "be_agency_project_id" : "2a473356cca5487f8373be891bffc1cf",
    "log_agencyStream_name" : "lts-topic-bug",
    "log_agencyStream_id" : "beb169ff-e6e9-4bea-8e77-50afdec74071",
    "log_agencyGroup_name" : "lts-group-sgq",
    "log_agencyGroup_id" : "f06cbfa0-7243-4031-9380-ae0465bd3997",
    "log_beAgencystream_name" : "lts-topic-ECS",
    "log_beAgencystream_id" : "36ce06b0-c6bf-436d-9abe-39de86da28bb",
    "log_beAgencygroup_name" : "lts-group-sgqECS",
    "log_beAgencygroup_id" : "1e749063-d9f5-474f-a537-00cad4e9a108"
  } ]
}
```

Example Responses

Status code: 201

The cross-account log ingestion configuration is created.

```
[ {
  "access_config_id" : "e929f40e-d1cf-4d59-b656-a2995cbd3229",
  "access_config_name" : "rule_lb30",
  "access_config_type" : "AGENCYACCESS",
  "agency_log_access" : {
    "agency_accessConfig_id" : "e929f40e-d1cf-4d59-b656-a2995cbd3229",
    "agency_access_type" : "AGENCYACCESS",
    "agency_domain_name" : "paas_aom_z00418070_01",
    "agency_log_access" : "rule_lb30",
    "agency_name" : "wenshufeng",
    "agency_project_id" : "a0a12b069ab4491185d7cf26c3e86ada",
    "be_agency_project_id" : "2a473356cca5487f8373be891bffc1cf",
    "log_agencyGroup_id" : "f06cbfa0-7243-4031-9380-ae0465bd3997",
    "log_agencyGroup_name" : "lts-group-sgq",
```



```
    "log_agencyStream_id" : "beb169ff-e6e9-4bea-8e77-50afdec74071",
    "log_agencyStream_name" : "lts-topic-bug",
    "log_beAgencygroup_id" : "1e749063-d9f5-474f-a537-00cad4e9a108",
    "log_beAgencygroup_name" : "lts-group-sgqECS",
    "log_beAgencystream_id" : "36ce06b0-c6bf-436d-9abe-39de86da28bb",
    "log_beAgencystream_name" : "lts-topic-ECS"
  },
  "binary_collect" : false,
  "create_time" : 1694400753168,
  "group_id" : "1e749063-d9f5-474f-a537-00cad4e9a108",
  "hostGroupNum" : 0,
  "hostNum" : 0,
  "host_group_info_list" : [ ],
  "host_rule_info" : {
    "black_paths" : [ ],
    "pathType" : "host_file",
    "paths" : [ ],
    "stderr" : false,
    "stdout" : false
  },
  "id" : "",
  "indexId" : "",
  "key" : "",
  "log_group_name" : "lts-group-sgqECS",
  "log_split" : false,
  "log_stream_id" : "36ce06b0-c6bf-436d-9abe-39de86da28bb",
  "log_stream_name" : "lts-topic-ECS",
  "pathNum" : 0,
  "project_id" : "2a473356cca5487f8373be891bffc1cf",
  "tag_list" : [ ]
} ]
```


Status code: 400

Failed to create cross-account log ingestion configuration.


```
{
  "message" : {
    "code" : "LTS.0420",
    "details" : "Agency not existed, check domain name and agency name"
  }
}
```


Status code: 500

Internal service error


```
{
  "message" : {
    "code" : "LTS.0010",
    "details" : "The system encountered an internal error"
  }
}
```


Status Codes

Status Code	Description
201	The cross-account log ingestion configuration is created.
400	Failed to create cross-account log ingestion configuration.
500	Internal service error

Error Codes

See **Error Codes**.

4.5.2 Querying Log Ingestion Configurations

Function

This API is used to query log ingestion configurations in LTS.

URI

POST /v3/{project_id}/lts/access-config-list

Table 4-182 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Account ID, Project Resource Set ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-183 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum: **30** Maximum: **30**

Table 4-184 Request body parameters

Parameter	Mandatory	Type	Description
access_config_name_list	Yes	Array of strings	List of ingestion configuration names. Minimum: **1** Maximum: **64**
host_group_name_list	Yes	Array of strings	List of host group names. Minimum: **1** Maximum: **64**
log_group_name_list	Yes	Array of strings	List of log group names. Minimum: **1** Maximum: **64**
log_stream_name_list	Yes	Array of strings	List of log stream names. Minimum: **1** Maximum: **64**
access_config_tag_list	No	Array of **accessConfigTag** objects	Ingestion configuration tags. A tag key must be unique. Up to 20 tags are allowed.

Table 4-185 accessConfigTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore (_)*. Max 128 characters are allowed.
value	No	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-186 Response body parameters

Parameter	Type	Description
result	Array of **AccessConfigInfo** objects	Ingestion configuration list.
total	Long	Total number of ingestion configurations.

Table 4-187 AccessConfigInfo

Parameter	Type	Description
access_config_id	String	Ingestion configuration ID.
access_config_name	String	Ingestion configuration name.
access_config_type	String	Ingestion configuration type. The value **AGENT** indicates host log ingestion.
create_time	Long	Creation time.
access_config_detail	**AccessConfigDeatilResponse** object	Ingestion configuration details.
log_info	**AccessConfigQueryLogInfo** object	Log details.
host_group_info	**AccessConfigHostGroupIdList** object	Host group ID list.
access_config_tag	Array of **accessConfigTagResponse** objects	Tag information.
log_split	Boolean	Log splitting.
binary_collect	Boolean	Binary collection.
cluster_id	String	CCE cluster ID

Table 4-188 AccessConfigDeatilResponse

Parameter	Type	Description
paths	Array of strings	Collection paths.
black_paths	Array of strings	Collection path blacklist.

Parameter	Type	Description
format	**AccessConfigFormatCreate** object	Log format.
windows_log_info	**AccessConfigWindowsLogInfoCreate** object	Windows event logs.
stdout	Boolean	Standard output switch. This parameter is used only for CCE log ingestion.
stderr	Boolean	Standard error switch. This parameter is used only for CCE log ingestion.
pathType	String	CCE log ingestion type. This parameter is used only for CCE log ingestion.
namespaceRegex	String	Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.
podNameRegex	String	Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.
containerNameRegex	String	Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.
includeLabels	Map<String,String>	Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeLabels	Map<String,String>	Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
includeEnvs	Map<String,String>	Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeEnvs	Map<String,String>	Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.

Parameter	Type	Description
logLabels	Map<String,String>	Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
logEnvs	Map<String,String>	Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
includeK8sLabels	Map<String,String>	Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeK8sLabels	Map<String,String>	Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logK8s	Map<String,String>	Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.

Table 4-189 AccessConfigFormatCreate

Parameter	Type	Description
single	**AccessConfigFormatSingleCreate** object	Single-line logs.
multi	**AccessConfigFormatMutilCreate** object	Multi-line logs.

Table 4-190 AccessConfigFormatSingleCreate

Parameter	Type	Description
mode	String	Single-line logs. **system** indicates the system time, whereas **wildcard** indicates the time wildcard.

Parameter	Type	Description
value	String	Log time.If **mode** is **system**, the value is the current timestamp.If **mode** is **wildcard**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-191 AccessConfigFormatMutilCreate

Parameter	Type	Description
mode	String	Single-line logs. **time** indicates a time wildcard is used to detect log boundaries, whereas **regular** indicates that a regular expression is used.
value	String	Log time.If **mode** is **regular**, the value is a regular expression.If **mode** is **time**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-192 AccessConfigWindowsLogInfoCreate

Parameter	Type	Description
categorys	Array of strings	Type of Windows event logs to be collected. • **Application**: application event logs. • **System**: system event logs. • **Security**: security event logs. • **Setup**: startup event logs.
time_offset	**AccessConfigTimeOffset** object	Offset from first collection time.

Parameter	Type	Description
event_level	Array of strings	Event level. • **information**: common information events, which do not affect system running. • **warning**: warning events, which may affect system running but do not cause system breakdown. • **error**: error events, which cause system breakdown or prevent the service from running properly. • **critical**: critical events, which may cause system or application failures. • **verbose**: detailed event information, which does not affect the system running.

Table 4-193 AccessConfigTimeOffset

Parameter	Type	Description
offset	Long	Time offset. When **unit** is **day**, the value ranges from **1** to **7**. When **unit** is **hour**, the value ranges from **1** to **168**. When **unit** is **sec**, the value ranges from **1** to **604800**.
unit	String	Unit of the time offset. • **day** • **hour** • **sec**

Table 4-194 AccessConfigQueryLogInfo

Parameter	Type	Description
log_group_id	String	Log group ID.
log_stream_id	String	Log stream ID.
log_group_name	String	Log group name.
log_stream_name	String	Log stream name.

Parameter	Type	Description
log_group_name_alias	String	Log group alias.
log_stream_name_alias	String	Log stream alias.

Table 4-195 AccessConfigHostGroupIdList

Parameter	Type	Description
host_group_id_list	Array of strings	List of host group IDs.

Table 4-196 accessConfigTagResponse

Parameter	Type	Description
key	String	Tag key.
value	String	Tag value.

Status code: 400

Table 4-197 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-198 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Log ingestion configurations are filtered by the request body.


```
POST https://{endpoint}/v3/{project_id}/lts/access-config-list

{
  "access_config_name_list" : [ "Collectionxx2", "22x", "2x", "CollectionWjxxxx" ],
  "host_group_name_list" : [ "wwxx" ],
  "log_group_name_list" : [ "lts-grxx", "lts-xx", "lts-gxx" ],
  "log_stream_name_list" : [ "lts-topixx", "lts-txx" ],
  "access_config_tag_list" : [ {
    "key" : "xxx",
    "value" : "xxx"
  }, {
    "key" : "xxx1",
    "value" : "xxx1"
  } ]
}
```

Example Responses

Status code: 200

The query is successful.

```
{
  "result" : [ {
    "access_config_detail" : {
      "containerNameRegex" : "my",
      "excludeEnvs" : {
        "h" : "8"
      },
      "excludeK8sLabels" : {
        "e" : "5"
      },
      "excludeLabels" : {
        "b" : "2"
      },
      "format" : {
        "single" : {
          "mode" : "system",
          "value" : "1678969382000"
        }
      },
      "includeEnvs" : {
        "g" : "7"
      },
      "includeK8sLabels" : {
        "d30" : "4"
      },
      "includeLabels" : {
        "a" : "1"
      },
      "logEnvs" : {
        "i" : "9"
      },
      "logK8s" : {
        "f" : "6"
      },
      "logLabels" : {
        "c" : "3"
      },
      "namespaceRegex" : "default",
      "pathType" : "container_stdout",
      "paths" : [ ],
      "podNameRegex" : "abc",
      "stderr" : false,
      "stdout" : true
    },
    "access_config_id" : "c3152f88-8b06-4f7f-bbbe-129512f49f87",
    "access_config_name" : "myapinew322",
    "access_config_tag" : [ {
```



```
    "key" : "my01",
    "value" : "001"
  }, {
    "key" : "my02",
    "value" : "002"
  } ],
  "access_config_type" : "K8S_CCE",
  "binary_collect" : false,
  "create_time" : 1684467787996,
  "host_group_info" : {
    "host_group_id_list" : [ "12b0bbd1-4eda-456b-a641-647aa66bdeab" ]
  },
  "log_info" : {
    "log_group_id" : "9575cb24-290c-478e-a5db-88d6d1dc513b",
    "log_group_name" : "my-group",
    "log_stream_id" : "3581bee9-8698-476e-a0ba-b0f310ed99cf",
    "log_stream_name" : "lts-topic-api"
  },
  "log_split" : false
}, {
  "access_config_detail" : {
    "containerNameRegex" : "my",
    "excludeEnvs" : {
      "h" : "8"
    },
    "excludeK8sLabels" : {
      "e" : "5"
    },
    "excludeLabels" : {
      "b" : "2"
    },
    "format" : {
      "single" : {
        "mode" : "system",
        "value" : "1678969382000"
      }
    },
    "includeEnvs" : {
      "g" : "7"
    },
    "includeK8sLabels" : {
      "d10" : "4",
      "d" : "4",
      "d12" : "4",
      "d11" : "4",
      "d14" : "4",
      "d13" : "4",
      "d16" : "4",
      "d15" : "4",
      "d18" : "4",
      "d17" : "4",
      "d1" : "4",
      "d2" : "4",
      "d3" : "4",
      "d4" : "4",
      "d5" : "4",
      "d6" : "4",
      "d7" : "4",
      "d8" : "4",
      "d9" : "4"
    },
    "includeLabels" : {
      "a" : "1"
    },
    "logEnvs" : {
      "i" : "9"
    },
    "logK8s" : {
      "f" : "6"
```



```
    },
    "logLabels" : {
      "c" : "3"
    },
    "namespaceRegex" : "default",
    "pathType" : "container_stdout",
    "paths" : [ ],
    "podNameRegex" : "abc",
    "stderr" : false,
    "stdout" : true
  },
  "access_config_id" : "550cd738-7b16-4724-9c59-aba61bf16528",
  "access_config_name" : "myapinew32",
  "access_config_tag" : [ {
    "key" : "my01",
    "value" : "001"
  }, {
    "key" : "my02",
    "value" : "002"
  } ],
  "access_config_type" : "K8S_CCE",
  "binary_collect" : false,
  "create_time" : 1684463134956,
  "host_group_info" : {
    "host_group_id_list" : [ "12b0bbd1-4eda-456b-a641-647aa66bdeab" ]
  },
  "log_info" : {
    "log_group_id" : "9575cb24-290c-478e-a5db-88d6d1dc513b",
    "log_group_name" : "my-group",
    "log_group_name_alias" : "my-group",
    "log_stream_id" : "3581bee9-8698-476e-a0ba-b0f310ed99cf",
    "log_stream_name" : "lts-topic-api",
    "log_stream_name_alias" : "lts-topic-api"
  },
  "log_split" : false
 } ],
 "total" : 2
}
```


Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
 "error_code" : "LTS.1807",
 "error_msg" : "Invalid access config name"
}
```


Status code: 500

The server has received the request but encountered an internal error.


```
{
 "error_code" : "LTS.0010",
 "error_msg" : "The system encountered an internal error"
}
```


Status Codes

Status Code	Description
200	The query is successful.

Status Code	Description
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.5.3 Creating a Log Ingestion Configuration

Function

This API is used to create a log ingestion configuration.

URI

POST /v3/{project_id}/lts/access-config

Table 4-199 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Account Tenant ID, Project Resource Set ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-200 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-201 Request body parameters

Parameter	Mandatory	Type	Description
access_config_name	Yes	String	Ingestion configuration name. It should match the regular expression: ^(?!.)(?!_)(?!.*?.$)[\u4e00-\u9fa5a-zA-Z0-9-_.]{1,64}$. Minimum: **1** Maximum: **64**
access_config_type	Yes	String	Ingestion configuration type. **AGENT**: ECS access; **K8S_CCE**: CCE access
access_config_detail	Yes	**AccessConfigDeatilCreate** object	Access configuration details.
log_info	Yes	**AccessConfigBaseLogInfoCreate** object	Log information
host_group_info	No	**AccessConfigHostGroupIdListCreate** object	Host group information
access_config_tag	No	Array of **accessConfigTag** objects	Tag information. A tag key must be unique. Up to 20 tags are allowed.

Parameter	Mandatory	Type	Description
binary_collect	No	Boolean	Binary collection.
log_split	No	Boolean	Log splitting.
cluster_id	No	String	Cluster ID

Table 4-202 AccessConfigDeatilCreate

Parameter	Mandatory	Type	Description
paths	No	Array of strings	Collection paths. 1. A path must start with a slash (/), backslash (\), colon (:), or letter. 2. A path cannot contain special characters (<>'| ") and cannot contain only slashes (/). 3. A path cannot start with "/**" or "/*". 4. Only one double asterisk (**) can be contained in a path. The container path and host path are mandatory for the CCE type and are not mandatory for the standard output.
black_paths	No	Array of strings	Collection path blacklist. 1. A path must start with a slash (/), backslash (\), colon (:), or letter. 2. A path cannot contain special characters (<>'| ") and cannot contain only slashes (/). 3. A path cannot start with "/**" or "/*". 4. Only one double asterisk (**) can be contained in a path.
format	Yes	**AccessConfigFormatCreate** object	Log format.

Parameter	Mandatory	Type	Description
windows_log_info	No	AccessConfigWindowsLogInfoCreate object	Windows event logs.
stdout	No	Boolean	Standard output switch. This parameter is used only when logs are collected from CCE.
stderr	No	Boolean	Standard error switch. This parameter is used only when logs are collected from CCE.
pathType	No	String	Log collection from CCE. This parameter is used only when logs are collected from CCE.
namespaceRegex	No	String	Regular expression matching of Kubernetes namespaces. This parameter is used only when logs are collected from CCE.
podNameRegex	No	String	Regular expression matching of Kubernetes pods. This parameter is used only when logs are collected from CCE.
containerNameRegex	No	String	Regular expression matching of Kubernetes container names. This parameter is used only when logs are collected from CCE.
includeLabels	No	Map<String,String>	Container label trustlist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.
excludeLabels	No	Map<String,String>	Container label blocklist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.

Parameter	Mandatory	Type	Description
includeEnvs	No	Map<String,String>	Environment variable trustlist. A maximum of 30 environment variable whitelists can be created. Key names must be unique. This parameter is used only when logs are collected from CCE.
excludeEnvs	No	Map<String,String>	Environment variable blocklist. A maximum of 30 environment variables can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.
logLabels	No	Map<String,String>	Container label log tag. A maximum of 30 tags can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.
logEnvs	No	Map<String,String>	Environment variable log tag. A maximum of 30 tags can be created. The key name must be unique. This parameter is used only when logs are collected from CCE.
includeK8sLabels	No	Map<String,String>	Kubernetes label trustlist. A maximum of 30 whitelists can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.
excludeK8sLabels	No	Map<String,String>	Kubernetes label blocklist. A maximum of 30 blocklists can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.
logK8s	No	Map<String,String>	Kubernetes label log tag. A maximum of 30 tags can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.

Table 4-203 AccessConfigFormatCreate

Parameter	Mandatory	Type	Description
single	No	**AccessConfigFormatSingleCreate** object	Single-line logs.
multi	No	**AccessConfigFormatMutilCreate** object	Multi-line logs.

Table 4-204 AccessConfigFormatSingleCreate

Parameter	Mandatory	Type	Description
mode	No	String	Single-line logs. **system** indicates the system time, whereas **wildcard** indicates the time wildcard.
value	No	String	Log time.If **mode** is **system**, the value is the current timestamp.If **mode** is **wildcard**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-205 AccessConfigFormatMutilCreate

Parameter	Mandatory	Type	Description
mode	No	String	Single-line logs. **time** indicates a time wildcard is used to detect log boundaries, whereas **regular** indicates that a regular expression is used.

Parameter	Mandatory	Type	Description
value	No	String	Log time.If **mode** is **regular**, the value is a regular expression.If **mode** is **time**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-206 AccessConfigWindowsLogInfoCreate

Parameter	Mandatory	Type	Description
categorys	Yes	Array of strings	Type of Windows event logs to be collected. • **Application**: application event logs. • **System**: system event logs. • **Security**: security event logs. • **Setup**: startup event logs.
time_offset	Yes	**AccessConfigTimeOffset** object	Offset from first collection time.

Parameter	Mandatory	Type	Description
event_level	Yes	Array of strings	Event level. • **information**: common information events, which do not affect system running. • **warning**: warning events, which may affect system running but do not cause system breakdown. • **error**: error events, which cause system breakdown or prevent the service from running properly. • **critical**: critical events, which may cause system or application failures. • **verbose**: detailed event information, which does not affect the system running.

Table 4-207 AccessConfigTimeOffset

Parameter	Mandatory	Type	Description
offset	Yes	Long	Time offset. When **unit** is **day**, the value ranges from **1** to **7**. When **unit** is **hour**, the value ranges from **1** to **168**. When **unit** is **sec**, the value ranges from **1** to **604800**.
unit	Yes	String	Unit of the time offset. • **day** • **hour** • **sec**

Table 4-208 AccessConfigBaseLogInfoCreate

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. Project ID. For details about how to obtain a project ID, see **Obtaining the Account ID, Project Resource Set ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
log_stream_id	Yes	String	Log stream ID. Project ID. For details about how to obtain a project ID, see **Obtaining the Account ID, Project Resource Set ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Table 4-209 AccessConfigHostGroupIdListCreate

Parameter	Mandatory	Type	Description
host_group_id_list	Yes	Array of strings	List of host group IDs. Minimum: **36** Maximum: **36**

Table 4-210 accessConfigTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore ()*. Max 128 characters are allowed.
value	No	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-211 Response body parameters

Parameter	Type	Description
access_config_id	String	Ingestion configuration ID.
access_config_name	String	Ingestion configuration name.
access_config_type	String	Ingestion configuration type. The value **AGENT** indicates host log ingestion.
create_time	Long	Creation time.
access_config_detail	**AccessConfigDeatilResponse** object	Ingestion configuration details.
log_info	**AccessConfigQueryLogInfo** object	Log details.
host_group_info	**AccessConfigHostGroupIdList** object	Host group ID list.
access_config_tag	Array of **accessConfigTagResponse** objects	Tag information.
log_split	Boolean	Log splitting.
binary_collect	Boolean	Binary collection.
cluster_id	String	CCE cluster ID

Table 4-212 AccessConfigDeatilResponse

Parameter	Type	Description
paths	Array of strings	Collection paths.
black_paths	Array of strings	Collection path blacklist.
format	**AccessConfigFormatCreate** object	Log format.
windows_log_info	**AccessConfigWindowsLogInfoCreate** object	Windows event logs.

Parameter	Type	Description
stdout	Boolean	Standard output switch. This parameter is used only for CCE log ingestion.
stderr	Boolean	Standard error switch. This parameter is used only for CCE log ingestion.
pathType	String	CCE log ingestion type. This parameter is used only for CCE log ingestion.
namespaceRegex	String	Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.
podNameRegex	String	Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.
containerNameRegex	String	Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.
includeLabels	Map<String,String>	Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeLabels	Map<String,String>	Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
includeEnvs	Map<String,String>	Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeEnvs	Map<String,String>	Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logLabels	Map<String,String>	Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
logEnvs	Map<String,String>	Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.

Parameter	Type	Description
includeK8sLabels	Map<String,String>	Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeK8sLabels	Map<String,String>	Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logK8s	Map<String,String>	Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.

Table 4-213 AccessConfigFormatCreate

Parameter	Type	Description
single	**AccessConfigFormatSingleCreate** object	Single-line logs.
multi	**AccessConfigFormatMutilCreate** object	Multi-line logs.

Table 4-214 AccessConfigFormatSingleCreate

Parameter	Type	Description
mode	String	Single-line logs. **system** indicates the system time, whereas **wildcard** indicates the time wildcard.
value	String	Log time.If **mode** is **system**, the value is the current timestamp.If **mode** is **wildcard**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-215 AccessConfigFormatMutilCreate

Parameter	Type	Description
mode	String	Single-line logs. **time** indicates a time wildcard is used to detect log boundaries, whereas **regular** indicates that a regular expression is used.
value	String	Log time.If **mode** is **regular**, the value is a regular expression.If **mode** is **time**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-216 AccessConfigWindowsLogInfoCreate

Parameter	Type	Description
categorys	Array of strings	Type of Windows event logs to be collected. • **Application**: application event logs. • **System**: system event logs. • **Security**: security event logs. • **Setup**: startup event logs.
time_offset	**AccessConfigTimeOffset** object	Offset from first collection time.
event_level	Array of strings	Event level. • **information**: common information events, which do not affect system running. • **warning**: warning events, which may affect system running but do not cause system breakdown. • **error**: error events, which cause system breakdown or prevent the service from running properly. • **critical**: critical events, which may cause system or application failures. • **verbose**: detailed event information, which does not affect the system running.

Table 4-217 AccessConfigTimeOffset

Parameter	Type	Description
offset	Long	Time offset. When **unit** is **day**, the value ranges from **1** to **7**. When **unit** is **hour**, the value ranges from **1** to **168**. When **unit** is **sec**, the value ranges from **1** to **604800**.
unit	String	Unit of the time offset. • **day** • **hour** • **sec**

Table 4-218 AccessConfigQueryLogInfo

Parameter	Type	Description
log_group_id	String	Log group ID.
log_stream_id	String	Log stream ID.
log_group_name	String	Log group name.
log_stream_name	String	Log stream name.
log_group_name_alias	String	Log group alias.
log_stream_name_alias	String	Log stream alias.

Table 4-219 AccessConfigHostGroupIdList

Parameter	Type	Description
host_group_id_list	Array of strings	List of host group IDs.

Table 4-220 accessConfigTagResponse

Parameter	Type	Description
key	String	Tag key.

Parameter	Type	Description
value	String	Tag value.

Status code: 400

Table 4-221 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-222 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

- Creating a log ingestion configuration (for CCE)

```
POST https://{endpoint}/v3/{project_id}/lts/access-config

{
  "access_config_name" : "myapinew322",
  "access_config_type" : "K8S_CCE",
  "access_config_detail" : {
    "pathType" : "CONTAINER_STDOUT",
    "stdout" : "true",
    "stderr" : "false",
    "format" : {
      "single" : {
        "mode" : "system",
        "value" : "1678969382000"
      }
    },
    "namespaceRegex" : "default",
    "podNameRegex" : "abc",
    "containerNameRegex" : "my",
    "includeLabels" : {
      "a" : "1"
    },
    "excludeLabels" : {
      "b" : "2"
    },
    "logLabels" : {
      "c" : "3"
    },
    "includeK8sLabels" : {
```



```
    "d" : "4"
  },
  "excludeK8sLabels" : {
    "e" : "5"
  },
  "logK8s" : {
    "f" : "6"
  },
  "includeEnvs" : {
    "g" : "7"
  },
  "excludeEnvs" : {
    "h" : "8"
  },
  "logEnvs" : {
    "i" : "9"
  }
 },
 "log_info" : {
  "log_group_id" : "9575cb24-290c-478e-a5db-88d6d1dc513b",
  "log_stream_id" : "3581bee9-8698-476e-a0ba-b0f310ed99cf"
 },
 "host_group_info" : {
  "host_group_id_list" : [ "12b0bbd1-4eda-456b-a641-647aa66bdeab" ]
 },
 "access_config_tag" : [ {
  "key" : "my01",
  "value" : "001"
 }, {
  "key" : "my02",
  "value" : "002"
 } ],
 "binary_collect" : "false",
 "log_split" : "false"
}
```

- Creating a log ingestion configuration (for ECS)

```
POST https://{endpoint}/v3/{project_id}/lts/access-config

{
 "access_config_name" : "Tesxxx",
 "access_config_type" : "AGENT",
 "access_config_detail" : {
  "paths" : [ "/test/xxx", "/texxx" ],
  "black_paths" : [ "/testxxx", "/tesxxx" ],
  "format" : {
   "multi" : {
    "mode" : "time",
    "value" : "YYYY-MM-DD hh:mm:ss"
   }
  },
  "windows_log_info" : {
   "categorys" : [ "System", "Security", "Setup" ],
   "event_level" : [ "warning", "error", "critical", "verbose" ],
   "time_offset" : {
    "offset" : 111,
    "unit" : "hour"
   }
  }
 },
 "log_info" : {
  "log_group_id" : "b179326d-c3be-4217-a3d9-xxxx",
  "log_stream_id" : "020a6fa0-4740-4888-af06-98xxxxxx"
 },
 "host_group_info" : {
  "host_group_id_list" : [ "4ee44d4f-a72b-40cf-a3c7-1xxxxx" ]
 },
 "access_config_tag" : [ {
  "key" : "xxx",
  "value" : "xxx"
```



```
  }, {
    "key" : "xxx1",
    "value" : "xxx1"
  } ]
}
```

Example Responses

Status code: 200

The ingestion configuration is created.

```
{
  "access_config_detail" : {
    "containerNameRegex" : "container-1",
    "format" : {
      "single" : {
        "mode" : "system",
        "value" : "1678969382000"
      }
    },
    "namespaceRegex" : "default",
    "pathType" : "container_stdout",
    "paths" : [ ],
    "podNameRegex" : "mystdout-6d7458d77c-rhjcc",
    "stderr" : true,
    "stdout" : true
  },
  "access_config_id" : "03b16999-95cf-453b-9668-7aa1fafa564e",
  "access_config_name" : "myapinew32Y",
  "access_config_tag" : [ {
    "key" : "my01",
    "value" : "001"
  }, {
    "key" : "my02",
    "value" : "002"
  } ],
  "access_config_type" : "K8S_CCE",
  "binary_collect" : true,
  "create_time" : 1685626665176,
  "log_info" : {
    "log_group_id" : "9575cb24-290c-478e-a5db-88d6d1dc513b",
    "log_group_name" : "my-group",
    "log_stream_id" : "eea03c27-e041-4bec-bd03-6afa10a6561a",
    "log_stream_name" : "lts-topic-cceapi"
  },
  "log_split" : true
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid access config name"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```


Status Codes

Status Code	Description
200	The ingestion configuration is created.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.5.4 Deleting Log Ingestion Configurations

Function

This API is used to delete log ingestion configurations.

URI

DELETE /v3/{project_id}/lts/access-config

Table 4-223 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Account Tenant ID, Project Resource Set ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-224 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-225 Request body parameters

Parameter	Mandatory	Type	Description
access_config_id_list	Yes	Array of strings	Ingestion configuration ID list. Minimum: **36** Maximum: **36**

Response Parameters

Status code: 200

Table 4-226 Response body parameters

Parameter	Type	Description
result	Array of **AccessConfigInfo** objects	Ingestion configuration list.
total	Long	Total number of ingestion configurations.

Table 4-227 AccessConfigInfo

Parameter	Type	Description
access_config_id	String	Ingestion configuration ID.
access_config_name	String	Ingestion configuration name.
access_config_type	String	Ingestion configuration type. The value **AGENT** indicates host log ingestion.
create_time	Long	Creation time.
access_config_detail	**AccessConfigDeatilResponse** object	Ingestion configuration details.
log_info	**AccessConfigQueryLogInfo** object	Log details.
host_group_info	**AccessConfigHostGroupIdList** object	Host group ID list.
access_config_tag	Array of **accessConfigTagResponse** objects	Tag information.
log_split	Boolean	Log splitting.
binary_collect	Boolean	Binary collection.
cluster_id	String	CCE cluster ID

Table 4-228 AccessConfigDeatilResponse

Parameter	Type	Description
paths	Array of strings	Collection paths.
black_paths	Array of strings	Collection path blacklist.
format	**AccessConfigFormatCreate** object	Log format.
windows_log_info	**AccessConfigWindowsLogInfoCreate** object	Windows event logs.
stdout	Boolean	Standard output switch. This parameter is used only for CCE log ingestion.
stderr	Boolean	Standard error switch. This parameter is used only for CCE log ingestion.

Parameter	Type	Description
pathType	String	CCE log ingestion type. This parameter is used only for CCE log ingestion.
namespaceRegex	String	Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.
podNameRegex	String	Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.
containerNameRegex	String	Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.
includeLabels	Map<String,String>	Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeLabels	Map<String,String>	Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
includeEnvs	Map<String,String>	Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeEnvs	Map<String,String>	Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logLabels	Map<String,String>	Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
logEnvs	Map<String,String>	Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
includeK8sLabels	Map<String,String>	Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.

Parameter	Type	Description
excludeK8sLabels	Map<String,String>	Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logK8s	Map<String,String>	Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.

Table 4-229 AccessConfigFormatCreate

Parameter	Type	Description
single	**AccessConfigFormatSingleCreate** object	Single-line logs.
multi	**AccessConfigFormatMutilCreate** object	Multi-line logs.

Table 4-230 AccessConfigFormatSingleCreate

Parameter	Type	Description
mode	String	Single-line logs. **system** indicates the system time, whereas **wildcard** indicates the time wildcard.
value	String	Log time.If **mode** is **system**, the value is the current timestamp.If **mode** is **wildcard**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-231 AccessConfigFormatMutilCreate

Parameter	Type	Description
mode	String	Single-line logs. **time** indicates a time wildcard is used to detect log boundaries, whereas **regular** indicates that a regular expression is used.
value	String	Log time.If **mode** is **regular**, the value is a regular expression.If **mode** is **time**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-232 AccessConfigWindowsLogInfoCreate

Parameter	Type	Description
categorys	Array of strings	Type of Windows event logs to be collected. • **Application**: application event logs. • **System**: system event logs. • **Security**: security event logs. • **Setup**: startup event logs.
time_offset	**AccessConfigTimeOffset** object	Offset from first collection time.
event_level	Array of strings	Event level. • **information**: common information events, which do not affect system running. • **warning**: warning events, which may affect system running but do not cause system breakdown. • **error**: error events, which cause system breakdown or prevent the service from running properly. • **critical**: critical events, which may cause system or application failures. • **verbose**: detailed event information, which does not affect the system running.

Table 4-233 AccessConfigTimeOffset

Parameter	Type	Description
offset	Long	Time offset. When **unit** is **day**, the value ranges from **1** to **7**. When **unit** is **hour**, the value ranges from **1** to **168**. When **unit** is **sec**, the value ranges from **1** to **604800**.
unit	String	Unit of the time offset. • **day** • **hour** • **sec**

Table 4-234 AccessConfigQueryLogInfo

Parameter	Type	Description
log_group_id	String	Log group ID.
log_stream_id	String	Log stream ID.
log_group_name	String	Log group name.
log_stream_name	String	Log stream name.
log_group_name_alias	String	Log group alias.
log_stream_name_alias	String	Log stream alias.

Table 4-235 AccessConfigHostGroupIdList

Parameter	Type	Description
host_group_id_list	Array of strings	List of host group IDs.

Table 4-236 accessConfigTagResponse

Parameter	Type	Description
key	String	Tag key.

Parameter	Type	Description
value	String	Tag value.

Status code: 400

Table 4-237 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-238 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Deleting Log Ingestion Configurations

```
DELETE https://{endpoint}/v3/{project_id}/lts/access-config

/v3/{project_id}/lts/access-config
{"access_config_id_list":["xxxx","xxxx"]}
```

Example Responses

Status code: 200

Ingestion configurations deleted.

```
{
  "result" : [ {
    "access_config_detail" : {
      "black_paths" : [ "/wjy/hei/tesxxx", "/wjy/hei/tesxxx" ],
      "format" : {
        "single" : {
          "mode" : "wildcard",
          "value" : "1111"
        }
      },
      "paths" : [ "/wjy/tesxxx", "/wjy/texxx", "/wjyxxxxx" ],
      "windows_log_info" : {
        "categorys" : [ "System", "Application", "Security", "Setup" ],
        "event_level" : [ "information", "warning", "error", "critical", "verbose" ],
        "time_offset" : {
```



```
        "offset" : 168,
        "unit" : "hour"
      }
    }
  },
  "access_config_id" : "aa58d29e-21a9-4761-ba16-8xxxxx",
  "access_config_name" : "CollectionWjyxxxxxt2",
  "access_config_tag" : [ {
    "key" : "xxx",
    "value" : "xxx"
  }, {
    "key" : "xxx1",
    "value" : "xxx1"
  } ],
  "access_config_type" : "AGENT",
  "create_time" : 1635043645628,
  "host_group_info" : {
    "host_group_id_list" : [ "de4dbed4-a3bc-4877-a7ee-0xxxxxx6" ]
  },
  "log_info" : {
    "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e89xxxxx0",
    "log_group_name" : "lts-groupxxxxxka",
    "log_stream_id" : "c4de0538-53e6-41fd-b951-a8xxxxx58d7",
    "log_stream_name" : "lts-topic-txxxxx"
  }
 } ],
 "total" : 1
}
```


Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
 "error_code" : "LTS.1807",
 "error_msg" : "Invalid access config id"
}
```


Status code: 500

The server has received the request but encountered an internal error.


```
{
 "error_code" : "LTS.0010",
 "error_msg" : "The system encountered an internal error"
}
```


Status Codes

Status Code	Description
200	Ingestion configurations deleted.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.5.5 Modifying a Log Ingestion Configuration

Function

This API is usde to modify a log ingestion configuration.

URI

PUT /v3/{project_id}/lts/access-config

Table 4-239 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Account Tenant ID, Project Resource Set ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-240 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/ json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-241 Request body parameters

Parameter	Mandatory	Type	Description
access_config_id	Yes	String	Ingestion configuration ID. Minimum: **36** Maximum: **36**
access_config_detail	No	**AccessConfigDeatilUpdate** object	Ingestion configuration details.
host_group_info	No	**AccessConfigHostGroupIdList** object	Host group ID list.
access_config_tag	No	Array of **accessConfigTag** objects	Tag information.
log_split	No	Boolean	Log splitting.
binary_collect	No	Boolean	Binary collection.
cluster_id	No	String	CCE cluster ID. This parameter is mandatory for the CCE type.

Table 4-242 AccessConfigDeatilUpdate

Parameter	Mandatory	Type	Description
paths	No	Array of strings	Log collection paths. Minimum: **1** Maximum: **128**
black_paths	No	Array of strings	Log collection blacklist paths. Minimum: **1** Maximum: **128**
format	No	**AccessConfigFormatUpdate** object	Log format.
windows_log_info	No	**AccessConfigWindowsLogInfoUpdate** object	Windows event logs. To stop collecting Windows event logs, leave this parameter to empty.
stdout	No	Boolean	Standard output switch. This parameter is used only when the CCE ingestion type is used.

Parameter	Mandatory	Type	Description
stderr	No	Boolean	Standard output error switch. This parameter is used only when the CCE ingestion type is used.
pathType	No	String	CCE ingestion type. This parameter is used only when the CCE ingestion type is used.
namespaceRegex	No	String	Regular expression matching of Kubernetes namespaces. This parameter is used only when the CCE ingestion type is used.
podNameRegex	No	String	Regular expression matching of the Kubernetes container name. This parameter is used only when the CCE ingestion type is used.
containerNameRegex	No	String	Regular expression matching of the Kubernetes container name. This parameter is used only when the CCE ingestion type is used.
includeLabels	No	Map<String,String>	Container label whitelist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when the access type is CCE.
excludeLabels	No	Map<String,String>	Container label blacklist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when the CCE access type is used.
includeEnvs	No	Map<String,String>	Environment variable whitelist. A maximum of 30 environment variable whitelists can be created. Key names must be unique. This parameter is used only when the access type is CCE.

Parameter	Mandatory	Type	Description
excludeEnvs	No	Map<String,String>	Environment variable blacklist. A maximum of 30 environment variables can be created. The key names must be unique. This parameter is used only when the CCE access type is used.
logLabels	No	Map<String,String>	Environment variable log tag. A maximum of 30 tags can be created. The key name must be unique. This parameter is used only when the access type is CCE.
logEnvs	No	Map<String,String>	Environment variable log tag. A maximum of 30 tags can be created. The key name must be unique. This parameter is used only when the access type is CCE.
includeK8sLabels	No	Map<String,String>	Specifies the Kubernetes label whitelist. A maximum of 30 Kubernetes label whitelists can be created. The key names must be unique. This parameter is used only when the access type is CCE.
excludeK8sLabels	No	Map<String,String>	Specifies the Kubernetes label blacklist. A maximum of 30 Kubernetes label blacklists can be created. The key names must be unique. This parameter is used only when the CCE access type is used.
logK8s	No	Map<String,String>	Specifies the Kubernetes label. A maximum of 30 Kubernetes labels can be created. The key names must be unique. This parameter is used only when the access type is CCE.

Table 4-243 AccessConfigFormatUpdate

Parameter	Mandatory	Type	Description
single	No	**AccessConfigFormatSingle** object	Single-line logs.
multi	No	**AccessConfigFormatMutil** object	Multi-line logs.

Table 4-244 AccessConfigFormatSingle

Parameter	Mandatory	Type	Description
mode	Yes	String	Single-line logs. **system** indicates the system time, whereas **wildcard** indicates the time wildcard.
value	Yes	String	Log time.If **mode** is **system**, the value is the current timestamp.If **mode** is **wildcard**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**. Minimum: **1** Maximum: **64**

Table 4-245 AccessConfigFormatMutil

Parameter	Mandatory	Type	Description
mode	Yes	String	Single-line logs. **time** indicates a time wildcard is used to detect log boundaries, whereas **regular** indicates that a regular expression is used.

Parameter	Mandatory	Type	Description
value	Yes	String	Log time.If **mode** is **regular**, the value is a regular expression.If **mode** is **time**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**. Minimum: **1** Maximum: **64**

Table 4-246 AccessConfigWindowsLogInfoUpdate

Parameter	Mandatory	Type	Description
categorys	No	Array of strings	The type of Windows event logs to be collected. **Application**: application system; **System**: system; **Security**: security; **Setup**: startup
time_offset	No	**AccessConfigTimeOffset** object	Time offset.

Parameter	Mandatory	Type	Description
event_level	No	Array of strings	Event level. • **information**: common information events, which do not affect system running. • **warning**: warning events, which may affect system running but do not cause system breakdown. • **error**: error events, which cause system breakdown or prevent the service from running properly. • **critical**: critical events, which may cause system or application failures. • **verbose**: detailed event information, which does not affect the system running.

Table 4-247 AccessConfigTimeOffset

Parameter	Mandatory	Type	Description
offset	Yes	Long	Time offset. When **unit** is **day**, the value ranges from **1** to **7**. When **unit** is **hour**, the value ranges from **1** to **168**. When **unit** is **sec**, the value ranges from **1** to **604800**.
unit	Yes	String	Unit of the time offset. • **day** • **hour** • **sec**

Table 4-248 AccessConfigHostGroupIdList

Parameter	Mandatory	Type	Description
host_group_id_list	Yes	Array of strings	List of host group IDs.

Table 4-249 accessConfigTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore ()*. Max 128 characters are allowed.
value	No	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-250 Response body parameters

Parameter	Type	Description
access_config_id	String	Ingestion configuration ID.
access_config_name	String	Ingestion configuration name.
access_config_type	String	Ingestion configuration type. The value **AGENT** indicates host log ingestion.
create_time	Long	Creation time.
access_config_detail	**AccessConfigDetailResponse** object	Ingestion configuration details.
log_info	**AccessConfigQueryLogInfo** object	Log details.
host_group_info	**AccessConfigHostGroupIdList** object	Host group ID list.
access_config_tag	Array of **accessConfigTagResponse** objects	Tag information.
log_split	Boolean	Log splitting.
binary_collect	Boolean	Binary collection.
cluster_id	String	CCE cluster ID

Table 4-251 AccessConfigDeatilResponse

Parameter	Type	Description
paths	Array of strings	Collection paths.
black_paths	Array of strings	Collection path blacklist.
format	**AccessConfigFormatCreate** object	Log format.
windows_log_info	**AccessConfigWindowsLogInfoCreate** object	Windows event logs.
stdout	Boolean	Standard output switch. This parameter is used only for CCE log ingestion.
stderr	Boolean	Standard error switch. This parameter is used only for CCE log ingestion.
pathType	String	CCE log ingestion type. This parameter is used only for CCE log ingestion.
namespaceRegex	String	Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.
podNameRegex	String	Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.
containerNameRegex	String	Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.
includeLabels	Map<String,String>	Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeLabels	Map<String,String>	Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
includeEnvs	Map<String,String>	Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.

Parameter	Type	Description
excludeEnvs	Map<String,String>	Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logLabels	Map<String,String>	Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
logEnvs	Map<String,String>	Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.
includeK8sLabels	Map<String,String>	Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.
excludeK8sLabels	Map<String,String>	Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.
logK8s	Map<String,String>	Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.

Table 4-252 AccessConfigFormatCreate

Parameter	Type	Description
single	**AccessConfigFormatSingleCreate** object	Single-line logs.
multi	**AccessConfigFormatMutilCreate** object	Multi-line logs.

Table 4-253 AccessConfigFormatSingleCreate

Parameter	Type	Description
mode	String	Single-line logs. **system** indicates the system time, whereas **wildcard** indicates the time wildcard.

Parameter	Type	Description
value	String	Log time.If **mode** is **system**, the value is the current timestamp.If **mode** is **wildcard**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-254 AccessConfigFormatMutilCreate

Parameter	Type	Description
mode	String	Single-line logs. **time** indicates a time wildcard is used to detect log boundaries, whereas **regular** indicates that a regular expression is used.
value	String	Log time.If **mode** is **regular**, the value is a regular expression.If **mode** is **time**, the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is **2019-01-01 23:59:59**, the time wildcard is **YYYY-MM-DD hh:mm:ss**. If the time format in a log event is **19-1-1 23:59:59**, the time wildcard is **YY-M-D hh:mm:ss**.

Table 4-255 AccessConfigWindowsLogInfoCreate

Parameter	Type	Description
categorys	Array of strings	Type of Windows event logs to be collected. • **Application**: application event logs. • **System**: system event logs. • **Security**: security event logs. • **Setup**: startup event logs.
time_offset	**AccessConfigTimeOffset** object	Offset from first collection time.

Parameter	Type	Description
event_level	Array of strings	Event level. • **information**: common information events, which do not affect system running. • **warning**: warning events, which may affect system running but do not cause system breakdown. • **error**: error events, which cause system breakdown or prevent the service from running properly. • **critical**: critical events, which may cause system or application failures. • **verbose**: detailed event information, which does not affect the system running.

Table 4-256 AccessConfigTimeOffset

Parameter	Type	Description
offset	Long	Time offset. When **unit** is **day**, the value ranges from **1** to **7**. When **unit** is **hour**, the value ranges from **1** to **168**. When **unit** is **sec**, the value ranges from **1** to **604800**.
unit	String	Unit of the time offset. • **day** • **hour** • **sec**

Table 4-257 AccessConfigQueryLogInfo

Parameter	Type	Description
log_group_id	String	Log group ID.
log_stream_id	String	Log stream ID.
log_group_name	String	Log group name.
log_stream_name	String	Log stream name.

Parameter	Type	Description
log_group_name_alias	String	Log group alias.
log_stream_name_alias	String	Log stream alias.

Table 4-258 AccessConfigHostGroupIdList

Parameter	Type	Description
host_group_id_list	Array of strings	List of host group IDs.

Table 4-259 accessConfigTagResponse

Parameter	Type	Description
key	String	Tag key.
value	String	Tag value.

Status code: 400

Table 4-260 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 500

Table 4-261 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

Modifying a Log Ingestion Configuration (for ECS)


```
PUT https://{endpoint}/v3/{project_id}/lts/access-config

{
  "access_config_id" : "ed90802a-8475-4702-955e-e3ee16a5dde9",
  "access_config_detail" : {
    "paths" : [ "/test/222", "/test/111" ],
    "black_paths" : [ ],
    "format" : {
      "multi" : {
        "mode" : "regular",
        "value" : "aaaa"
      }
    },
    "windows_log_info" : {
      "categorys" : [ "Application", "System" ],
      "time_offset" : {
        "offset" : 7,
        "unit" : "day"
      },
      "event_level" : [ "information", "warning", "error", "critical", "verbose" ]
    }
  },
  "host_group_info" : {
    "host_group_id_list" : [ "de4dbed4-a3bc-4877-a7ee-096a2a63e036" ]
  },
  "access_config_tag" : [ {
    "key" : "xxx",
    "value" : "xxx"
  }, {
    "key" : "xxx1",
    "value" : "xxx1"
  } ]
}
```

Example Responses

Status code: 200

Ingestion configuration modified.

```
{
  "access_config_detail" : {
    "black_paths" : [ "/wjy/hei/tesxxx", "/wjy/hei/tesxxx" ],
    "format" : {
      "single" : {
        "mode" : "wildcard",
        "value" : "1111"
      }
    },
    "paths" : [ "/wjy/tesxxx" ],
    "windows_log_info" : {
      "categorys" : [ "System", "Application", "Security", "Setup" ],
      "event_level" : [ "information", "warning", "error", "critical", "verbose" ],
      "time_offset" : {
        "offset" : 168,
        "unit" : "hour"
      }
    }
  },
  "access_config_id" : "aa58d29e-21a9-4761-ba16-8cxxxxd",
  "access_config_name" : "CollectionWjy_xxxxt2",
  "access_config_tag" : [ {
    "key" : "xxx",
    "value" : "xxx"
  }, {
    "key" : "xxx1",
    "value" : "xxx1"
  } ],
  "access_config_type" : "AGENT",
```



```
  "create_time" : 163504332654,
  "host_group_info" : {
    "host_group_id_list" : [ "de4dbed4-a3bc-4877-a7ee-09xxxxxx" ]
  },
  "log_info" : {
    "log_group_id" : "9a7e2183-2d6d-4732-9axxxxx49e0",
    "log_group_name" : "lts-groupxxxa",
    "log_group_name_alias" : "lts-groupxxxa",
    "log_stream_id" : "c4de0538-53e6-41fd-b951-xxxx8d7",
    "log_stream_name" : "lts-topixxx",
    "log_stream_name_alias" : "lts-topixxx"
  }
}
```


Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid access config id"
}
```


Status code: 500

The server has received the request but encountered an internal error.


```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```


Status Codes

Status Code	Description
200	Ingestion configuration modified.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.6 Log Transfer

4.6.1 Creating a Log Transfer Task (Old Version)

Function

This API is used to transfer logs of one or more specified log streams to Object Storage Service (OBS).

URI

POST /v2/{project_id}/log-dump/obs

Table 4-262 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-263 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-264 Request body parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. Minimum: **36** Maximum: **36**
log_stream_ids	Yes	Array of strings	Indicates IDs of log streams whose logs are to be periodically transferred to OBS. You can specify one or more log streams.
obs_bucket_name	Yes	String	Name of an OBS bucket. Minimum: **3** Maximum: **63**
type	Yes	String	Set this parameter to **cycle**, which indicates that the log transfer is periodic. Minimum: **5** Maximum: **5**
storage_format	Yes	String	Whether the logs are stored in raw or JSON format. The default value is **RAW**. Minimum length: 3 characters. Maximum length: 4 characters.
switch_on	No	Boolean	Whether log transfer is enabled. The value is **true** (default) or **false**.
prefix_name	No	String	The file name prefix of the log files transferred to an OBS bucket. Minimum: **0** Maximum: **64**
dir_prefix_name	No	String	A custom path to store the log files. Minimum: **0** Maximum: **64**
period	Yes	Integer	Length of the log transfer interval.

Parameter	Mandatory	Type	Description
period_unit	Yes	String	Unit of the log transfer interval.>The combination of **period** and **period_unit** must be one of ["**2min**","**5min**","**30min**","**1hour**","**3hour**","**6hour**","**12hour**"]. Minimum: **3** Maximum: **4**

Response Parameters

Status code: 201

Table 4-265 Response body parameters

Parameter	Type	Description
log_dump_obs_id	String	Transfer task ID.

Status code: 400

Table 4-266 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-267 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-268 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Creating a log transfer task

```
POST https://{endpoint}/v2/{project_id}/log-dump/obs

{
  "log_group_id" : "d9dba9f3-xxxx-48bd-xxxx-xxxxa24a8053",
  "log_stream_ids" : [ "45e7f609-xxxx-4cd3-835b-xxxx4a124718" ],
  "obs_bucket_name" : "lts-test",
  "type" : "cycle",
  "storage_format" : "RAW",
  "switch_on" : "true",
  "prefix_name" : "fileprefixname",
  "dir_prefix_name" : "dirprefixname",
  "period" : 5,
  "period_unit" : "min"
}
```

Example Responses

Status code: 200

The request is successful.

- The log group does not exist.

  ```
  {
    "error_code" : "LTS.0201",
    "error_msg" : "The log group does not existed"
  }
  ```

- The log stream does not exist.

  ```
  {
    "error_code" : "LTS.0208",
    "error_msg" : "Log stream id does not exist: 632b9bdc-5afd-4666-a5de-2579f8b80314-"
  }
  ```

- The OBS bucket does not exist.

  ```
  {
    "error_code" : "LTS.0416",
    "error_msg" : "obs bucket does not exist: zhuanchu"
  }
  ```

- The log stream ID has been associated during log transfer.

  ```
  {
    "error_code" : "LTS.0207",
    "error_msg" : "Log stream id is associated by transfer: 632b9bdc-5afd-4666-a5de-2579f8b80314"
  }
  ```

- The transfer type is not in the list.

  ```
  {
    "error_code" : "LTS.1901",
    "error_msg" : "type is not in the list [cycle]"
  }
  ```


- The transfer format is not in the list.

```
{
  "error_code" : "LTS.1901",
  "error_msg" : "storage_format is not in the list [RAW, JSON]"
}
```

- The transfer interval is not in the list.

```
{
  "error_code" : "LTS.1901",
  "error_msg" : "period+period_unit is not in the list [2min, 5min, 30min, 1hour, 3hour, 6hour, 12hour]"
}
```

- The transfer unit is not in the list.

```
{
  "error_code" : "LTS.1901",
  "error_msg" : "period_unit is not in the list [min, hour]"
}
```

- The prefix of the transferred log file is invalid. Check the prefix.

```
{
  "error_code" : "LTS.1902",
  "error_msg" : "prefix_name is invalid, please verify if it's provided as required"
}
```

- The prefix of the custom transfer path is invalid. Check the prefix.

```
{
  "error_code" : "LTS.1902",
  "error_msg" : "dir_prefix_name is invalid, please verify if it's provided as required"
}
```

Status code: 201

The request is successful.

```
{
  "log_dump_obs_id" : "45fdc36b-xxxx-4567-xxxx-559xxxxdf968"
}
```

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
{
  "error_code": "LTS.0007",
  "error_msg": "The request body format must be json"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.


```
InternalServerError. The server has received the request but encountered an internal error.
{
  "error_code": "LTS.0010",
  "error_msg": "Internal Server Error"}
```

Status Codes

Status Code	Description
200	The request is successful.
201	The request is successful.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.6.2 Creating a Log Transfer Task (New Version)

Function

This API is used to transfer logs to OBS, DIS, and DMS.

URI

POST /v2/{project_id}/transfers

Table 4-269 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-270 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-271 Request body parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. Minimum length: 36 characters. Maximum length: 36 characters Minimum: **36** Maximum: **36**
log_streams	Yes	Array of **LogStreams** objects	Log stream list.
log_transfer_info	Yes	**log_transfer_info** object	Log transfer information.

Table 4-272 LogStreams

Parameter	Mandatory	Type	Description
log_stream_id	Yes	String	Log stream ID. Minimum: **36** Maximum: **36**

Parameter	Mandatory	Type	Description
log_stream_name	No	String	Log stream name.

Table 4-273 log_transfer_info

Parameter	Mandatory	Type	Description
log_transfer_type	Yes	String	Log transfer type. You can transfer logs to OBS, DIS, and DMS.
log_transfer_mode	Yes	String	Log transfer mode. **cycle** indicates periodical transfer, and **realTime** indicates real-time transfer. **cycle** is available to OBS transfer tasks and **realTime** is available to DIS and DMS transfer tasks.
log_storage_format	Yes	String	Log transfer format. The value can be **RAW** or **JSON**. **RAW** indicates the raw log format, and **JSON** indicates the JSON format. **JSON** and **RAW** are supported for OBS and DIS transfer tasks, but only **RAW** is supported for DMS transfer tasks.
log_transfer_status	Yes	String	Log transfer status. The value can be **ENABLE**, **DISABLE**, or **EXCEPTION**. **ENABLE** indicates that log transfer is enabled, **DISABLE** indicates that log transfer is disabled, and **EXCEPTION** indicates that log transfer is abnormal.
log_agency_transfer	No	**log_agency_transfer** object	Information about delegated log transfer. This parameter is required if you transfer logs for another account.
log_transfer_detail	Yes	**log_transfer_detail** object	Log transfer details.

Table 4-274 log_agency_transfer

Parameter	Mandatory	Type	Description
agency_domain_id	Yes	String	Delegator account ID.
agency_domain_name	Yes	String	Delegator account name.
agency_name	Yes	String	Name of the agency created by the delegator.
agency_project_id	Yes	String	Project ID of the delegator.
be_agency_domain_id	Yes	String	Account ID of the delegated party (ID of the account that created the log transfer task).
be_agency_project_id	Yes	String	Project ID of the delegated party (project ID of the account that created the log transfer task).

Table 4-275 log_transfer_detail

Parameter	Mandatory	Type	Description
obs_period	Yes	Integer	Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.

Parameter	Mandatory	Type	Description
obs_period_unit	Yes	String	Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_bucket_name	Yes	String	OBS bucket name. This parameter is required when you create an OBS transfer task. Minimum: **3** Maximum: **63**
obs_encrypted_id	No	String	KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket. Minimum: **36** Maximum: **36**
obs_dir_prefix_name	No	String	Custom transfer path of an OBS transfer task. This parameter is optional. Minimum: **1** Maximum: **64**
obs_prefix_name	No	String	Transfer file prefix of an OBS transfer task. This parameter is optional. Minimum: **1** Maximum: **64**
obs_time_zone	No	String	Time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone_id** must also be specified.

Parameter	Mandatory	Type	Description
obs_time_zone_id	No	String	ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone** must also be specified.
dis_id	No	String	DIS stream ID. This parameter is required when you create a DIS transfer task. Minimum: **1** Maximum: **128**
dis_name	No	String	DIS stream name. This parameter is required when you create a DIS transfer task. Minimum: **1** Maximum: **64**
kafka_id	No	String	Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
kafka_topic	No	String	Kafka topic of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
obs_transfer_path	No	String	OBS bucket path, which is the log transfer destination.
obs_eps_id	No	String	Enterprise project ID of an OBS transfer task.
obs_encrypted_enable	No	Boolean	Whether OBS bucket encryption is enabled.

Parameter	Mandatory	Type	Description
tags	No	Array of strings	If tag delivery is enabled, this field must contain the following host information: **hostIP**, **hostId**, **hostName**, **pathFile**, and **collectTime**. The common fields are **logStreamName**, **regionName**, **logGroupName**, and **projectId**, which are optional. The tag for enabling transfer is **streamTag**, which is optional.

Response Parameters

Status code: 200

Table 4-276 Response body parameters

Parameter	Type	Description
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
log_streams	Array of **log_streams** objects	Log stream list.
log_transfer_id	String	Log transfer task ID.
log_transfer_info	**log_transfer_info_RespBody** object	Log transfer information.

Table 4-277 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.

Table 4-278 log_transfer_info_RespBody

Parameter	Type	Description
log_agency_transfer	**log_agency_transfer** object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Integer	Time when the log transfer task was created.
log_storage_format	String	Log transfer format. The value can be **RAW** or **JSON**. **RAW** indicates the raw log format, and **JSON** indicates the JSON format. **JSON** and **RAW** are supported for OBS and DIS transfer tasks, but only **RAW** is supported for DMS transfer tasks.
log_transfer_detail	**TransferDetail** object	Log transfer details.
log_transfer_mode	String	Log transfer mode. **cycle** indicates periodical transfer, and **realTime** indicates real-time transfer. **cycle** is available to OBS transfer tasks and **realTime** is available to DIS and DMS transfer tasks.
log_transfer_status	String	Log transfer status. **ENABLE** indicates that log transfer is enabled, **DISABLE** indicates that log transfer is disabled, and **EXCEPTION** indicates that log transfer is abnormal.
log_transfer_type	String	Log transfer type. You can transfer logs to OBS, DIS, and DMS.

Table 4-279 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID.
agency_domain_name	String	Delegator account name.
agency_name	String	Name of the agency created by the delegator.
agency_project_id	String	Project ID of the delegator.
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task).

Parameter	Type	Description
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task).

Table 4-280 TransferDetail

Parameter	Type	Description
obs_period	Integer	Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_period_unit	String	Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_bucket_name	String	OBS bucket name. This parameter is required when you create an OBS transfer task.
obs_encrypted_id	String	KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.
obs_dir_pre_fix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)*(/)?$

Parameter	Type	Description
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^[a-zA-Z0-9._-]*$
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, **obs_time_zone_id** must also be specified.
obs_time_zone_id	String	ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone** must also be specified.
dis_id	String	DIS stream ID. This parameter is required when you create a DIS transfer task.
dis_name	String	DIS stream name. This parameter is required when you create a DIS transfer task.
kafka_id	String	Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
kafka_topic	String	Kafka topic of a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
obs_transfer_path	String	OBS bucket path, which is the log transfer destination.
obs_eps_id	String	Enterprise project ID of an OBS transfer task.
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled.

Parameter	Type	Description
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: **hostIP**, **hostId**, **hostName**, **pathFile**, and **collectTime**. The common fields include **logStreamName**, **regionName**, **logGroupName** and **projectId**, which are optional. The transfer tag **streamTag** is optional.

Status code: 400

Table 4-281 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-282 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Transferring logs to OBS

```
POST https://{endpoint}/v2/{project_id}/transfers

{
  "log_group_id" : "8ba9e43f-be60-4d8c-9015-xxxxxxxxxxxx",
  "log_streams" : [ {
    "log_stream_id" : "c776e1a7-8548-430a-afe5-xxxxxxxxxxxx"
  } ],
  "log_transfer_info" : {
    "log_transfer_type" : "OBS",
    "log_transfer_mode" : "xxxxx",
    "log_storage_format" : "XXX",
    "log_transfer_status" : "XXXXX",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
```



```
    "agency_name" : "test20210325",
    "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
    "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
    "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
   },
   "log_transfer_detail" : {
    "obs_period" : 2,
    "obs_period_unit" : "min",
    "obs_bucket_name" : "xxxxx",
    "obs_encrypted_id" : "1bd90032-1424-481f-8558-ba49854xxxxx",
    "obs_dir_pre_fix_name" : "xx",
    "obs_prefix_name" : "xxxxx",
    "obs_time_zone" : "UTC+01:00",
    "obs_time_zone_id" : "Africa/Lagos"
   }
  }
}
```

- Creating a DIS transfer task

```
POST https://{endpoint}/v2/{project_id}/transfers

{
 "log_group_id" : "8ba9e43f-be60-4d8c-9015-xxxxxxxxxxxx",
 "log_streams" : [ {
  "log_stream_id" : "c776e1a7-8548-430a-afe5-xxxxxxxxxxxx"
 } ],
 "log_transfer_info" : {
  "log_transfer_type" : "DIS",
  "log_transfer_mode" : "xxxxx",
  "log_storage_format" : "XXX",
  "log_transfer_status" : "XXXXX",
  "log_agency_transfer" : {
   "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
   "agency_domain_name" : "paas_apm_z004xxxxx_xx",
   "agency_name" : "test20210325",
   "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
   "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
   "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
  },
  "log_transfer_detail" : {
   "dis_id" : "i1y8vfMTvf4LQzxxxxx",
   "dis_name" : "xxxxx"
  }
 }
}
```

Example Responses

Status code: 200

The log transfer task is created.

- The following parameters are returned for an OBS transfer task:

```
{
 "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
 "log_group_name" : "lts-group-kafka",
 "log_streams" : [ {
  "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
  "log_stream_name" : "lts-topic-kafka"
 } ],
 "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
 "log_transfer_info" : {
  "log_create_time" : 1634802241847,
  "log_storage_format" : "JSON",
  "log_agency_transfer" : {
   "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
   "agency_domain_name" : "paas_apm_z004xxxxx_xx",
   "agency_name" : "test20210325",
```



```
    "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
    "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
    "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
   },
   "log_transfer_detail" : {
    "obs_period" : 2,
    "obs_prefix_name" : "",
    "obs_period_unit" : "min",
    "obs_transfer_path" : "/0002/LogTanks/xxxx-7/",
    "obs_bucket_name" : "0002",
    "obs_encrypted_enable" : false,
    "obs_dir_pre_fix_name" : "",
    "obs_time_zone" : "UTC+01:00",
    "obs_time_zone_id" : "Africa/Lagos",
    "tags" : [ ]
   },
   "log_transfer_mode" : "cycle",
   "log_transfer_status" : "ENABLE",
   "log_transfer_type" : "OBS"
  }
}
```


- The following parameters are returned for a DIS transfer task:


```
{
 "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
 "log_group_name" : "lts-group-kafka",
 "log_streams" : [ {
  "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
  "log_stream_name" : "lts-topic-kafka"
 } ],
 "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
 "log_transfer_info" : {
  "log_create_time" : 1634802241847,
  "log_storage_format" : "JSON",
  "log_agency_transfer" : {
   "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
   "agency_domain_name" : "paas_apm_z004xxxxx_xx",
   "agency_name" : "test20210325",
   "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
   "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
   "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
  },
  "log_transfer_detail" : {
   "dis_id" : "xxxxx",
   "dis_name" : "xxxxxx",
   "tags" : [ ]
  },
  "log_transfer_mode" : "cycle",
  "log_transfer_status" : "ENABLE",
  "log_transfer_type" : "OBS"
 }
}
```


- The following parameters are returned for a DMS transfer task:


```
{
 "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
 "log_group_name" : "lts-group-kafka",
 "log_streams" : [ {
  "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
  "log_stream_name" : "lts-topic-kafka"
 } ],
 "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
 "log_transfer_info" : {
  "log_create_time" : 1634802241847,
  "log_storage_format" : "JSON",
  "log_agency_transfer" : {
   "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
   "agency_domain_name" : "paas_apm_z004xxxxx_xx",
   "agency_name" : "test20210325",
   "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
```



```
    "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
    "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
   },
   "log_transfer_detail" : {
    "kafka_id" : "xxxxxx",
    "kafka_topic" : "xxxxx",
    "tags" : [ ]
   },
   "log_transfer_mode" : "cycle",
   "log_transfer_status" : "ENABLE",
   "log_transfer_type" : "OBS"
  }
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0207",
  "error_msg" : "The log stream is associated by transfer"
}
```

Status code: 500

InternalServerError. The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0207",
  "error_msg" : "The log stream is associated by transfer"
}
```

Status Codes

Status Code	Description
200	The log transfer task is created.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.6.3 Deleting a Log Transfer Task

Function

This API is used to delete an OBS, DIS, or DMS transfer task.

URI

DELETE /v2/{project_id}/transfers

Table 4-283 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-284 Query Parameters

Parameter	Mandatory	Type	Description
log_transfer_id	Yes	String	Log transfer task ID. You can obtain the ID by using one of the following methods: 1. Calling the API for querying a log transfer task. 2. Calling the API for creating a log transfer task. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-285 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-286 Response body parameters

Parameter	Type	Description
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
log_streams	Array of **log_streams** objects	Log stream list.
log_transfer_id	String	Log transfer task ID.
log_transfer_info	**log_transfer_info_RespBody** object	Log transfer information.

Table 4-287 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.

Table 4-288 log_transfer_info_RespBody

Parameter	Type	Description
log_agency_transfer	**log_agency_transfer** object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Integer	Time when the log transfer task was created.

Parameter	Type	Description
log_storage_format	String	Log transfer format. The value can be **RAW** or **JSON**. **RAW** indicates the raw log format, and **JSON** indicates the JSON format. **JSON** and **RAW** are supported for OBS and DIS transfer tasks, but only **RAW** is supported for DMS transfer tasks.
log_transfer_detail	**TransferDetail** object	Log transfer details.
log_transfer_mode	String	Log transfer mode. **cycle** indicates periodical transfer, and **realTime** indicates real-time transfer. **cycle** is available to OBS transfer tasks and **realTime** is available to DIS and DMS transfer tasks.
log_transfer_status	String	Log transfer status. **ENABLE** indicates that log transfer is enabled, **DISABLE** indicates that log transfer is disabled, and **EXCEPTION** indicates that log transfer is abnormal.
log_transfer_type	String	Log transfer type. You can transfer logs to OBS, DIS, and DMS.

Table 4-289 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID.
agency_domain_name	String	Delegator account name.
agency_name	String	Name of the agency created by the delegator.
agency_project_id	String	Project ID of the delegator.
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task).
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task).

Table 4-290 TransferDetail

Parameter	Type	Description
obs_period	Integer	Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_period_unit	String	Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_bucket_name	String	OBS bucket name. This parameter is required when you create an OBS transfer task.
obs_encrypted_id	String	KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.
obs_dir_pre_fix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)*(/)?$
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^[a-zA-Z0-9._-]*$
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, **obs_time_zone_id** must also be specified.

Parameter	Type	Description
obs_time_zone_id	String	ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone** must also be specified.
dis_id	String	DIS stream ID. This parameter is required when you create a DIS transfer task.
dis_name	String	DIS stream name. This parameter is required when you create a DIS transfer task.
kafka_id	String	Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
kafka_topic	String	Kafka topic of a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
obs_transfer_path	String	OBS bucket path, which is the log transfer destination.
obs_eps_id	String	Enterprise project ID of an OBS transfer task.
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled.
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: **hostIP**, **hostId**, **hostName**, **pathFile**, and **collectTime**. The common fields include **logStreamName**, **regionName**, **logGroupName** and **projectId**, which are optional. The transfer tag **streamTag** is optional.

Status code: 400

Table 4-291 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-292 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Deleting a log transfer task based on the task ID

```
DELETE https://{endpoint}/v2/{project_id}/transfers

/v2/{project_id}/transfers?log_transfer_id=cfc43c45-9edc-4a03-8578-0eb00cxxxxxx
```

Example Responses

Status code: 200

The log transfer task is deleted.

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "obs_period" : 2,
      "obs_prefix_name" : "",
      "obs_period_unit" : "min",
      "obs_transfer_path" : "/0002/LogTanks/xxx/",
      "obs_bucket_name" : "0002",
      "obs_encrypted_enable" : false,
      "obs_dir_pre_fix_name" : "",
```



```
    "obs_time_zone" : "UTC+01:00",
    "obs_time_zone_id" : "Africa/Lagos",
    "dis_id" : "xxxxx",
    "dis_name" : "xxxxxx",
    "kafka_id" : "xxxxxx",
    "kafka_topic" : "xxxxx"
   },
   "log_transfer_mode" : "cycle",
   "log_transfer_status" : "ENABLE",
   "log_transfer_type" : "OBS"
  }
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0405",
  "error_msg" : "The log transfer does not existed"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	The log transfer task is deleted.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.6.4 Updating a Log Transfer Task

Function

This API is used to update an OBS, DIS, or DMS transfer task.

URI

PUT /v2/{project_id}/transfers

Table 4-293 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-294 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-295 Request body parameters

Parameter	Mandatory	Type	Description
log_transfer_id	Yes	String	Log transfer task ID. Minimum: **36** Maximum: **36**
log_transfer_info	Yes	**update_log_transfer_info** object	Log transfer information.

Table 4-296 update_log_transfer_info

Parameter	Mandatory	Type	Description
log_storage_format	Yes	String	Log transfer format. The value can be **RAW** or **JSON**. **RAW** indicates the raw log format, and **JSON** indicates the JSON format. **JSON** and **RAW** are supported for OBS and DIS transfer tasks, but only **RAW** is supported for DMS transfer tasks.
log_transfer_status	Yes	String	Log transfer status. **ENABLE** indicates that log transfer is enabled, **DISABLE** indicates that log transfer is disabled, and **EXCEPTION** indicates that log transfer is abnormal.
log_transfer_detail	Yes	**log_transfer_detail** object	Log transfer details.

Table 4-297 log_transfer_detail

Parameter	Mandatory	Type	Description
obs_period	Yes	Integer	Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.

Parameter	Mandatory	Type	Description
obs_period_unit	Yes	String	Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_bucket_name	Yes	String	OBS bucket name. This parameter is required when you create an OBS transfer task. Minimum: **3** Maximum: **63**
obs_encrypted_id	No	String	KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket. Minimum: **36** Maximum: **36**
obs_dir_prefix_name	No	String	Custom transfer path of an OBS transfer task. This parameter is optional. Minimum: **1** Maximum: **64**
obs_prefix_name	No	String	Transfer file prefix of an OBS transfer task. This parameter is optional. Minimum: **1** Maximum: **64**
obs_time_zone	No	String	Time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone_id** must also be specified.

Parameter	Mandatory	Type	Description
obs_time_zone_id	No	String	ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone** must also be specified.
dis_id	No	String	DIS stream ID. This parameter is required when you create a DIS transfer task. Minimum: **1** Maximum: **128**
dis_name	No	String	DIS stream name. This parameter is required when you create a DIS transfer task. Minimum: **1** Maximum: **64**
kafka_id	No	String	Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
kafka_topic	No	String	Kafka topic of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
obs_transfer_path	No	String	OBS bucket path, which is the log transfer destination.
obs_eps_id	No	String	Enterprise project ID of an OBS transfer task.
obs_encrypted_enable	No	Boolean	Whether OBS bucket encryption is enabled.

Parameter	Mandatory	Type	Description
tags	No	Array of strings	If tag delivery is enabled, this field must contain the following host information: **hostIP**, **hostId**, **hostName**, **pathFile**, and **collectTime**. The common fields are **logStreamName**, **regionName**, **logGroupName**, and **projectId**, which are optional. The tag for enabling transfer is **streamTag**, which is optional.

Response Parameters

Status code: 200

Table 4-298 Response body parameters

Parameter	Type	Description
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
log_streams	Array of **log_streams** objects	Log stream list.
log_transfer_id	String	Log transfer task ID.
log_transfer_info	**log_transfer_info_RespBody** object	Log transfer information.

Table 4-299 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.

Table 4-300 log_transfer_info_RespBody

Parameter	Type	Description
log_agency_transfer	**log_agency_transfer** object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Integer	Time when the log transfer task was created.
log_storage_format	String	Log transfer format. The value can be **RAW** or **JSON**. **RAW** indicates the raw log format, and **JSON** indicates the JSON format. **JSON** and **RAW** are supported for OBS and DIS transfer tasks, but only **RAW** is supported for DMS transfer tasks.
log_transfer_detail	**TransferDetail** object	Log transfer details.
log_transfer_mode	String	Log transfer mode. **cycle** indicates periodical transfer, and **realTime** indicates real-time transfer. **cycle** is available to OBS transfer tasks and **realTime** is available to DIS and DMS transfer tasks.
log_transfer_status	String	Log transfer status. **ENABLE** indicates that log transfer is enabled, **DISABLE** indicates that log transfer is disabled, and **EXCEPTION** indicates that log transfer is abnormal.
log_transfer_type	String	Log transfer type. You can transfer logs to OBS, DIS, and DMS.

Table 4-301 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID.
agency_domain_name	String	Delegator account name.
agency_name	String	Name of the agency created by the delegator.
agency_project_id	String	Project ID of the delegator.
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task).

Parameter	Type	Description
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task).

Table 4-302 TransferDetail

Parameter	Type	Description
obs_period	Integer	Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_period_unit	String	Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_bucket_name	String	OBS bucket name. This parameter is required when you create an OBS transfer task.
obs_encrypted_id	String	KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.
obs_dir_pre_fix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)*(/)?$

Parameter	Type	Description
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^[a-zA-Z0-9._-]*$
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, **obs_time_zone_id** must also be specified.
obs_time_zone_id	String	ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone** must also be specified.
dis_id	String	DIS stream ID. This parameter is required when you create a DIS transfer task.
dis_name	String	DIS stream name. This parameter is required when you create a DIS transfer task.
kafka_id	String	Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
kafka_topic	String	Kafka topic of a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
obs_transfer_path	String	OBS bucket path, which is the log transfer destination.
obs_eps_id	String	Enterprise project ID of an OBS transfer task.
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled.

Parameter	Type	Description
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: **hostIP**, **hostId**, **hostName**, **pathFile**, and **collectTime**. The common fields include **logStreamName**, **regionName**, **logGroupName** and **projectId**, which are optional. The transfer tag **streamTag** is optional.

Status code: 400

Table 4-303 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-304 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Updating an OBS transfer task

```
PUT https://{endpoint}/v2/{project_id}/transfers

{
  "log_transfer_id" : "9f74e101-b969-483c-a610-d3f3064xxxxx",
  "log_transfer_info" : {
    "log_storage_format" : "JSON",
    "log_transfer_status" : "DISABLE",
    "log_transfer_detail" : {
      "obs_period" : 3,
      "obs_period_unit" : "hour",
      "obs_bucket_name" : "0xxx",
      "obs_encrypted_id" : "1bd90032-1424-481f-8558-ba49854xxxxx",
      "obs_dir_pre_fix_name" : "xx",
      "obs_prefix_name" : "xxxxx",
      "obs_time_zone" : "UTC+01:00",
```



```
    "obs_time_zone_id" : "Africa/Lagos"
   }
  }
}
```

- Updating a DIS transfer task

```
PUT https://{endpoint}/v2/{project_id}/transfers

{
  "log_transfer_id" : "9f74e101-b969-483c-a610-d3f3064xxxxx",
  "log_transfer_info" : {
    "log_storage_format" : "JSON",
    "log_transfer_status" : "DISABLE",
    "log_transfer_detail" : {
      "dis_id" : "xxxxx",
      "dis_name" : "xxxxxx"
    }
  }
}
```

- Updating a DMS transfer task

```
PUT https://{endpoint}/v2/{project_id}/transfers

{
  "log_transfer_id" : "9f74e101-b969-483c-a610-d3f3064xxxxx",
  "log_transfer_info" : {
    "log_storage_format" : "JSON",
    "log_transfer_status" : "DISABLE",
    "log_transfer_detail" : {
      "kafka_id" : "xxxxx",
      "kafka_topic" : "xxxxxx"
    }
  }
}
```

Example Responses

Status code: 200

The transfer task is updated.

- The following parameters are returned for an OBS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "obs_period" : 2,
      "obs_prefix_name" : "",
      "obs_period_unit" : "min",
      "obs_transfer_path" : "/0002/LogTanks/xxxx-7/",
      "obs_bucket_name" : "0002",
      "obs_encrypted_enable" : false,
```



```
    "obs_dir_pre_fix_name" : "",
    "obs_time_zone" : "UTC+01:00",
    "obs_time_zone_id" : "Africa/Lagos",
    "tags" : [ ]
   },
   "log_transfer_mode" : "cycle",
   "log_transfer_status" : "ENABLE",
   "log_transfer_type" : "OBS"
  }
}
```


- The following parameters are returned for a DIS transfer task:


```
{
 "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
 "log_group_name" : "lts-group-kafka",
 "log_streams" : [ {
   "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
   "log_stream_name" : "lts-topic-kafka"
 } ],
 "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
 "log_transfer_info" : {
   "log_create_time" : 1634802241847,
   "log_storage_format" : "JSON",
   "log_agency_transfer" : {
     "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
     "agency_domain_name" : "paas_apm_z004xxxxx_xx",
     "agency_name" : "test20210325",
     "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
     "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
     "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
   },
   "log_transfer_detail" : {
     "dis_id" : "xxxxx",
     "dis_name" : "xxxxxx",
     "tags" : [ ]
   },
   "log_transfer_mode" : "cycle",
   "log_transfer_status" : "ENABLE",
   "log_transfer_type" : "OBS"
 }
}
```


- The following parameters are returned for a DMS transfer task:


```
{
 "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
 "log_group_name" : "lts-group-kafka",
 "log_streams" : [ {
   "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
   "log_stream_name" : "lts-topic-kafka"
 } ],
 "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
 "log_transfer_info" : {
   "log_create_time" : 1634802241847,
   "log_storage_format" : "JSON",
   "log_agency_transfer" : {
     "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
     "agency_domain_name" : "paas_apm_z004xxxxx_xx",
     "agency_name" : "test20210325",
     "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
     "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
     "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
   },
   "log_transfer_detail" : {
     "kafka_id" : "xxxxxx",
     "kafka_topic" : "xxxxx",
     "tags" : [ ]
   },
   "log_transfer_mode" : "cycle",
   "log_transfer_status" : "ENABLE",
   "log_transfer_type" : "OBS"
```



```
    }
  }
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "The Field transfer id is invalid or missing."
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	The transfer task is updated.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.6.5 Querying a Log Transfer Task

Function

This API is used to query an OBS, DIS, or DMS transfer task.

URI

GET /v2/{project_id}/transfers

Table 4-305 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-306 Query Parameters

Parameter	Mandatory	Type	Description
log_transfer_type	No	String	Log transfer type. You can transfer logs to OBS, DIS, and DMS.
log_group_name	No	String	Log group name. Minimum: **1** Maximum: **64**
log_stream_name	No	String	Log stream name. Minimum: **1** Maximum: **64**
offset	No	Integer	Query cursor. Set the value to 0 in the first query. In subsequent queries, obtain the value from the response to the last request. Minimum: **0** Maximum: **1024**
limit	No	Integer	Number of records on each page. The maximum value is 100. Minimum: **0** Maximum: **100**

Request Parameters

Table 4-307 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-308 Response body parameters

Parameter	Type	Description
log_transfers	Array of **CreateTransferResponseBody** objects	Log transfer task information.

Table 4-309 CreateTransferResponseBody

Parameter	Type	Description
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
log_streams	Array of **log_streams** objects	Log stream list.
log_transfer_id	String	Log transfer task ID.
log_transfer_info	**log_transfer_info_RespBody** object	Log transfer information.

Table 4-310 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.

Table 4-311 log_transfer_info_RespBody

Parameter	Type	Description
log_agency_transfer	**log_agency_transfer** object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Integer	Time when the log transfer task was created.
log_storage_format	String	Log transfer format. The value can be **RAW** or **JSON**. **RAW** indicates the raw log format, and **JSON** indicates the JSON format. **JSON** and **RAW** are supported for OBS and DIS transfer tasks, but only **RAW** is supported for DMS transfer tasks.
log_transfer_detail	**TransferDetail** object	Log transfer details.
log_transfer_mode	String	Log transfer mode. **cycle** indicates periodical transfer, and **realTime** indicates real-time transfer. **cycle** is available to OBS transfer tasks and **realTime** is available to DIS and DMS transfer tasks.
log_transfer_status	String	Log transfer status. **ENABLE** indicates that log transfer is enabled, **DISABLE** indicates that log transfer is disabled, and **EXCEPTION** indicates that log transfer is abnormal.
log_transfer_type	String	Log transfer type. You can transfer logs to OBS, DIS, and DMS.

Table 4-312 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID.

Parameter	Type	Description
agency_domain_name	String	Delegator account name.
agency_name	String	Name of the agency created by the delegator.
agency_project_id	String	Project ID of the delegator.
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task).
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task).

Table 4-313 TransferDetail

Parameter	Type	Description
obs_period	Integer	Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_period_unit	String	Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of **obs_period** and **obs_period_unit**, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.
obs_bucket_name	String	OBS bucket name. This parameter is required when you create an OBS transfer task.
obs_encrypted_id	String	KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.

Parameter	Type	Description
obs_dir_pre_fix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)*(/)?$
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: ^[a-zA-Z0-9._-]*$
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, **obs_time_zone_id** must also be specified.
obs_time_zone_id	String	ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, **obs_time_zone** must also be specified.
dis_id	String	DIS stream ID. This parameter is required when you create a DIS transfer task.
dis_name	String	DIS stream name. This parameter is required when you create a DIS transfer task.
kafka_id	String	Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
kafka_topic	String	Kafka topic of a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."
obs_transfer_path	String	OBS bucket path, which is the log transfer destination.

Parameter	Type	Description
obs_eps_id	String	Enterprise project ID of an OBS transfer task.
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled.
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: **hostIP**, **hostId**, **hostName**, **pathFile**, and **collectTime**. The common fields include **logStreamName**, **regionName**, **logGroupName** and **projectId**, which are optional. The transfer tag **streamTag** is optional.

Status code: 400

Table 4-314 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-315 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

If no parameter is specified, all log transfer tasks are returned. If log_transfer_type, log_group_name, and log_stream_name are specified, the corresponding log transfer task is returned.

```
GET https://{endpoint}/v2/{project_id}/transfers

/v2/{project_id}/transfers /v2/{project_id}/transfers?log_group_name=lts-group-txxx /v2/{project_id}/transfers?log_transfer_type=OBS /v2/{project_id}/transfers?log_stream_name=lts-topic-testRexxx /v2/{project_id}/transfers?log_group_name=lts-group-txxx&log_transfer_type=OBS /v2/{project_id}/transfers?
```



```
log_group_name=lts-group-txxx&log_stream_name=lts-topic-testRxxx /v2/{project_id}/transfers?
log_transfer_type=OBS&log_stream_name=lts-topic-testRxxx /v2/{project_id}/transfers?log_group_name=lts-
group-txxx&log_transfer_type=OBS&log_stream_name=lts-topic-testRexxx
```

Example Responses

Status code: 200

The query is successful.

- The following parameters are returned for an OBS transfer task:

```
{
  "log_transfers" : [ {
    "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
    "log_group_name" : "lts-group-kafka",
    "log_streams" : [ {
      "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
      "log_stream_name" : "lts-topic-kafka"
    } ],
    "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
    "log_transfer_info" : {
      "log_create_time" : 1634802241847,
      "log_storage_format" : "JSON",
      "log_agency_transfer" : {
        "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
        "agency_domain_name" : "paas_apm_z004xxxxx_xx",
        "agency_name" : "test20210325",
        "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
        "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
        "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
      },
      "log_transfer_detail" : {
        "obs_period" : 2,
        "obs_prefix_name" : "",
        "obs_period_unit" : "min",
        "obs_transfer_path" : "/0002/LogTanks/xxx/",
        "obs_bucket_name" : "0002",
        "obs_encrypted_enable" : false,
        "obs_dir_pre_fix_name" : "",
        "obs_time_zone" : "UTC+01:00",
        "obs_time_zone_id" : "Africa/Lagos"
      },
      "log_transfer_mode" : "cycle",
      "log_transfer_status" : "ENABLE",
      "log_transfer_type" : "OBS"
    }
  } ]
}
```

- The following parameters are returned for a DIS transfer task:

```
{
  "log_transfers" : [ {
    "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
    "log_group_name" : "lts-group-kafka",
    "log_streams" : [ {
      "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
      "log_stream_name" : "lts-topic-kafka"
    } ],
    "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
    "log_transfer_info" : {
      "log_create_time" : 1634802241847,
      "log_storage_format" : "JSON",
      "log_agency_transfer" : {
        "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
        "agency_domain_name" : "paas_apm_z004xxxxx_xx",
        "agency_name" : "test20210325",
        "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
        "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
```



```
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "dis_id" : "xxxxx",
      "dis_name" : "xxxxxx"
    },
    "log_transfer_mode" : "cycle",
    "log_transfer_status" : "ENABLE",
    "log_transfer_type" : "OBS"
  }
 } ]
}
```


- The following parameters are returned for a DMS transfer task:


```
{
 "log_transfers" : [ {
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "kafka_id" : "xxxxxx",
      "kafka_topic" : "xxxxx"
    },
    "log_transfer_mode" : "cycle",
    "log_transfer_status" : "ENABLE",
    "log_transfer_type" : "OBS"
  }
 } ]
}
```


Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
 "error_code" : "LTS.0001",
 "error_msg" : "Invalid log transfer type"
}
```


Status code: 500

The server has received the request but encountered an internal error.


```
{
 "error_code" : "LTS.0010",
 "error_msg" : "The system encountered an internal error"
}
```


Status Codes

Status Code	Description
200	The query is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.7 Log Collection Beyond Free Quota

4.7.1 Disabling Log Collection Beyond Free Quota

Function

This API is used to configure log collection to stop when the free quota runs out.

URI

POST /v2/{project_id}/collection/disable

Table 4-316 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-317 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 403

Table 4-318 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-319 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Disabling log collection beyond free quota

```
POST https://{endpoint}/v2/{project_id}/collection/disable

/v2/{project_id}/collection/disable
```


Example Responses

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

Failed to change the setting of log collection beyond the free quota.

```
{
  "error_code" : "LTS.0210",
  "error_msg" : "Update continue Collection Status error."
}
```

Status Codes

Status Code	Description
200	The request is successful.
403	Forbidden.The request has been 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.
500	Failed to change the setting of log collection beyond the free quota.

Error Codes

See **Error Codes**.

4.7.2 Enabling Log Collection Beyond Free Quota

Function

This API is used to configure log collection to continue when the free quota runs out.

URI

POST /v2/{project_id}/collection/enable

Table 4-320 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-321 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 403

Table 4-322 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-323 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Enabling log collection beyond free quota

```
POST https://{endpoint}/v2/{project_id}/collection/enable

/v2/{project_id}/collection/enable
```

Example Responses

Status code: 403

Forbidden. The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

Failed to change the setting of log collection beyond the free quota.

```
{
  "error_code" : "LTS.0210",
  "error_msg" : "Update continue Collection Status error."
}
```

Status Codes

Status Code	Description
200	The request is successful.
403	Forbidden. The request has been 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.
500	Failed to change the setting of log collection beyond the free quota.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See **Error Codes**.

4.8 Cloud Structuring

4.8.1 Creating Structuring Configurations (Recommended)

Function

This API is used to create structuring configurations using a structuring template, which facilitates parameter extraction and simplifies the parameter structure.

A user can call this API only once per second.

URI

POST /v3/{project_id}/lts/struct/template

Table 4-324 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-325 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-326 Request body parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
log_stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
template_id	Yes	String	Template ID. When the system template is used, the current attribute can be empty. Minimum: **0** Maximum: **36**
template_name	Yes	String	Template name, which cannot be empty and will be verified. Minimum: **1** Maximum: **64**
template_type	Yes	String	Type of the template. The value can be **built_in** (system templates) or **custom** (custom templates). For details about system template types, see section "Log Search and Analysis" > "Cloud Structuring Parsing" > "Structuring Templates" in the LTS User Guide.
demo_fields	No	Array of **FieldModel** objects	Example field array. You only need to enter the fields whose status is different from that of **is_analysis** in the template.
tag_fields	No	Array of **FieldModel** objects	Tag field array. You only need to enter the fields whose status is different from that of **is_analysis** in the template.

Parameter	Mandatory	Type	Description
quick_analysis	No	Boolean	Indicates whether to enable quick analysis for **demo_fields** and **tag_fields**. If this parameter is set to **true**, quick analysis is enabled for all fields. If this parameter is left blank or set to **false**, **is_analysis** in the template is used to determine whether to enable quick analysis.

Table 4-327 FieldModel

Parameter	Mandatory	Type	Description
field_name	Yes	String	Field name. A log event can be split into multiple fields with customizable names. Minimum: **1** Maximum: **64**
is_analysis	No	Boolean	Whether quick analysis is enabled.

Response Parameters

Status code: 201

Table 4-328 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 400

Table 4-329 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-330 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Creating an ELB system template

```
POST https://{endpoint}/v3/{project_id}/lts/struct/template

{
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
  "demo_fields" : [ {
    "field_name" : "msec",
    "is_analysis" : false
  }, {
    "field_name" : "access_log_topic_id",
    "is_analysis" : false
  }, {
    "field_name" : "time_iso8601",
    "is_analysis" : false
  }, {
    "field_name" : "log_ver",
    "is_analysis" : true
  }, {
    "field_name" : "remote_addr",
    "is_analysis" : true
  }, {
    "field_name" : "remote_port",
    "is_analysis" : false
  }, {
    "field_name" : "status",
    "is_analysis" : false
  }, {
    "field_name" : "request_method",
    "is_analysis" : false
  }, {
    "field_name" : "scheme",
    "is_analysis" : true
  }, {
    "field_name" : "host",
    "is_analysis" : true
  }, {
    "field_name" : "router_request_uri",
    "is_analysis" : true
  }, {
    "field_name" : "server_protocol",
    "is_analysis" : true
  }, {
    "field_name" : "request_length",
    "is_analysis" : true
  }, {
    "field_name" : "bytes_sent",
    "is_analysis" : false
  }, {
    "field_name" : "body_bytes_sent",
    "is_analysis" : false
  }, {
```



```
  "field_name" : "request_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_status",
  "is_analysis" : false
}, {
  "field_name" : "upstream_connect_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_header_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_response_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_addr",
  "is_analysis" : false
}, {
  "field_name" : "http_user_agent",
  "is_analysis" : false
}, {
  "field_name" : "http_referer",
  "is_analysis" : false
}, {
  "field_name" : "http_x_forwarded_for",
  "is_analysis" : false
}, {
  "field_name" : "lb_name",
  "is_analysis" : false
}, {
  "field_name" : "listener_name",
  "is_analysis" : false
}, {
  "field_name" : "listener_id",
  "is_analysis" : false
}, {
  "field_name" : "pool_name",
  "is_analysis" : false
}, {
  "field_name" : "member_name",
  "is_analysis" : false
}, {
  "field_name" : "tenant_id",
  "is_analysis" : false
}, {
  "field_name" : "eip_address",
  "is_analysis" : false
}, {
  "field_name" : "eip_port",
  "is_analysis" : false
}, {
  "field_name" : "upstream_addr_priv",
  "is_analysis" : false
}, {
  "field_name" : "certificate_id",
  "is_analysis" : false
}, {
  "field_name" : "ssl_protocol",
  "is_analysis" : false
}, {
  "field_name" : "ssl_cipher",
  "is_analysis" : false
}, {
  "field_name" : "sni_domain_name",
  "is_analysis" : false
}, {
  "field_name" : "tcpinfo_rtt",
  "is_analysis" : false
} ],
```



```
 "tag_fields" : [ {
   "field_name" : "hostIP",
   "is_analysis" : true
 } ],
 "template_type" : "built_in",
 "template_name" : "ELB",
 "template_id" : "",
 "quick_analysis" : false
}
```

- Creating a VPC system template

```
POST https://{endpoint}/v3/{project_id}/lts/struct/template

{
 "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
 "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
 "demo_fields" : [ {
   "field_name" : "version",
   "is_analysis" : false
 }, {
   "field_name" : "project_id",
   "is_analysis" : true
 }, {
   "field_name" : "interface_id",
   "is_analysis" : false
 }, {
   "field_name" : "srcaddr",
   "is_analysis" : true
 }, {
   "field_name" : "dstaddr",
   "is_analysis" : true
 }, {
   "field_name" : "srcport",
   "is_analysis" : false
 }, {
   "field_name" : "dstport",
   "is_analysis" : false
 }, {
   "field_name" : "protocol",
   "is_analysis" : false
 }, {
   "field_name" : "packets",
   "is_analysis" : false
 }, {
   "field_name" : "bytes",
   "is_analysis" : false
 }, {
   "field_name" : "start",
   "is_analysis" : false
 }, {
   "field_name" : "end",
   "is_analysis" : false
 }, {
   "field_name" : "action",
   "is_analysis" : true
 }, {
   "field_name" : "log_status",
   "is_analysis" : true
 } ],
 "tag_fields" : [ {
   "field_name" : "hostIP",
   "is_analysis" : true
 } ],
 "template_type" : "built_in",
 "template_name" : "VPC",
 "template_id" : "",
 "quick_analysis" : false
}
```


Example Responses

Status code: 201

The request is successful.

```
none
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "template_id is invalid!"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "Failed to create struct config."
}
```

Status Codes

Status Code	Description
201	The request is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.8.2 Modifying Structuring Configurations (Recommended)

Function

This API is used to modify structuring configurations using a structuring template.

URI

PUT /v3/{project_id}/lts/struct/template

Table 4-331 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-332 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-333 Request body parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Parameter	Mandatory	Type	Description
log_stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**
template_id	Yes	String	Template ID. When the system template is used, the current attribute can be empty. Minimum: **0** Maximum: **36**
template_name	Yes	String	Template name, which cannot be empty and will be verified. Minimum: **1** Maximum: **64**
template_type	Yes	String	Type of the template. The value can be **built_in** (system templates) or **custom** (custom templates). For details about system template types, see section "Log Search and Analysis" > "Cloud Structuring Parsing" > "Structuring Templates" in the LTS User Guide.
demo_fields	No	Array of **FieldModel** objects	Example field array. You only need to enter the fields whose status is different from that of **is_analysis** in the template.
tag_fields	No	Array of **FieldModel** objects	Tag field array. You only need to enter the fields whose status is different from that of **is_analysis** in the template.
quick_analysis	No	Boolean	Indicates whether to enable quick analysis for **demo_fields** and **tag_fields**. If this parameter is set to **true**, quick analysis is enabled for all fields. If this parameter is left blank or set to **false**, **is_analysis** in the template is used to determine whether to enable quick analysis.

Table 4-334 FieldModel

Parameter	Mandatory	Type	Description
field_name	Yes	String	Field name. A log event can be split into multiple fields with customizable names. Minimum: **1** Maximum: **64**
is_analysis	No	Boolean	Whether quick analysis is enabled.

Response Parameters

Status code: 201

Table 4-335 Response body parameters

Parameter	Type	Description
-	String	

Status code: 400

Table 4-336 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-337 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Modifying an ELB system template

```
PUT https://{endpoint}/v3/{project_id}/lts/struct/template

{
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
  "demo_fields" : [ {
    "field_name" : "msec",
    "is_analysis" : false
  }, {
    "field_name" : "access_log_topic_id",
    "is_analysis" : false
  }, {
    "field_name" : "time_iso8601",
    "is_analysis" : false
  }, {
    "field_name" : "log_ver",
    "is_analysis" : true
  }, {
    "field_name" : "remote_addr",
    "is_analysis" : true
  }, {
    "field_name" : "remote_port",
    "is_analysis" : false
  }, {
    "field_name" : "status",
    "is_analysis" : false
  }, {
    "field_name" : "request_method",
    "is_analysis" : false
  }, {
    "field_name" : "scheme",
    "is_analysis" : true
  }, {
    "field_name" : "host",
    "is_analysis" : true
  }, {
    "field_name" : "router_request_uri",
    "is_analysis" : true
  }, {
    "field_name" : "server_protocol",
    "is_analysis" : true
  }, {
    "field_name" : "request_length",
    "is_analysis" : true
  }, {
    "field_name" : "bytes_sent",
    "is_analysis" : false
  }, {
    "field_name" : "body_bytes_sent",
    "is_analysis" : false
  }, {
    "field_name" : "request_time",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_status",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_connect_time",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_header_time",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_response_time",
    "is_analysis" : false
  }, {
```



```
    "field_name" : "upstream_addr",
    "is_analysis" : false
  }, {
    "field_name" : "http_user_agent",
    "is_analysis" : false
  }, {
    "field_name" : "http_referer",
    "is_analysis" : false
  }, {
    "field_name" : "http_x_forwarded_for",
    "is_analysis" : false
  }, {
    "field_name" : "lb_name",
    "is_analysis" : false
  }, {
    "field_name" : "listener_name",
    "is_analysis" : false
  }, {
    "field_name" : "listener_id",
    "is_analysis" : false
  }, {
    "field_name" : "pool_name",
    "is_analysis" : false
  }, {
    "field_name" : "member_name",
    "is_analysis" : false
  }, {
    "field_name" : "tenant_id",
    "is_analysis" : false
  }, {
    "field_name" : "eip_address",
    "is_analysis" : false
  }, {
    "field_name" : "eip_port",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_addr_priv",
    "is_analysis" : false
  }, {
    "field_name" : "certificate_id",
    "is_analysis" : false
  }, {
    "field_name" : "ssl_protocol",
    "is_analysis" : false
  }, {
    "field_name" : "ssl_cipher",
    "is_analysis" : false
  }, {
    "field_name" : "sni_domain_name",
    "is_analysis" : false
  }, {
    "field_name" : "tcpinfo_rtt",
    "is_analysis" : false
  } ],
  "tag_fields" : [ {
    "field_name" : "hostIP",
    "is_analysis" : true
  } ],
  "template_type" : "built_in",
  "template_name" : "ELB",
  "template_id" : "",
  "quick_analysis" : false
}
```

- Modifying a VPC system template

```
https://{endpoint}/v3/{project_id}/lts/struct/template

{
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
```



```
"demo_fields" : [ {
  "field_name" : "version"
}, {
  "field_name" : "project_id"
}, {
  "field_name" : "interface_id"
}, {
  "field_name" : "srcaddr"
}, {
  "field_name" : "dstaddr"
}, {
  "field_name" : "srcport"
}, {
  "field_name" : "dstport"
}, {
  "field_name" : "protocol"
}, {
  "field_name" : "packets"
}, {
  "field_name" : "bytes"
}, {
  "field_name" : "start"
}, {
  "field_name" : "end"
}, {
  "field_name" : "action"
}, {
  "field_name" : "log_status"
} ],
"tag_fields" : [ {
  "field_name" : "hostIP",
  "is_analysis" : true
} ],
"template_type" : "built_in",
"template_name" : "VPC",
"template_id" : "",
"quick_analysis" : false
}
```

Example Responses

Status code: 201

The request is successful.

```
None
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "Failed to create struct config."
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2016",
  "error_msg" : "Failed to update struct config"
}
```


Status Codes

Status Code	Description
201	The request is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.8.3 Deleting a Structuring Rule

Function

This API is used to delete a structuring rule of a log stream.

URI

DELETE /v2/{project_id}/lts/struct/template

Table 4-338 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-339 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-340 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Structuring rule ID. Minimum: **106** Maximum: **106**

Response Parameters

Status code: 200

Table 4-341 Response body parameters

Parameter	Type	Description
error_code	String	SVCSTG.ALS.200200
error_msg	String	delete struct config successfully

Status code: 400

Table 4-342 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 401

Table 4-343 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-344 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-345 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Deleting the structuring rule of the current ID

```
DELETE https://{endpoint}/v2/{project_id}/lts/struct/template

/v2/{project_id}/lts/struct/template
{
  "id": "2a473356cca5487f8373be891bffc1cf_8a75b77d-7d72-4d7e-8c50-
a24562cf8b0b_fd5e1a7c-7412-475d-a013-8891d539574e"
}
```

Example Responses

Status code: 200

The structuring rule is deleted.

```
{
  "id" : "xxxxxx"
}
```

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "errorCode" : "LTS.0612",
  "errorMessage" : "timee fieldType is error"
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	The structuring rule is deleted.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.

Status Code	Description
500	InternalServerError. The server has received the request but encountered an internal error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See **Error Codes**.

4.8.4 Querying a Structuring Rule

Function

This API is used to query the structuring rule of a specified log stream.

URI

GET /v2/{project_id}/lts/struct/template

Table 4-346 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-347 Query Parameters

Parameter	Mandatory	Type	Description
logGroupId	Yes	String	Log group ID. For details about how to obtain a log group ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Parameter	Mandatory	Type	Description
logStreamId	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-348 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-349 Response body parameters

Parameter	Type	Description
demoFields	Array of **StructFieldInfoReturn** objects	Structured field.
tagFields	Array of **tag_fields_info** objects	Keyword details.
demoLog	String	Sample log event.
demoLabel	String	Attributes of the sample log event.

Parameter	Type	Description
id	String	Structuring rule ID.
logGroupId	String	Log group ID.
rule	**ShowStructTemplateRule** object	Structuring method.
cluster_info	**ShowStructTemplateclusterInfo** object	Kafka information.
logStreamId	String	Log stream ID.
projectId	String	Project ID.
templateName	String	Template name.
regex	String	Regular expression.

Table 4-350 StructFieldInfoReturn

Parameter	Type	Description
fieldName	String	Field name.
type	String	Field data type.
content	String	Field content.
isAnalysis	Boolean	Whether parsing is enabled.
index	Integer	Field sequence number.

Table 4-351 tag_fields_info

Parameter	Type	Description
fieldName	String	Field name.
type	String	Field type.
content	String	Content.
isAnalysis	Boolean	Whether parsing is enabled.
index	Integer	Field sequence number.

Table 4-352 ShowStructTemplateRule

Parameter	Type	Description
param	String	Structuring parameter.
type	String	Structuring type.

Table 4-353 ShowStructTemplateclusterInfo

Parameter	Type	Description
cluster_name	String	Kafka cluster name.
kafka_bootstrap_servers	String	Kafka cluster server address.
kafka_ssl_enable	Boolean	Whether SSL encrypted authentication is enabled for Kafka.

Status code: 400

Table 4-354 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-355 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403

Table 4-356 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-357 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
GET https://{endpoint}/v2/{project_id}/lts/struct/template?logGroupId=123456&logStreamId=654321
```

Example Responses

Status code: 200

Details of the structuring rule are returned.

```
{
  "demoFields" : [ {
    "content" : "100.19.10.178",
    "fieldName" : "authority",
    "index" : 0,
    "isAnalysis" : true,
    "type" : "string"
  }, {
    "content" : "0",
    "fieldName" : "bytes_received",
    "index" : 0,
    "isAnalysis" : true,
    "type" : "string"
  }, {
    "content" : "1127",
    "fieldName" : "bytes_sent",
    "index" : 0,
    "isAnalysis" : true,
    "type" : "string"
  } ]
}
```

Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "errorCode" : "SVCSTG.ALS.200201",
  "errorMessage" : "Query Param is error."
}
```

Status code: 401

AuthFailed. Authentication failed. Check the token and try again.


```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

Status code: 403

Forbidden.The request has been 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.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Query empty."
}
```

Status Codes

Status Code	Description
200	Details of the structuring rule are returned.
400	BadRequest. The request is invalid. Modify the request based on the description in **error_msg** before a retry.
401	AuthFailed. Authentication failed. Check the token and try again.
403	Forbidden.The request has been 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.
500	InternalServerError. The server has received the request but encountered an internal error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See **Error Codes**.

4.8.5 Querying the Brief List of Structuring Templates

Function

This API is used to query the brief list of structuring templates.

URI

GET /v3/{project_id}/lts/struct/customtemplate/list

Table 4-358 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-359 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-360 Response body parameters

Parameter	Type	Description
results	Array of **BriefStructTemplateModel** objects	Brief list of structuring templates.

Table 4-361 BriefStructTemplateModel

Parameter	Type	Description
create_time	Long	Template creation/update time.
id	String	Template ID.
template_name	String	Template name.
template_type	String	Structuring type. Currently, regular expression, JSON, delimiters, and Nginx are supported.
project_id	String	Project ID.

Status code: 400

Table 4-362 Response body parameters

Parameter	Type	Description
message	**CustomTemplateErrorCode** object	Request error message.

Table 4-363 CustomTemplateErrorCode

Parameter	Type	Description
code	String	LTS error code.
details	String	Error message.

Status code: 500

Table 4-364 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Obtaining the Brief List of Structuring Templates of the Current Tenant

```
GET https://{endpoint}/v3/{project_id}/lts/struct/customtemplate/list

/v3/{project_id}/lts/struct/customtemplate/list
```


Example Responses

Status code: 200

The request is successful.

```
{
  "results" : [ {
    "create_time" : 1632897983441,
    "id" : "47629e46-287d-478c-8888-xxxxxxxxxxxx",
    "template_name" : "jsonTemplate",
    "template_type" : "json",
    "project_id" : "2a473356cca5487f8373be89xxxxxxxx"
  } ]
}
```

Status code: 400

Custom log template operation failed.

```
{
  "message" : {
    "code" : "LTS.0757",
    "details" : "Log custom template operation failed"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2017",
  "error_msg" : "Find struct template failed."
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	Custom log template operation failed.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.8.6 Querying a Structuring Template

Function

This API is used to query a structuring template.

Note:

A user can call this API for up to 50 times per second.

URI

GET /v3/{project_id}/lts/struct/customtemplate

Table 4-365 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-366 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	ID of the template to be queried. This parameter is optional. If this parameter is not specified, all custom structuring templates used in the project are returned. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-367 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-368 Response body parameters

Parameter	Type	Description
results	Array of **StructTemplateModel** objects	Array of queried customized structuring templates.

Table 4-369 StructTemplateModel

Parameter	Type	Description
project_id	String	Project ID.
template_name	String	Template name.
template_type	String	Template type. The options are regular expression, JSON, delimiter, and Nginx.
demo_log	String	Sample log event.
demo_fields	Array of **DemoField** objects	Example field array.
tag_fields	Array of **TagFieldNew** objects	Tag field array.
rule	**TemplateRule** object	Structuring rule object.
demo_label	String	Example log tag.
create_time	Long	Creation time.
id	String	Template ID.

Table 4-370 DemoField

Parameter	Type	Description
field_name	String	Field name.
content	String	Example field content, which is the example value of a field.
type	String	Field data type. Value: **string**, **long**, or **float**
is_analysis	Boolean	Whether to enable quick analysis.
index	Integer	Field number in manual regular expression and delimiter modes.
relation	String	Describes the hierarchical relationship between fields in a multi-level JSON file.
user_defined_name	String	Custom field alias in JSON and Nginx modes.

Table 4-371 TagFieldNew

Parameter	Type	Description
field_name	String	Field name.
content	String	Example field content, which is the example value of a field.
type	String	Field data type. Value: **string**, **long**, or **float**
is_analysis	Boolean	Whether to enable quick analysis.
index	Integer	Sequence number (starting from 0).

Table 4-372 TemplateRule

Parameter	Type	Description
type	String	Structuring type. Currently, regular expression, JSON, delimiters, and Nginx are supported.

Parameter	Type	Description
param	String	Specific structuring rule. Each structuring type has a unique structure: A manual regular expression is a JSON string that contains the **keyObject** and **regex_rules** objects. **keyObject** contains key-value pairs, where a key indicates the index of an element in the **demo_fields** array, and a value indicates **field_name**. **regex_rules** is a regular expression. Example: {\"keyObject\":{\"1\":\"date\",\"2\":\"num\"},\"regex_rules\":\"^(?<date>[^/]+)(?:[^]*){8}(?<num>\\\\d+)\"} In JSON mode, **param** is a JSON string that contains the **keyObject** and **layers** objects. **keyObject** contains key-value pairs, where a key indicates the **field_name** of an element in the **demo_fields** array, and a value indicates **user_defined_name**. **layers** indicates the maximum number of parsing layers. Its maximum value is 4. Example: {\"keyObject\":{\"metadata.dimension\":\"dimension\",\"metadata.value\":\"\",\"metadata.unit\":\"\",\"collectionTime\":\"\"},\"layers\":3} The delimiter mode uses a JSON string that contains the **keyObject** and **tokenizer** objects. **keyObject** contains key-value pairs, where a key indicates the index of an element in the **demo_fields** array, and a value indicates **field_name**. **tokenizer** indicates delimiters. Example: {\"keyObject\":{\"0\":\"field1\",\"1\":\"field2\",\"2\":\"field3\",\"3\":\"field4\",\"4\":\"field5\",\"5\":\"field6\",\"6\":\"field7\",\"7\":\"field8\",\"8\":\"field9\"},\"tokenizer\":\"\"} The Nginx mode uses a JSON string that contains the **keyObject**, **regex**, **field_names**, and **log_format** objects. **keyObject** contains key-value pairs, where a key indicates the **field_name** of an element in the **demo_fields** array, and a value indicates **user_defined_name**. **regex** is a regular expression, where the **field_names** object is the combination of **field_name** of each element in the

Parameter	Type	Description
		demo_fields array. **field_names** are separated by commas (,). The **log_format** object indicates the Nginx log formatting mode. Example: {\"keyObject\": { \"http_host\": \"host \", \"remote_addr\": \"\", \"request_method\": \"\", \"request_uri\": \"\", \"time_local\": \"\" }, \"regex\": \"(\\\\d+/\\\\S+/\\\\d+:\\\\d+:\\\\d+:\\\\d+)\\\\s+\\\\S+\\\\s+(\\\\S*)\\\\s+(\\\\S*)\\\\s+(\\\\S*)\\\\s+\\\\([^\\\\]*)\\\".*\", \"fieldNames\": \"time_local,remote_addr,request_method,http_host,request_uri\", \"log_format\": \"log_format '$upstreaminfo '$time_local $remote_addr $request_method $http_host\\\\\"$request_uri\\\\\"';\" }

Status code: 400

Table 4-373 Response body parameters

Parameter	Type	Description
message	**CustomTemplateErrorCode** object	Request error message.

Table 4-374 CustomTemplateErrorCode

Parameter	Type	Description
code	String	LTS error code.
details	String	Error message.

Status code: 500

Table 4-375 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying Details About the Current Structuring Template


```
GET https://{endpoint}/v3/{project_id}/lts/struct/customtemplate?id=bc8e3f2c-87fe-4acd-8439-69cdf29251c1

/v3/{project_id}/lts/struct/customtemplate?id=bc8e3f2c-87fe-4acd-8439-69cdf29251c1
```

Example Responses

Status code: 200

The request is successful.


```
{
  "results" : [ {
    "create_time" : 1641258099551,
    "demo_fields" : [ {
      "content" : "2022-01-03/14:52:28",
      "field_name" : "field1",
      "index" : 0,
      "is_analysis" : true,
      "type" : "string"
    }, {
      "content" : "this",
      "field_name" : "field2",
      "index" : 1,
      "is_analysis" : true,
      "type" : "string"
    }, {
      "content" : "log",
      "field_name" : "field3",
      "index" : 2,
      "is_analysis" : false,
      "type" : "string"
    }, {
      "content" : "is",
      "field_name" : "field4",
      "index" : 3,
      "is_analysis" : false,
      "type" : "string"
    }, {
      "content" : "Error",
      "field_name" : "field5",
      "index" : 4,
      "is_analysis" : false,
      "type" : "string"
    }, {
      "content" : "NO",
      "field_name" : "field6",
      "index" : 5,
      "is_analysis" : false,
      "type" : "string"
    }, {
      "content" : "13 testing.",
      "field_name" : "field7",
      "index" : 6,
      "is_analysis" : false,
      "type" : "string"
    }, {
      "content" : "286",
      "field_name" : "field8",
      "index" : 7,
      "is_analysis" : false,
      "type" : "long"
    } ],
    "demo_log" : "2022-01-03/14:52:28 this log is Error NO 13 testing 286.",
    "id" : "43a8cc7b-b632-4c36-a65d-8150e98219f1",
    "project_id" : "2a473356cca5487f8373be89xxxxxxxx",
    "rule" : {
      "param" : "{\"keyObject\":
{\"0\":\"field1\",\"1\":\"field2\",\"2\":\"field3\",\"3\":\"field4\",\"4\":\"field5\",\"5\":\"field6\",\"6\":\"field7\",\"
7\":\"field8\"},\"tokenizer\":\" \"}",
```



```
    "type" : "split"
  },
  "demo_label" : "here is a demo label",
  "tag_fields" : [ {
    "content" : "172.16.10.69",
    "field_name" : "hostIP",
    "index" : 0,
    "is_analysis" : true,
    "type" : "string"
  } ],
  "template_name" : "testSplit13",
  "template_type" : "split"
 } ]
}
```

Status code: 400

The ID does not exist.

```
{
 "message" : {
  "code" : "LTS.0751",
  "details" : "custom template doesn't exist"
 }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
 "error_code" : "LTS.2017",
 "error_msg" : "Find struct template failed."
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	The ID does not exist.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.9 Alarm Topics

4.9.1 Querying an SMN Topic

Function

This API is used to query an SMN topic.

URI

GET /v2/{project_id}/lts/notifications/topics

Table 4-376 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-377 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Query cursor. Set the value to 0 in the first query. In subsequent queries, obtain the value from the response to the last request. Minimum: **0** Maximum: **1024**
limit	Yes	Integer	Number of records on each page. The maximum value is 100. Minimum: **0** Maximum: **100**
fuzzy_name	No	String	Specifies the name of the topic to be searched for, which is fuzzy match. startwith is used for the fuzzy match.

Request Parameters

Table 4-378 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-379 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of a request.
topic_count	Integer	Number of topics.
topics	Array of **Topics** objects	Topic information.

Table 4-380 Topics

Parameter	Type	Description
name	String	Topic name.
topic_urn	String	Specifies the resource identifier of the topic, which is unique.
display_name	String	Specifies the topic display name, which is presented as the name of the email sender in email messages.
push_policy	Integer	Specifies the message push policy.

Status code: 400

Table 4-381 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-382 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying an SMN topic

```
GET https://{endpoint}/v2/{project_id}/lts/notifications/topics

/v2/{project_id}/lts/notifications/topics?offset={offset}&limit={limit}
```

Example Responses

Status code: 200

The request is successful.

```
{
  "request_id" : "1",
  "topic_count" : 100,
  "topics" : [ {
    "name" : "test",
    "topic_urn" : "urn:smn:xxxx-7:{projectId}:fyy",
    "display_name" : "username",
    "push_policy" : 0
  } ]
}
```

Status code: 400

Insufficient permissions.

```
{
  "error_code" : "LTS.2009",
  "error_msg" : "User must have SMN service authority."
}
```

Status code: 500

The request is successful but the service is abnormal.


```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	Insufficient permissions.
500	The request is successful but the service is abnormal.

Error Codes

See **Error Codes**.

4.10 Message Template Management

4.10.1 Creating a Message Template

Function

This API is used to create a notification template. Currently, each account can create a maximum of 100 notification templates. After a notification template is created, its name cannot be changed.

URI

POST /v2/{project_id}/{domain_id}/lts/events/notification/templates

Table 4-383 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-384 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-385 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Notification rule name, which is mandatory. The value can contain only digits, letters, underscores (_), and hyphens (-), and cannot start or end with special characters such as underscores. The value can contain 1 to 100 characters and cannot be changed after being created. Minimum: **1** Maximum: **100**

Parameter	Mandatory	Type	Description
type	No	Array of strings	Notification method.
desc	No	String	Template description, which is mandatory. The value can contain only digits, letters, and underscores (_), and cannot start or end with an underscore. The value can contain 0 to 1,024 characters. Minimum: **0** Maximum: **1024**
source	Yes	String	Template source. Currently, this parameter must be set to LTS. Otherwise, the template cannot be filtered. Minimum: **3** Maximum: **3**
locale	Yes	String	Language type, for example, **en-us**.
templates	Yes	Array of **SubTemplate** objects	Template body is an array.

Table 4-386 SubTemplate

Parameter	Mandatory	Type	Description
sub_type	Yes	String	Template subtype, for example, **sms** or **email**.

Parameter	Mandatory	Type	Description
content	Yes	String	Sub-template body. A variable following a dollar symbol ($) can only be one of the following variables. The supported variables vary according to alarm types. Currently, the variables supported for keyword alarms are as follows: • Severity: ${event_severity}; • Occurred: ${starts_at}; • Alarm source: $event.metadata.resource_provider; • Resource type: $event.metadata.resource_type; • Resource ID: ${resources}; • Statistical type: by keyword; • Expression: $event.annotations.condition_expression; • Current value: $event.annotations.current_value; • Statistical period: $event.annotations.frequency; • Query time: $event.annotations.results[0].time; • Query log: $event.annotations.results[0].raw_results; **NOTE** Each variable must be followed by an English semicolon (;). Otherwise, the template replacement fails. Minimum: **2** Maximum: **1024**
topic	No	String	Email subject. This parameter is valid only when **sub_type** is set to **email**.

Response Parameters

Status code: 200

Table 4-387 Response body parameters

Parameter	Type	Description
name	String	Notification rule name.
type	Array of strings	Notification method.
desc	String	Template description.
source	String	Template source.
locale	String	Language.
templates	Array of **SubTemplateResBody** objects	Template body, which is an array.

Table 4-388 SubTemplateResBody

Parameter	Type	Description
sub_type	String	Template subtype, for example, **sms** or **email**.
content	String	Sub-template body. A variable following a dollar symbol ($) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL).
topic	String	Email subject. This parameter is valid only when **sub_type** is set to **email**.

Status code: 400

Table 4-389 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-390 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Creating a message template

```
POST https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates

{
  "name" : "alarm-template",
  "desc" : "test",
  "source" : "LTS",
  "locale" : "en-us",
  "templates" : [ {
    "sub_type" : "sms",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;"
  }, {
    "sub_type" : "email",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source: $event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time: $event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;"
  } ]
}
```

Example Responses

Status code: 200

The request is successful.

```
{
  "desc" : "description",
  "locale" : "en-us",
  "name" : "postman-test",
  "source" : "LTS",
  "templates" : [ {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;",
    "sub_type" : "sms"
  }, {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source: $event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time: $event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
    "sub_type" : "email"
  } ]
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
  "error_code" : "LTS.2014",
  "error_msg" : "desc is invalid!"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "Failed to create notification template."
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.10.2 Modifying a Message Template

Function

This API is used to modify a notification template base on its name.

URI

PUT /v2/{project_id}/{domain_id}/lts/events/notification/templates

Table 4-391 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-392 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-393 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Notification rule name, which cannot be changed after the rule is created. Minimum: **1** Maximum: **100**
type	No	Array of strings	Notification method.

Parameter	Mandatory	Type	Description
desc	No	String	Template description, which is mandatory. The value can contain only digits, letters, and underscores (_), and cannot start or end with an underscore. The value can contain 0 to 1,024 characters. Minimum: **0** Maximum: **1024**
source	Yes	String	Template source. Currently, this parameter must be set to LTS. Otherwise, the template cannot be filtered. Minimum: **3** Maximum: **3**
locale	Yes	String	Language. • **en-us**
templates	Yes	Array of **UpdateSubTemplate** objects	Template body, which is an array.

Table 4-394 UpdateSubTemplate

Parameter	Mandatory	Type	Description
sub_type	Yes	String	Template subtype, for example, **sms** or **email**.

Parameter	Mandatory	Type	Description
content	Yes	String	Sub-template body. A variable following a dollar symbol ($) can only be one of the following variables. The supported variables vary according to alarm types. Currently, the variables supported for keyword alarms are as follows: • Severity: ${event_severity}; • Occurred: ${starts_at}; • Alarm source: $event.metadata.resource_provider; • Resource type: $event.metadata.resource_type; • Resource ID: ${resources}; • Statistical type: by keyword; • Expression: $event.annotations.condition_expression; • Current value: $event.annotations.current_value; • Statistical period: $event.annotations.frequency; • Query time: $event.annotations.results[0].time; • Query log: $event.annotations.results[0].raw_results; **NOTE** Each variable must be followed by an English semicolon (;). Otherwise, the template replacement fails.
topic	No	String	Email subject. This parameter is valid only when **sub_type** is set to **email**.

Response Parameters

Status code: 201

Table 4-395 Response body parameters

Parameter	Type	Description
name	String	Notification rule name.
type	Array of strings	Notification method.
desc	String	Template description.
source	String	Template source.
locale	String	Language.
templates	Array of **SubTemplateResBody** objects	Template body, which is an array.

Table 4-396 SubTemplateResBody

Parameter	Type	Description
sub_type	String	Template subtype, for example, **sms** or **email**.
content	String	Sub-template body. A variable following a dollar symbol ($) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL).
topic	String	Email subject. This parameter is valid only when **sub_type** is set to **email**.

Status code: 400

Table 4-397 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-398 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Modifying a message template

```
PUT https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates

{
  "name" : "alarm-template",
  "desc" : "test",
  "source" : "LTS",
  "locale" : "en-us",
  "templates" : [ {
    "sub_type" : "sms",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;"
  }, {
    "sub_type" : "email",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source: $event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time: $event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;"
  } ]
}
```

Example Responses

Status code: 201

The request is successful.

```
{
  "desc" : "description",
  "locale" : "en-us",
  "name" : "postman-test1",
  "source" : "LTS",
  "templates" : [ {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;",
    "sub_type" : "sms"
  }, {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source: $event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time: $event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
    "sub_type" : "email"
  } ]
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
  "error_code" : "LTS.2016",
  "error_msg" : "desc is invalid!"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2016",
  "error_msg" : "Failed to update notification template"
}
```

Status Codes

Status Code	Description
201	The request is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.10.3 Querying Message Templates

Function

This API is used to query the message template list.

URI

GET /v2/{project_id}/{domain_id}/lts/events/notification/templates

Table 4-399 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-400 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-401 Response body parameters

Parameter	Type	Description
results	Array of **NotificationTemplate** objects	Template array.

Table 4-402 NotificationTemplate

Parameter	Type	Description
name	String	Notification rule name.
type	Array of strings	Notification method.
desc	String	Template description.
source	String	Template source.
locale	String	Language.
templates	Array of **SubTemplateResBody** objects	Template body, which is an array.
create_time	Long	Creation time (timestamp in milliseconds).
modify_time	Long	Update time (timestamp in milliseconds).
project_id	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID**.

Table 4-403 SubTemplateResBody

Parameter	Type	Description
sub_type	String	Template subtype, for example, **sms** or **email**.
content	String	Sub-template body. A variable following a dollar symbol ($) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL).
topic	String	Email subject. This parameter is valid only when **sub_type** is set to **email**.

Status code: 500

Table 4-404 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Example Requests

Querying a message template

```
GET https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates

/v2/{project_id}/{domain_id}/lts/events/notification/templates
```

Example Responses

Status code: 200

The request is successful.

```
{
  "results" : [ {
    "create_time" : 1701352010150,
    "desc" : "This is the email test mode.",
    "locale" : "en-us",
    "modify_time" : 1701352010150,
    "name" : "15nWzUsOHA",
    "project_id" : "2a473356cca5487f8373be891bffc1cf",
    "source" : "LTS",
    "templates" : [ {
      "content" : "\"This is an email test template.\"",
      "sub_type" : "email"
    } ],
    "type" : [ "" ]
  }, {
    "create_time" : 1702021411612,
    "desc" : "This is the SMS test mode.",
    "locale" : "en-us",
    "modify_time" : 1702021411612,
    "name" : "RZ2ObeluNN",
    "project_id" : "2a473356cca5487f8373be891bffc1cf",
    "source" : "LTS",
    "templates" : [ {
      "content" : "\"This is an SMS test template.\"",
      "sub_type" : "sms"
    } ],
    "type" : [ "" ]
  } ]
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2017",
  "error_msg" : "Find Alarm rule failed."
}
```


Status Codes

Status Code	Description
200	The request is successful.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.10.4 Deleting a Message Template

Function

This API is used to delete a notification template.

URI

DELETE /v2/{project_id}/{domain_id}/lts/events/notification/templates

Table 4-405 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-406 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-407 Request body parameters

Parameter	Mandatory	Type	Description
template_names	Yes	Array of strings	Array of names of templates to be deleted.

Response Parameters

Status code: 400

Table 4-408 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-409 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Deleting a message template

```
DELETE https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates

/v2/{project_id}/{domain_id}/lts/events/notification/templates
{"template_names":["template1","template2"]}
```

Example Responses

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.2015",
  "error_msg" : "delete template name is empty or projectId is null"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2015",
  "error_msg" : "Failed to delete notification template."
}
```

Status Codes

Status Code	Description
204	If the response body is empty, the request is successfully responded.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.10.5 Querying a Message Template

Function

This API is used to query a notification template.

URI

GET /v2/{project_id}/{domain_id}/lts/events/notification/template/{template_name}

Table 4-410 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
template_name	Yes	String	template_name Minimum: **1** Maximum: **100**

Request Parameters

Table 4-411 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-412 Response body parameters

Parameter	Type	Description
name	String	Notification rule name.
type	Array of strings	Notification method.
desc	String	Template description.
source	String	Template source.
locale	String	Language.
templates	Array of **SubTemplateResBody** objects	Template body, which is an array.
create_time	Long	Creation time (timestamp in milliseconds).
modify_time	Long	Update time (timestamp in milliseconds).
project_id	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID**.

Table 4-413 SubTemplateResBody

Parameter	Type	Description
sub_type	String	Template subtype, for example, **sms** or **email**.
content	String	Sub-template body. A variable following a dollar symbol ($) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL).
topic	String	Email subject. This parameter is valid only when **sub_type** is set to **email**.

Status code: 401

Table 4-414 Response body parameters

Parameter	Type	Description
message	**CodeDetailsRspBody** object	Error message.

Table 4-415 CodeDetailsRspBody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-416 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying a message template with a specified name

```
GET https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/template/{template_name}

/v2/{project_id}/{domain_id}/lts/events/notification/template/{template_name}
```

Example Responses

Status code: 200

The request is successful.

```
{
  "create_time" : 1702955600631,
  "desc" : "description",
  "locale" : "en-us",
  "modify_time" : 1702955600631,
  "name" : "postman-test",
  "project_id" : "2a473356cca5487f8373be891bffc1cf",
  "source" : "LTS",
  "templates" : [ {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;",
    "sub_type" : "sms"
  }, {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source: $event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time: $event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
    "sub_type" : "email"
  } ],
  "type" : [ ]
}
```


Status code: 401

ID verification failed.

```
{
  "message" : {
    "code" : "LTS.0001",
    "details" : "project verify error"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2018",
  "error_msg" : "Failed to get notification template."
}
```

Status Codes

Status Code	Description
200	The request is successful.
401	ID verification failed.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.10.6 Previewing the Email Format of a Message Template

Function

This API is used to preview the email format of a notification template.

URI

POST /v2/{project_id}/{domain_id}/lts/events/notification/templates/view

Table 4-417 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-418 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-419 Request body parameters

Parameter	Mandatory	Type	Description
templates	Yes	String	Email template content. Minimum: **2** Maximum: **1024**

Parameter	Mandatory	Type	Description
language	Yes	String	Language type, for example, **en-us**.
source	Yes	String	Source. The value can only be LTS. Minimum: **3** Maximum: **3**
subject	No	String	The content of this field is rendered to be used as the title of the message template.

Response Parameters

Status code: 200

Table 4-420 Response body parameters

Parameter	Type	Description
template	String	The value is an HTML text and needs to be parsed before being displayed.
subject	String	The title displayed after the field is parsed. It is displayed at the top of the returned HTML text.

Status code: 500

Table 4-421 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Previewing the email format of a message template

```
POST https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates/view

{
  "templates" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source: $event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: ${resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time:
```



```
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
  "language" : "en-us",
  "source" : "LTS",
  "subject" : "${region_name}[${event_severity}_${event_type}_${clear_type}] generated an alarm at $
{starts_at}"
}
```

Example Responses

Status code: 200

The request is successful.

```
{
  "template" : "<style>\n    span {\n        display: inline-block;\n        float: left;\n        font-size: 14px;\n    }
\n\n    b {\n        display: inline-block;\n        float: left;\n        color: #252B3A;\n        font-size: 14px\n    }
\n</style>\n<table border=\"0\" cellpadding=\"0\" cellspacing=\"0\"\n        style=\"font-
family:Helvetica,Arial,PingFangSC-Regular,Hiragino Sans GB;border-spacing:0px 14px;font-size:14px;padding-
left: 30px;line-height:25px;\">\n    <thead>\n    <tr style=\"font-size:14px;\">\n        <td colspan=\"2\" style=
\"line-height:28px;color:#6e6e6e;font-size:14px\">\n            <b>Dear </b>\n            <b>users</b>
\n            <b> , </b>\n        </td>\n    </tr>\n    </thead>\n    <tr>\n        <td colspan=\"2\">
\n            <span>1 notification has been </span>\n            <span>add</span>\n
<span> in region </span>\n                        <span> based on </span>\n
<span>alarm rule </span>\n            <b>action_rule</b>\n            <span>. For more information, go
to the LTS console.</span>\n            <br>\n            <br>\n        </td>\n    </tr>\n\n    <tr style=\"font-
size:14px;\">\n        <td colspan=\"2\">\n            <p style=\"margin-top: -26px;margin-bottom: -20px;\">
\n            <br>\n                <span style=\"color:#252B3A;line-height:24px\">Here are the details.</span>
\n            </p>\n        </td>\n    </tr>\n    <td><div>Severity: Major;<br>Occurred: 2022-03-21 18:23:20
GMT+08:00;<br>Alarm source: N/A;<br>Resource type: N/A;<br>Resource ID: CCE;<br>Statistical type: by
keyword;<br>Expression: N/A;<br>Current value: N/A;<br>Statistical period: N/A;<br>Query time: N/
A;<br>Query log: N/A;<br><div/></td>\n  </table>",
  "subject" : "[Major_alarm_add] generated an alarm at 2022-03-21 18:23:20 GMT+08:00",
  "header" : {
    "dingding" : "![screenshot](https://testhy.obs.{region_name}.com/warningAlarm.png)
\n[Major_alarm_add]have a new alert at 2022-03-21 18:23:20 GMT+08:00"
  }
}
```

Status code: 500

An error is reported when an incorrect domain ID is entered.

```
{
  "error_code" : "LTS.2019",
  "error_msg" : "Failed to preview notification template."
}
```

Status Codes

Status Code	Description
200	The request is successful.
500	An error is reported when an incorrect domain ID is entered.

Error Codes

See **Error Codes**.

4.11 Keyword Alarm Rules

4.11.1 Creating a Keyword Alarm Rule

Function

This API is used to create a keyword alarm. Currently, each account can create a maximum of 200 keyword alarms and SQL alarms.

URI

POST /v2/{project_id}/lts/alarms/keywords-alarm-rule

Table 4-422 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-423 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-424 Request body parameters

Parameter	Mandatory	Type	Description
keywords_alarm_rule_name	Yes	String	Keyword alarm rule names. **NOTE** Cannot start with a period (.) or underscore (_) or end with a period (.). Minimum: **1** Maximum: **64**
keywords_alarm_rule_description	No	String	Keyword alarm description. Minimum: **0** Maximum: **64**
keywords_requests	Yes	Array of **KeywordsRequest** objects	Keyword details.
frequency	Yes	**Frequency** object	Alarm statistical period.
keywords_alarm_level	Yes	String	Alarm severity.
keywords_alarm_send	Yes	Boolean	Whether to send an alarm.
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
trigger_condition_count	No	Integer	Number of times that log events meet the trigger condition. The default value is **1**.
trigger_condition_frequency	No	Integer	Number of queries in which the triggering condition is met. The default value is **1**.
whether_recovery_policy	No	Boolean	Whether to enable the alarm clearance notification. The default value is **false**.

Parameter	Mandatory	Type	Description
recovery_policy	No	Integer	Number of queries in which the triggering condition is not met. The alarm is cleared when this number reaches the value (**3** by default) of this parameter.
notification_frequency	Yes	Integer	Notification frequency, in minutes.
alarm_action_rule_name	No	String	Alarm action rule name. **NOTE** Set **alarm_action_rule_name** or **notification_save_rule**. If you set both of them, the value of **alarm_action_rule_name** is prioritized.
notification_save_rule	No	**SqlNotificationSaveRule** object	Notification topic, which will be unavailable soon. You are advised to use the alarm action rule function.

Table 4-425 KeywordsRequest

Parameter	Mandatory	Type	Description
log_stream_id	Yes	String	Log stream ID.
log_stream_name	No	String	Log stream name.
log_group_id	Yes	String	Log group ID.
log_group_name	No	String	Log group name.
keywords	Yes	String	Keyword.
condition	Yes	String	Condition.
number	Yes	Integer	Keyword threshold, which forms a condition with **keyword** and **condition**. An alarm is triggered when the condition is met.
search_time_range	Yes	Integer	Time range for querying the latest data when a task is executed.
search_time_range_unit	Yes	String	Query time unit.

Table 4-426 Frequency

Parameter	Mandatory	Type	Description
type	Yes	String	Time type.
cron_expr	No	String	Cron expression, which uses the 24-hour format and is precise down to the minute. • 0/10 * * * *: The query starts from 00:00 and is performed every 10 minutes at 00:00, 00:10, 00:20, 00:30, 00:40, 00:50, 01:00, and so on. For example, if the current time is 16:37, the next query is at 16:50. • 0 0/5 * * *: The query starts from 00:00 and is performed every 5 hours at 00:00, 05:00, 10:00, 15:00, 20:00, and so on. For example, if the current time is 16:37, the next query is at 20:00. • 0 14 * * *: The query is performed at 14:00 every day. • 0 0 10 * *: The query is performed at 00:00 on the 10th day of every month.
hour_of_day	No	Integer	This field is used when **type** is set to **DAILY** or **WEEKLY**. **DAILY** ranges from 0 to 23. **WEEKLY** ranges from 0 to 23.
day_of_week	No	Integer	This field is used when **type** is set to **WEEKLY** (from Sunday to Saturday).
fixed_rate	No	Integer	Value of a period. This field is used when **type** is set to **FIXED_RATE**. It is used together with **fixed_rate_unit** to indicate a fixed period.

Parameter	Mandatory	Type	Description
fixed_rate_unit	No	String	Unit of a period. This field is used when **type** is set to **FIXED_RATE**. It is used together with **fixed_rate** to indicate a fixed period. The value can be **hour** or **minute**.

Table 4-427 SqlNotificationSaveRule

Parameter	Mandatory	Type	Description
language	Yes	String	Language of the preference. Minimum: **0** Maximum: **10**
timezone	No	String	Time zone information used in a notification. Example: **+08:00** Minimum: **0** Maximum: **1024**
user_name	Yes	String	Username used in a notification. It is generally displayed in the first line of the greeting. Minimum: **1** Maximum: **1024**
topics	Yes	Array of **Topics** objects	Topic information, which will be unavailable soon. You are advised to use the action rule function.
template_name	Yes	String	Message template name.

Table 4-428 Topics

Parameter	Mandatory	Type	Description
name	Yes	String	Topic name.
topic_urn	Yes	String	Specifies the resource identifier of the topic, which is unique.

Parameter	Mandatory	Type	Description
display_name	No	String	Specifies the topic display name, which is presented as the name of the email sender in email messages.
push_policy	No	Integer	Specifies the message push policy.

Response Parameters

Status code: 200

Table 4-429 Response body parameters

Parameter	Type	Description
keywords_alarm_rule_id	String	Alarm rule ID.

Status code: 400

Table 4-430 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-431 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Creating a keyword alarm rule

```
POST https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule

{
```



```
 "keywords_alarm_rule_name" : "test",
 "keywords_alarm_rule_description" : "test",
 "keywords_requests" : [ {
   "log_stream_id" : "1",
   "log_group_id" : "1",
   "keywords" : "test",
   "condition" : ">",
   "number" : "100",
   "search_time_range" : 10,
   "search_time_range_unit" : "minute"
 } ],
 "frequency" : {
   "type" : "FIXED_RATE",
   "cron_expr" : "",
   "hour_of_day" : 0,
   "day_of_week" : 0,
   "fixed_rate" : 10,
   "fixed_rate_unit" : "minute"
 },
 "keywords_alarm_level" : "Critical",
 "keywords_alarm_send" : true,
 "domain_id" : "",
 "notification_frequency" : 5,
 "alarm_action_rule_name" : "",
 "notification_save_rule" : {
   "language" : "en-us",
   "timezone" : "xx/xx",
   "user_name" : "test",
   "template_name" : "Message template name.",
   "topics" : [ {
     "name" : "test",
     "topic_urn" : "urn:smn:xxxx-7:1b06fc5dc0814a4da1594a9ade9cb93c:test",
     "display_name" : "",
     "push_policy" : 0
   } ]
 }
}
```

Example Responses

Status code: 200

The request is successful.

```
{
 "keywords_alarm_rule_id" : "cf46fce8-f8b5-4aff-85c0-35d0c828ea0c"
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
 "error_code" : "LTS.2005",
 "error_msg" : "Alarm rule params validator error."
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
 "error_code" : "LTS.2001",
 "error_msg" : "Failed to create alarm rule."
}
```


Status Codes

Status Code	Description
200	The request is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.11.2 Modifying a Keyword Alarm Rule

Function

This API is used to modify a keyword alarm.

URI

PUT /v2/{project_id}/lts/alarms/keywords-alarm-rule

Table 4-432 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-433 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-434 Request body parameters

Parameter	Mandatory	Type	Description
keywords_alarm_rule_id	Yes	String	Keyword alarm rule ID. Minimum: **36** Maximum: **36**
keywords_alarm_rule_name	Yes	String	Original rule name, which cannot be changed. Minimum: **1** Maximum: **64**
alarm_rule_alias	No	String	Rule name. Minimum: **1** Maximum: **64**
keywords_alarm_rule_description	No	String	Keyword alarm description. Minimum: **0** Maximum: **64**
keywords_requests	Yes	Array of **KeywordsRequest** objects	Keyword details.
frequency	Yes	**Frequency** object	Alarm statistical period.
keywords_alarm_level	Yes	String	Alarm severity.

Parameter	Mandatory	Type	Description
keywords_alarm_send	Yes	Boolean	Whether to send an alarm.
keywords_alarm_send_code	Yes	Integer	Subject. **0**: unchanged; **1**: added; **2**: modified; **3**: deleted. Minimum: **0** Maximum: **3**
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
notification_save_rule	No	**SqlNotificationSaveRule** object	Notification topic, which will be unavailable soon. You are advised to use the alarm action rule function.
trigger_condition_count	No	Integer	Number of times that log events meet the trigger condition. The default value is **1**.
trigger_condition_frequency	No	Integer	Number of queries in which the triggering condition is met. The default value is **1**.
whether_recovery_policy	No	Boolean	Whether to enable the alarm clearance notification. The default value is **false**.
recovery_policy	No	Integer	Number of queries in which the triggering condition is not met. The alarm is cleared when this number reaches the value (**3** by default) of this parameter.
notification_frequency	Yes	Integer	Notification frequency, in minutes.
alarm_action_rule_name	No	String	Alarm action rule name. **NOTE** Set **alarm_action_rule_name** or **notification_save_rule**. If you set both of them, the value of **alarm_action_rule_name** is prioritized.

Table 4-435 KeywordsRequest

Parameter	Mandatory	Type	Description
log_stream_id	Yes	String	Log stream ID.
log_stream_name	No	String	Log stream name.
log_group_id	Yes	String	Log group ID.
log_group_name	No	String	Log group name.
keywords	Yes	String	Keyword.
condition	Yes	String	Condition.
number	Yes	Integer	Keyword threshold, which forms a condition with **keyword** and **condition**. An alarm is triggered when the condition is met.
search_time_range	Yes	Integer	Time range for querying the latest data when a task is executed.
search_time_range_unit	Yes	String	Query time unit.

Table 4-436 Frequency

Parameter	Mandatory	Type	Description
type	Yes	String	Time type.

Parameter	Mandatory	Type	Description
cron_expr	No	String	Cron expression, which uses the 24-hour format and is precise down to the minute. • 0/10 * * * *: The query starts from 00:00 and is performed every 10 minutes at 00:00, 00:10, 00:20, 00:30, 00:40, 00:50, 01:00, and so on. For example, if the current time is 16:37, the next query is at 16:50. • 0 0/5 * * *: The query starts from 00:00 and is performed every 5 hours at 00:00, 05:00, 10:00, 15:00, 20:00, and so on. For example, if the current time is 16:37, the next query is at 20:00. • 0 14 * * *: The query is performed at 14:00 every day. • 0 0 10 * *: The query is performed at 00:00 on the 10th day of every month.
hour_of_day	No	Integer	This field is used when **type** is set to **DAILY** or **WEEKLY**. **DAILY** ranges from 0 to 23. **WEEKLY** ranges from 0 to 23.
day_of_week	No	Integer	This field is used when **type** is set to **WEEKLY** (from Sunday to Saturday).
fixed_rate	No	Integer	Value of a period. This field is used when **type** is set to **FIXED_RATE**. It is used together with **fixed_rate_unit** to indicate a fixed period.
fixed_rate_unit	No	String	Unit of a period. This field is used when **type** is set to **FIXED_RATE**. It is used together with **fixed_rate** to indicate a fixed period. The value can be **hour** or **minute**.

Table 4-437 SqlNotificationSaveRule

Parameter	Mandatory	Type	Description
language	Yes	String	Language of the preference. Minimum: **0** Maximum: **10**
timezone	No	String	Time zone information used in a notification. Example: **+08:00** Minimum: **0** Maximum: **1024**
user_name	Yes	String	Username used in a notification. It is generally displayed in the first line of the greeting. Minimum: **1** Maximum: **1024**
topics	Yes	Array of **Topics** objects	Topic information, which will be unavailable soon. You are advised to use the action rule function.
template_name	Yes	String	Message template name.

Table 4-438 Topics

Parameter	Mandatory	Type	Description
name	Yes	String	Topic name.
topic_urn	Yes	String	Specifies the resource identifier of the topic, which is unique.
display_name	No	String	Specifies the topic display name, which is presented as the name of the email sender in email messages.
push_policy	No	Integer	Specifies the message push policy.

Response Parameters

Status code: 200

Table 4-439 Response body parameters

Parameter	Type	Description
keywords_alarm_rule_id	String	Keyword alarm ID.
keywords_alarm_rule_name	String	Original rule name.
alarm_rule_alias	String	Rule name.
keywords_alarm_rule_description	String	Keyword alarm description.
keywords_requests	Array of **KeywordsResBody** objects	Keyword details.
frequency	**FrequencyRespBody** object	Alarm statistical period.
keywords_alarm_level	String	Alarm severity.
keywords_alarm_send	Boolean	Whether to send an alarm.
domain_id	String	domainId
create_time	Long	Creation time (timestamp in milliseconds).
update_time	Long	Update time (timestamp in milliseconds).
language	String	Language of information added to emails.
projectId	String	Project ID.
topics	Array of **Topics** objects	Notification topic, which will be unavailable soon. You are advised to use the alarm action rule function.
condition_expression	String	Description.
indexId	String	Index ID.
notification_frequency	Integer	Notification frequency, in minutes.
alarm_action_rule_name	String	Alarm action rule name. **NOTE** Set **alarm_action_rule_name** or **notification_save_rule**. If you set both of them, the value of **alarm_action_rule_name** is prioritized.

Table 4-440 KeywordsResBody

Parameter	Type	Description
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
keywords	String	Keyword
condition	String	Condition
number	Integer	Number of lines.
search_time_range	Integer	Time range for querying the latest data when a task is executed. The maximum value is **60**.
search_time_range_unit	String	Query time unit.

Table 4-441 FrequencyRespBody

Parameter	Type	Description
type	String	Time type.
cron_expr	String	This field is used when **type** is set to **CRON**.
hour_of_day	Integer	This field is used when **type** is set to **DAILY** or **WEEKLY**.
day_of_week	Integer	This field is used when **type** is set to **WEEKLY** (Sunday to Saturday).
fixed_rate	Integer	This field is used when **type** is set to **FIXED_RATE**. If the unit of **fixed_rate_unit** is minute, the maximum value is 60. If the unit is hour, the maximum value is 24.
fixed_rate_unit	String	Enumerated values of the time unit:

Table 4-442 Topics

Parameter	Type	Description
name	String	Topic name.
topic_urn	String	Specifies the resource identifier of the topic, which is unique.
display_name	String	Specifies the topic display name, which is presented as the name of the email sender in email messages.
push_policy	Integer	Specifies the message push policy.

Status code: 400

Table 4-443 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-444 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Modifying a keyword alarm rule

```
PUT https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule

{
  "keywords_alarm_rule_id" : "",
  "keywords_alarm_rule_name" : "test",
  "alarm_rule_alias" : "zhangsan",
  "keywords_alarm_rule_description" : "test",
  "keywords_requests" : [ {
    "log_stream_id" : "1",
    "log_group_id" : "1",
    "keywords" : "test",
    "condition" : ">",
    "number" : "100",
    "search_time_range" : 10,
    "search_time_range_unit" : "minute"
```



```
 } ],
 "frequency" : {
   "type" : "FIXED_RATE",
   "cron_expr" : "",
   "hour_of_day" : 0,
   "day_of_week" : 0,
   "fixed_rate" : 10,
   "fixed_rate_unit" : "minute"
 },
 "keywords_alarm_level" : "Critical",
 "keywords_alarm_send" : true,
 "keywords_alarm_send_code" : "2",
 "domain_id" : "",
 "notification_frequency" : 5,
 "alarm_action_rule_name" : "",
 "notification_save_rule" : {
   "language" : "en-us",
   "timezone" : "xx/xx",
   "user_name" : "test",
   "template_name" : "Message template name.",
   "topics" : [ {
     "name" : "test",
     "topic_urn" : "urn:smn:xxxx-7:1b06fc5dc0814a4da1594a9ade9cb93c:test",
     "display_name" : "",
     "push_policy" : 0
   } ]
 }
}
```

Example Responses

Status code: 200

The request is successful.

```
{
 "keywords_alarm_rule_id" : "",
 "keywords_alarm_rule_name" : "test",
 "keywords_alarm_rule_description" : "test",
 "alarm_rule_alias" : "zhangsan",
 "keywords_requests" : [ {
   "log_stream_id" : "1",
   "log_stream_name" : "test",
   "log_group_name" : "test",
   "log_group_id" : "1",
   "keywords" : "test",
   "condition" : ">",
   "number" : "100",
   "search_time_range" : 10,
   "search_time_range_unit" : "minute"
 } ],
 "frequency" : {
   "type" : "FIXED_RATE",
   "cron_expr" : "",
   "hour_of_day" : 0,
   "day_of_week" : 0,
   "fixed_rate" : 10,
   "fixed_rate_unit" : "minute"
 },
 "keywords_alarm_level" : "Critical",
 "keywords_alarm_send" : false,
 "domain_id" : "",
 "notification_frequency" : 5,
 "alarm_action_rule_name" : "",
 "topics" : [ {
   "name" : "test",
   "topic_urn" : "urn:smn:xxxx-7:1b06fc5dc0814a4da1594a9ade9cb93c:test",
   "display_name" : "",
   "push_policy" : 0
```



```
  } ],
  "language" : "en-us"
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.2005",
  "error_msg" : "Alarm rule params validator error."
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2003",
  "error_msg" : "Failed to update alarm rule."
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.11.3 Querying a Keyword Alarm Rule

Function

This API is used to query a keyword alarm.

URI

GET /v2/{project_id}/lts/alarms/keywords-alarm-rule

Table 4-445 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-446 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-447 Response body parameters

Parameter	Type	Description
keywords_alarm_rules	Array of **KeywordsAlarmRuleRespList** objects	Project ID.

Table 4-448 KeywordsAlarmRuleRespList

Parameter	Type	Description
projectId	String	Project ID.
keywords_alarm_rule_id	String	Keyword alarm ID.
keywords_alarm_rule_name	String	Keyword alarm rule name.
keywords_alarm_rule_description	String	Keyword alarm description.
condition_expression	String	Condition.
keywords_requests	Array of **KeywordsRequest** objects	Keyword details.
frequency	**Frequency** object	Alarm statistical period.
keywords_alarm_level	String	Alarm severity.
keywords_alarm_send	Boolean	Whether to send an alarm.
domain_id	String	Domain ID
create_time	Long	Creation time (timestamp in milliseconds).
update_time	Long	Update time (timestamp in milliseconds).
topics	Array of **Topics** objects	Notification topic, which will be unavailable soon. You are advised to use the action rule function.
template_name	String	Message template name.
status	String	Alarm status.
trigger_condition_count	Integer	Number of queries in which the triggering condition is met. The default value is **1**.
trigger_condition_frequency	Integer	Number of times that log events meet the trigger condition. The default value is **1**.
whether_recovery_policy	Boolean	Whether to enable the alarm clearance notification. The default value is **false**.

Parameter	Type	Description
recovery_policy	Integer	Number of queries in which the triggering condition is not met. The alarm is cleared when this number reaches the value (**3** by default) of this parameter.
notification_frequency	Integer	Notification frequency, in minutes.
alarm_action_rule_name	String	Alarm action rule name.
id	String	The value is the same as that of **keywords_alarm_rule_id**.
indexId	String	The value is the same as that of **keywords_alarm_rule_id**.
key	String	The value is the same as that of **keywords_alarm_rule_id**.

Table 4-449 KeywordsRequest

Parameter	Type	Description
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
log_group_id	String	Log group ID.
log_group_name	String	Log group name.
keywords	String	Keyword.
condition	String	Condition.
number	Integer	Keyword threshold, which forms a condition with **keyword** and **condition**. An alarm is triggered when the condition is met.
search_time_range	Integer	Time range for querying the latest data when a task is executed.
search_time_range_unit	String	Query time unit.

Table 4-450 Frequency

Parameter	Type	Description
type	String	Time type.
cron_expr	String	Cron expression, which uses the 24-hour format and is precise down to the minute. • 0/10 * * * *: The query starts from 00:00 and is performed every 10 minutes at 00:00, 00:10, 00:20, 00:30, 00:40, 00:50, 01:00, and so on. For example, if the current time is 16:37, the next query is at 16:50. • 0 0/5 * * *: The query starts from 00:00 and is performed every 5 hours at 00:00, 05:00, 10:00, 15:00, 20:00, and so on. For example, if the current time is 16:37, the next query is at 20:00. • 0 14 * * *: The query is performed at 14:00 every day. • 0 0 10 * *: The query is performed at 00:00 on the 10th day of every month.
hour_of_day	Integer	This field is used when **type** is set to **DAILY** or **WEEKLY**. **DAILY** ranges from 0 to 23. **WEEKLY** ranges from 0 to 23.
day_of_week	Integer	This field is used when **type** is set to **WEEKLY** (from Sunday to Saturday).
fixed_rate	Integer	Value of a period. This field is used when **type** is set to **FIXED_RATE**. It is used together with **fixed_rate_unit** to indicate a fixed period.
fixed_rate_unit	String	Unit of a period. This field is used when **type** is set to **FIXED_RATE**. It is used together with **fixed_rate** to indicate a fixed period. The value can be **hour** or **minute**.

Table 4-451 Topics

Parameter	Type	Description
name	String	Topic name.

Parameter	Type	Description
topic_urn	String	Specifies the resource identifier of the topic, which is unique.
display_name	String	Specifies the topic display name, which is presented as the name of the email sender in email messages.
push_policy	Integer	Specifies the message push policy.

Status code: 500

Table 4-452 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying a keyword alarm rule

```
GET https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule

/v2/{project_id}/lts/alarms/keywords-alarm-rule
```

Example Responses

Status code: 200

The request is successful.


```
{
  "keywords_alarm_rules" : [ {
    "alarm_action_rule_name" : "Alarm Action Rule Name",
    "alarm_rule_alias" : "APITest",
    "condition_expressions" : [ {
      "alarm_level" : "CRITICAL",
      "condition_expression" : "Matching Log Events>1"
    } ],
    "create_time" : 1736498043489,
    "domain_id" : "78ac2cb7c0be4d0482bd7d949830e0b8",
    "frequency" : {
      "cron_expr" : "",
      "day_of_week" : 1,
      "fixed_rate" : 1,
      "fixed_rate_unit" : "minute",
      "hour_of_day" : 0,
      "type" : "FIXED_RATE"
    },
    "keywords_alarm_level" : "CRITICAL",
    "id" : "025a5375-c548-498c-8330-219cf8a1dbbf",
    "indexId" : "025a5375-c548-498c-8330-219cf8a1dbbf",
    "key" : "025a5375-c548-498c-8330-219cf8a1dbbf",
```



```
  "keywords_alarm_rule_description" : "",
  "keywords_alarm_rule_id" : "025a5375-c548-498c-8330-219cf8a1dbbf",
  "keywords_alarm_rule_name" : "APITest",
  "keywords_alarm_send" : true,
  "keywords_requests" : [ {
    "condition" : ">",
    "conditions" : [ {
      "alarm_level" : "CRITICAL",
      "condition" : ">",
      "number" : 1
    } ],
    "eps_id" : "0",
    "is_time_range_relative" : true,
    "keywords" : "aaa",
    "log_group_id" : "b2ead43b-c055-4581-8c13-56af52b6bc13",
    "log_group_name" : "lts-group-mwb002",
    "log_group_name_alias" : "lts-group-mwb002",
    "log_stream_id" : "072795c7-ce92-4ea3-b359-1928d47ab152",
    "log_stream_name" : "lts-topic-coredns",
    "log_stream_name_alias" : "lts-topic-coredns",
    "number" : 1,
    "search_time_range" : 5,
    "search_time_range_unit" : "minute"
  } ],
  "language" : "zh-cn",
  "notification_frequency" : 0,
  "projectId" : "a0a12b069ab4491185d7cf26c3e86ada",
  "query_version" : "v2",
  "query_version_for_query" : "newVersion",
  "recovery_policy" : 3,
  "status" : "RUNNING",
  "tags" : [ {
    "key" : "tagTest",
    "value" : "level"
  } ],
  "topics" : [ ],
  "trigger_condition_count" : 1,
  "trigger_condition_frequency" : 1,
  "update_time" : 1736498043489,
  "whether_recovery_policy" : true
}, {
  "projectId" : "string",
  "keywords_alarm_rule_id" : "string",
  "keywords_alarm_rule_name" : "string",
  "keywords_alarm_rule_description" : "string",
  "condition_expression" : "string",
  "keywords_requests" : [ {
    "log_stream_id" : "string",
    "log_stream_name" : "string",
    "log_group_id" : "string",
    "log_group_name" : "string",
    "keywords" : "string",
    "condition" : ">=",
    "number" : 1,
    "search_time_range" : 0,
    "search_time_range_unit" : "minute"
  } ],
  "frequency" : {
    "type" : "CRON",
    "cron_expr" : "string",
    "hour_of_day" : 0,
    "day_of_week" : 0,
    "fixed_rate" : 0,
    "fixed_rate_unit" : "minute"
  },
  "keywords_alarm_level" : "Info",
  "keywords_alarm_send" : true,
  "domain_id" : "string",
  "create_time" : 0,
```



```
    "update_time" : 0,
    "template_name" : "Message template name.",
    "status" : "RUNNING",
    "trigger_condition_count" : "1",
    "trigger_condition_frequency" : "1",
    "whether_recovery_policy" : false,
    "recovery_policy" : "3",
    "notification_frequency" : 5,
    "alarm_action_rule_name" : "",
    "topics" : [ {
      "name" : "string",
      "topic_urn" : "string",
      "display_name" : "test-smn",
      "push_policy" : 0
    } ]
  } ]
}
```


Status code: 500

The server has received the request but encountered an internal error.


```
{
  "error_code" : "LTS.2008",
  "error_msg" : "Find Alarm rule failed."
}
```


Status Codes

Status Code	Description
200	The request is successful.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.11.4 Deleting a Keyword Alarm Rule

Function

This API is used to delete a keyword alarm.

URI

DELETE /v2/{project_id}/lts/alarms/keywords-alarm-rule/{keywords_alarm_rule_id}

Table 4-453 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
keywords_alarm_rule_id	Yes	String	Keyword alarm rule ID. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-454 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 400

Table 4-455 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-456 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Deleting a keyword alarm by alarm ID

```
DELETE https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule/{keywords_alarm_rule_id}

/v2/{project_id}/lts/alarms/keywords-alarm-rule/{keywords_alarm_rule_id}
```

Example Responses

Status code: 200

The request is successful.

```
None
```

Status code: 400

Error response content.

```
{
  "error_code" : "LTS.2007",
  "error_msg" : "Alarm rule not exist."
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2002",
  "error_msg" : "Failed to update alarm rule."
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	Error response content.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.12 Alarm List

4.12.1 Querying the Active or Historical Alarm List

Function

This API is used to query the alarm list.

URI

POST /v2/{project_id}/{domain_id}/lts/alarms/sql-alarm/query

Table 4-457 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Table 4-458 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Whether the alarm is an active alarm or a historical alarm.

Parameter	Mandatory	Type	Description
marker	No	String	The value is the ID of the last record on the previous page (value of previous_marker or next_marker returned by the previous page). Minimum: **0** Maximum: **1000**
limit	No	Integer	Number of records on each page. Minimum: **0** Maximum: **1000**

Request Parameters

Table 4-459 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-460 Request body parameters

Parameter	Mandatory	Type	Description
whether_custom_field	Yes	Boolean	Whether to customize the query time segment.
start_time	No	Long	Start time of a customized time segment (timestamp). Minimum: **13** Maximum: **13**

Parameter	Mandatory	Type	Description
end_time	No	Long	End time of a customized time segment (timestamp). Minimum: **13** Maximum: **13**

Parameter	Mandatory	Type	Description
time_range	No	String	Time range specified to query data of the last N minutes when the client time is inconsistent with the server time. It can also be used to accurately query the data of a specified period. Examples: ● **-1.-1.60** indicates that the data of the latest 60 minutes is queried. This query is based on the server time regardless of the current client time. ● **1650852000000.1650852300000.5** indicates the 5 minutes from 10:00:00 to 10:05:00 on April 25, 2022 UTC+08:00. Format: startTimeInMillis.endTimeInMillis.durationInMinutes Parameter description: ● **startTimeInMillis**: start time (UTC) of the query, in milliseconds. If this parameter is set to **-1**, the server calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1,000. For example, -1.1650852300000.5 is equivalent to 1650852000000.1650852300000.5. ● **endTimeInMillis**: end time (UTC) of the query, in milliseconds. If this parameter is set to **-1**, the server calculates the end time as follows: startTimeInMillis + durationInMinutes x 60 x 1,000. If the calculated end time is later than the current system time, the current system time is used.

Parameter	Mandatory	Type	Description
			For example, 1650852000000.-1.5 is equivalent to 1650852000000.1650852300000.5. • **durationInMinutes**: time span, in minutes. The value must be greater than **0**, and also greater than or equal to the result of "(endTimeInMillis – startTimeInMillis)/(60 x 1,000) – 1". If both the start time and end time are set to **-1**, the system sets the end time to the current UTC time (in milliseconds) and calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1,000. For example, **-1.-1.60** indicates the latest 60 minutes. Constraint: In a single request, the following condition must be met: durationInMinutes x 60/ period ≤ 1,440 Minimum: **1** Maximum: **32**
search	No	String	Field specified for fuzzy query, which can be left blank. If the value is not empty, fuzzy match will be performed. The **metadata** field is mandatory. Minimum: **1** Maximum: **1024**
alarm_level_ids	No	Array of strings	Alarm severity (**Critical**, **Major**, **Minor**, **Info**). **NOTE** **alarmLevelIds** is a parameter of an earlier version and is currently compatible with this parameter. You are advised to use this parameter. alarm_level_ids

Parameter	Mandatory	Type	Description
sort	No	**Sort** object	Sorting order, which can be left blank.
step	No	Integer	Statistical step. Unit: ms. For example, if the duration is 1 minute, set this parameter to **60000**.

Table 4-461 Sort

Parameter	Mandatory	Type	Description
order_by	Yes	Array of strings	List of sorted fields. Fields in this list are sorted based on the specified order.
order	Yes	String	Sorting order. The value can be: • **asc** (ascending order) • **desc** (descending order)

Response Parameters

Status code: 200

Table 4-462 Response body parameters

Parameter	Type	Description
events	Array of **Events** objects	Alarm information.
page_info	**PageInfo** object	Pagination details.

Table 4-463 Events

Parameter	Type	Description
annotations	**Annotations** object	Alert details.
metadata	**Metadata** object	Alarm information.
arrives_at	Long	Arrival time (timestamp).
ends_at	Long	Alarm clearance time (timestamp).

Parameter	Type	Description
id	String	Alarm ID.
starts_at	Long	Alarm generation time (timestamp).
timeout	Long	Time when an alarm is automatically cleared (timestamp).
type	String	Alarm rule type (SQL/keyword).

Table 4-464 Annotations

Parameter	Type	Description
message	String	Alarm list details.
log_info	String	Log group/stream ID.
current_value	String	Current value.
old_annotations	String	Original data of (SQL/keyword) alarm details.

Table 4-465 Metadata

Parameter	Type	Description
event_type	String	Alarm type.
event_id	String	Alarm ID.
event_severity	String	Alarm severity.
event_name	String	Alarm name.
resource_type	String	Resource type.
resource_id	String	Log group/stream name.
resource_provider	String	Alarm source.
lts_alarm_type	String	Alarm rule type (SQL/keyword).

Table 4-466 PageInfo

Parameter	Type	Description
next_marker	String	Address of the next page. If this parameter is left empty, no data is displayed on the next page.

Parameter	Type	Description
previous_marker	String	Address of the previous page.
current_count	String	Number of items returned on this page.

Status code: 400

Table 4-467 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-468 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying the active or historical alarm list

```
POST https://{endpoint}/v2/{project_id}/{domain_id}/lts/alarms/sql-alarm/query?type=active_alert

{
  "whether_custom_field" : false,
  "start_time" : 0,
  "end_time" : 0,
  "time_range" : "30",
  "search" : "",
  "alarm_level_ids" : [ "Critical", "Major", "Minor", "Info" ],
  "sort" : {
    "order_by" : [ "starts_at" ],
    "order" : "desc"
  }
}
```

Example Responses

Status code: 200

The request is successful.

```
{
  "events" : [ {
```



```
    "annotations" : {
      "current_value" : "{\"pv\":30}",
      "log_info" : "[{\"log_group_id\":\"50bcab14-xxxx-xxxx-xxxx-41ae4a6e3401\",\"log_group_name\":\"lts-test-group\",\"log_group_name_alias\":\"lts-test-group\",\"log_stream_id\":\"90727e60-xxxx-xxxx-xxxx-19ba53adcbc5\",\"log_stream_name\":\"lts-test-topic\",\"log_stream_name_alias\":\"lts-test-topic\"}]",
      "message" : "{\"alarm_action_rule_name\":\"testlts\",\"alarm_rule_alias\":\"lts001\",\"alarm_rule_id\":\"2ef849e9-afb4-4983-9197-9049c3460b9d\",\"alarm_rule_name\":\"lts001\",\"closed_alarm_time\":0,\"condition_expression\":\"pv > 0\",\"condition_expressions\":[{\"condition_expression\":\"pv > 0\"}],\"create_time\":0,\"domain_id\":\"1d26cc8c86a840e28a4f8dxxxxxxxxxx\",\"frequency\":{\"day_of_week\":1,\"fixed_rate\":1,\"fixed_rate_unit\":\"minute\",\"hour_of_day\":0,\"type\":\"FIXED_RATE\"},\"is_css_sql\":true,\"ltsAlarmInfos\":[{\"conditions\":[],\"is_time_range_relative\":true,\"log_group_id\":\"50bcab14-xxxx-xxxx-xxxx-41ae4a6e3401\",\"log_group_name\":\"lts-test-group\",\"log_group_name_alias\":\"lts-test-group\",\"log_stream_id\":\"90727e60-xxxx-xxxx-xxxx-19ba53adcbc5\",\"log_stream_name\":\"lts-test-topic\",\"log_stream_name_alias\":\"lts-test-topic\",\"search_time_range\":5,\"search_time_range_unit\":\"minute\",\"sql\":\"* | SELECT count(*) as pv\",\"sql_request_title\":\"\"}],\"notification_frequency\":0,\"projectId\":\"\",\"status\":\"RUNNING\",\"topics\":[],\"type\":\"sql\",\"update_time\":0,\"whether_recovery_policy\":false}"
    },
    "metadata" : {
      "event_type" : "alarm",
      "event_id" : "2ef849e9-xxxx-xxxx-xxxx-9049c3460b9d",
      "lts_alarm_type" : "search_analysis",
      "event_severity" : "Critical",
      "resource_type" : "Log group/stream.",
      "event_name" : "lts001",
      "resource_id" : "lts-test-group/lts-test-topic",
      "event_subtype" : "sql",
      "resource_provider" : "LTS"
    },
    "type" : "search_analysis"
  } ]
}
```


Status code: 400

Response content.


```
{
  "error_code" : "LTS.2005",
  "error_msg" : "Find alarm error start_time or end_tim must not be empty."
}
```


Status code: 500

Response content.


```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```


Status Codes

Status Code	Description
200	The request is successful.
400	Response content.
500	Response content.

Error Codes

See **Error Codes**.

4.12.2 Deleting an Active Alarm

Function

This API is used to delete an active alarm.

URI

POST /v2/{project_id}/{domain_id}/lts/alarms/sql-alarm/clear

Table 4-469 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
domain_id	Yes	String	Account ID. For details about how to obtain an account ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**

Request Parameters

Table 4-470 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-471 Request body parameters

Parameter	Mandatory	Type	Description
events	Yes	Array of **Event** objects	Topic information.

Table 4-472 Event

Parameter	Mandatory	Type	Description
metadata	Yes	**Metadata** object	Alarm information. Minimum length: 0 Maximum length: 2048
starts_at	Yes	Long	Alarm generation time (timestamp). Minimum: **0** Maximum: **32**

Table 4-473 Metadata

Parameter	Mandatory	Type	Description
event_type	Yes	String	Alarm type.
event_id	Yes	String	Alarm ID.
event_severity	Yes	String	Alarm severity.
event_name	Yes	String	Alarm name.
resource_type	Yes	String	Resource type.
resource_id	Yes	String	Log group/stream name.
resource_provider	Yes	String	Alarm source.

Parameter	Mandatory	Type	Description
lts_alarm_type	Yes	String	Alarm rule type (SQL/keyword).

Response Parameters

None

Example Requests

Deleting an active alarm by alarm ID

```
POST https://{endpoint}/v2/{project_id}/{domain_id}/lts/alarms/sql-alarm/clear

{
  "events" : [ {
    "metadata" : {
      "event_type" : "alarm",
      "event_id" : "1",
      "lts_alarm_type" : "keywords/sql",
      "resource_type" : "Log group/stream.",
      "event_severity" : "Critical",
      "resource_id" : "lts-group-demo/lts-topic-demo",
      "event_name" : "demo",
      "resource_provider" : "LTS"
    },
    "starts_at" : 1629947408497
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	The request is successful.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.13 Tag Management

4.13.1 Tag Management

Function

This API is used to tag a resource.

URI

POST /v1/{project_id}/{resource_type}/{resource_id}/tags/action

Table 4-474 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
resource_type	Yes	String	Resource type. The value can be **groups** or **topics**.
resource_id	Yes	String	Resource ID.

Request Parameters

Table 4-475 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1** Maximum: **10000**
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8. Minimum: **30** Maximum: **30**

Table 4-476 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Method of adding tags.
is_open	Yes	Boolean	Whether to call external APIs.
tags	Yes	Array of **tagsBody** objects	Tag field information. Up to 20 tag fields are allowed.

Table 4-477 tagsBody

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: *.:=+-@. Do not start with an underscore ()*. Max 128 characters are allowed.
value	Yes	String	Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _.:/=+-@. Max 255 characters are allowed.

Response Parameters

Status code: 200

Table 4-478 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 201

Table 4-479 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 400

Table 4-480 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-481 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Creating a Tag

```
POST /v1/2a473356cca5487f8373be891bffc1cf/groups/0933a172-379e-44d0-9ed9-f491b1c528ea/tags/action

{
  "action" : "create",
  "is_open" : true,
  "tags" : [ {
    "key" : "zzz",
    "value" : "zzz"
  }, {
    "key" : "sgq",
    "value" : "123"
  } ]
}
```

- Deleting a tag

```
POST /v1/2a473356cca5487f8373be891bffc1cf/groups/0933a172-379e-44d0-9ed9-f491b1c528ea/tags/action

{
  "action" : "delete",
  "is_open" : true,
  "tags" : [ {
    "key" : "zzz",
    "value" : "zzz"
  }, {
    "key" : "sgq",
    "value" : "123"
```



```
 } ]
}
```

Example Responses

Status code: 200

Succeeded.

```
none
```

Status code: 201

Succeeded.

```
none
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.1836",
  "error_msg" : "action is create or delete"
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0203",
  "error_msg" : "Internal Server Error"
}
```

Status Codes

Status Code	Description
200	Succeeded.
201	Succeeded.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.14 Quick Search

4.14.1 Adding a Quick Search

Function

Adding a Quick Search

URI

POST /v1.0/{project_id}/groups/{group_id}/topics/{topic_id}/search-criterias

Table 4-482 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
group_id	Yes	String	ID of the log group whose log streams will be queried. Generally, it contains 36 characters. Minimum: **36** Maximum: **36**
topic_id	Yes	String	Log stream ID. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-483 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum: **30** Maximum: **30**

Table 4-484 Request body parameters

Parameter	Mandatory	Type	Description
criteria	Yes	String	Quick search field. Enter the statement to be queried.
eps_id	No	String	Enterprise project ID.
name	Yes	String	Quick search name, which contains 1 to 64 characters, including only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period.
search_type	Yes	String	Search type, for example, raw logs.

Response Parameters

Status code: 201

Table 4-485 Response body parameters

Parameter	Type	Description
id	String	Quick search ID.

Status code: 400

Table 4-486 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-487 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-488 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-489 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Adding a Quick Search

```
POST /v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/
2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias

{
  "name" : "test",
  "criteria" : "content : 1234567891234567891234567891234567891234567891234567891234567894",
  "eps_id" : "0",
  "search_type" : "ORIGINALLOG"
}
```

Example Responses

Status code: 201

Quick search added.

```
{
  "id" : "0eb379f5-f847-4d25-ba89-05967bf1bae3"
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
  "message" : {
    "code" : "LTS.0208",
    "details" : "The log stream does not existed"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

Status Codes

Status Code	Description
201	Quick search added.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.14.2 Obtaining a Quick Search

Function

This API is used to obtain quick search.

URI

GET /v1.0/{project_id}/groups/{group_id}/topics/{topic_id}/search-criterias

Table 4-490 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
group_id	Yes	String	ID of the log group whose log streams will be queried. Generally, it contains 36 characters. Minimum: **36** Maximum: **36**
topic_id	Yes	String	Log stream ID. Minimum: **36** Maximum: **36**

Table 4-491 Query Parameters

Parameter	Mandatory	Type	Description
search_type	No	String	Raw logs.

Request Parameters

Table 4-492 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-493 Response body parameters

Parameter	Type	Description
search_criterias	Array of **GetQuerySearchCriteriasBody** objects	Response body.

Table 4-494 GetQuerySearchCriteriasBody

Parameter	Type	Description
criteria	String	Quick search of a field.
name	String	Quick search of a name.
id	String	Quick search ID.
search_type	String	Quick search type.

Status code: 400

Table 4-495 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-496 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-497 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-498 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Obtaining a Quick Search

```
GET /v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/
2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias?search_type=ORIGINALLOG
```

Example Responses

Status code: 200

Quick search obtained.


```
{
  "search_criterias" : [ {
    "criteria" : "content : 1234567891234567891234567891234567891234567891234567891234567894",
    "name" : "Creating a Number",
    "id" : "0eb379f5-f847-4d25-ba89-05967bf1bae3",
    "search_type" : "ORIGINALLOG"
  } ]
}
```


Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.


```
{
  "message" : {
    "code" : "LTS.0208",
    "details" : "The log stream does not existed"
  }
}
```


Status code: 500

The server has received the request but encountered an internal error.


```
{
  "error_code" : "LTS.0203",
  "error_msg" : "Internal Server Error"
}
```


Status Codes

Status Code	Description
200	Quick search obtained.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.14.3 Deleting a Quick Search

Function

This API is used to delete a quick search.

URI

DELETE /v1.0/{project_id}/groups/{group_id}/topics/{topic_id}/search-criterias

Table 4-499 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
group_id	Yes	String	ID of the log group whose log streams will be queried. Generally, it contains 36 characters. Minimum: **36** Maximum: **36**
topic_id	Yes	String	Log stream ID. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-500 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum: **30** Maximum: **30**

Table 4-501 Request body parameters

Parameter	Mandatory	Type	Description
epsId	No	String	Enterprise project ID.
id	Yes	String	Quick search ID.

Response Parameters

Status code: 400

Table 4-502 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-503 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-504 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-505 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Deleting a quick search

```
DELETE /v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias

{
  "id" : "345d2276-1ae8-4495-a6ee-bf77c2e5ffb9",
  "epsId" : "0"
}
```

Example Responses

Status code: 204

Quick search deleted.

```
none
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0208",
    "details" : "The log stream does not existed"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```


Status Codes

Status Code	Description
204	Quick search deleted.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

4.14.4 Querying All Quick Searches in a Log Group

Function

This API is used to query all quick searches in a log group.

URI

GET /v1.0/{project_id}/lts/groups/{group_id}/search-criterias

Table 4-506 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see **Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID**. Minimum: **32** Maximum: **32**
group_id	Yes	String	ID of the log group whose log streams will be queried. Generally, it contains 36 characters. Minimum: **36** Maximum: **36**

Request Parameters

Table 4-507 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. For details about how to obtain a user token, see **Obtaining a User Token**. Minimum: **1000** Maximum: **2000**
Content-Type	Yes	String	Set this parameter to **application/json;charset=UTF-8**. Minimum: **30** Maximum: **30**

Response Parameters

Status code: 200

Table 4-508 Response body parameters

Parameter	Type	Description
search_criterias	Array of **search_criteriasBody** objects	Quick search.

Table 4-509 search_criteriasBody

Parameter	Type	Description
criterias	Array of **GetQuerySearchCriteriasBody** objects	Quick search of a single log stream.
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.
search_type	String	Quick search type.

Table 4-510 GetQuerySearchCriteriasBody

Parameter	Type	Description
criteria	String	Quick search of a field.
name	String	Quick search of a name.
id	String	Quick search ID.
search_type	String	Quick search type.

Status code: 400

Table 4-511 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-512 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Status code: 500

Table 4-513 Response body parameters

Parameter	Type	Description
message	**ErrorMessagebody** object	Error message body.

Table 4-514 ErrorMessagebody

Parameter	Type	Description
code	String	Error code.
details	String	Error message.

Example Requests

Querying All Quick Searches in a Log Group

```
GET /v1.0/2a473356cca5487f8373be891bffc1cf/lts/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/search-criterias
```

Example Responses

Status code: 200

Obtained.

```
{
  "search_criterias" : [ {
    "criterias" : [ {
      "criteria" : "234",
      "name" : "234",
      "id" : "aee53496-xxxx-xxxx-xxxx-5a83d1aae134",
      "search_type" : "ORIGINALLOG"
    }, {
      "criteria" : "24",
      "name" : "2342",
      "id" : "939c930a-xxxx-xxxx-xxxx-a3040d857ce1",
      "search_type" : "ORIGINALLOG"
    } ],
    "log_stream_id" : "85025a4b-xxxx-xxxx-xxxx-2b6851d84ea2",
    "log_stream_name" : "lts-test-topic",
    "search_type" : "ORIGINALLOG"
  } ]
}
```

Status code: 400

Invalid request. Modify the request based on the description in **error_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0201",
    "details" : "The log group does not existed"
  }
}
```

Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

Status Codes

Status Code	Description
200	Obtained.
400	Invalid request. Modify the request based on the description in **error_msg** before a retry.

Status Code	Description
500	The server has received the request but encountered an internal error.

Error Codes

See **Error Codes**.

5 Appendix

5.1 Status Codes

Table 1 lists the status codes.

Table 5-1 Status codes

Status Code	Returned Value	Description
200	OK	The normal response for the GET or PUT operation is returned.
201	OK	The POST request is successful and the query result is returned.
204	No Content	The normal response for the DELETE operation is returned.
400	Bad Request	Request error.
401	Unauthorized	The authentication information is not provided or is incorrect.
403	Forbidden	You are forbidden to access the page requested.
404	Not Found	The server failed to find the requested resource.
408	Request Timeout	The request timed out.
429	Too Many Requests	The number of requests exceeded the upper limit.
500	Internal Server Error	The server encountered an unexpected condition which prevented it from fulfilling the request.
503	Service Unavailable	The service is currently unavailable.

5.2 Error Codes

Status Code	Error Codes	Error Message	Description	Solution
400	LTS.0009	Failed to validate the request body.	Parameter verification failed.	Modify request parameters based on the returned error information and try again.
400	LTS.0010	The system encountered an internal error	An internal error occurred	An internal error occurred in LTS. Contact technical support.
400	LTS.0201	The log group is not existed	Failed to create the log stream because the associated log group does not exist.	Check whether the ID of the log group is correct.
400	LTS.0208	Log stream is associated by transfer	The log stream does not exist.	Check whether the log stream to be deleted exists.
400	LTS.0301	'*' and '?' not allowed as first character	Asterisks (*) and question marks (?) are placed in the middle or at the end of a keyword.	Check the keywords field based on the error information.
400	LTS.2001	Failed to create alarm rule	Creation error.	Check whether the project ID is correct.
400	LTS.2002	Failed to delete alarm rule	Deletion error.	Check whether the database or network connection is normal.
400	LTS.2003	Failed to update alarm rule	Modification error.	Abnormal connection to the database. Check the database instance status.

Status Code	Error Codes	Error Message	Description	Solution
400	LTS.2004	The size of alarm rule has exceed the limit: 200	The number of alarm rules cannot exceed 200.	Delete existing alarm rules that are no longer used.
400	LTS.2005	The parameter is incorrect	Incorrect parameter.	Correct the parameter based on the returned error information.
400	LTS.2006	Alarm rule name has already exist	The alarm rule name already exists.	Use another alarm rule name.
400	LTS.2007	Alarm rule not exist	The alarm rule does not exist.	Check whether the alarm rule exists.
400	LTS.2008	Find Alarm rule failed	Failed to query the alarm rule.	Check whether the database or network connection is normal.
400	LTS.2009	User must have SMN service authority	You must have the permissions on SMN.	Acquire the permissions on SMN.
400	LTS.2010	Topics cannot be empty	The SMN topic cannot be empty.	Check whether the SMN topic is empty.
400	LTS.2011	Alarm rule invalid query frequency or invalid cron expression	Invalid query frequency or cron expression.	Check the query frequency or cron expression.
400	LTS.2012	The query time range cannot be larger than 1 hour when the query frequency is less than every 5 minutes.	The query time range cannot be larger than 1 hour when the query frequency is less than every 5 minutes.	Check the query time range and query frequency.

Status Code	Error Codes	Error Message	Description	Solution
400	LTS.2013	Send Subject Error	Incorrect SMN topic.	Correct the topic based on the error information.
403	LTS.0003	No permission.	Invalid role	Grant the LTS service permission.
403	LTS.0011	Invalid projectId	Invalid project ID.	Ensure that the project ID in the URL is the same as that in the token.
500	LTS.0107	Current user does not have the permission to operate this group	Failed to update the log group.	Abnormal connection to the database. Check the database instance status.

5.3 Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID

Obtaining Account and Project IDs

Account and project IDs are required in URLs when you call some APIs.

If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.

Obtaining Log Group and Log Stream IDs

1. Log in to the LTS console.
2. On the **Log Management** page, move the cursor to a log group name to view the log group ID.
3. Click ⌄ of the target log group and move the cursor to a log stream name to view the log stream ID.

