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DataWorks

API

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Document conventions

Style	Description	Example
Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	Notice: If the weight is set to 0, the server no longer receives new requests.
Note	A note indicates supplemental instructions, best practices, tips, and other content.	Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click **Settings**> **Network**> **Set network type**.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click **OK**.
`Courier font`	Courier font is used for commands	Run the `cd /d C:/window` command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	`bae log list --instanceid` *Instance_ID*
[] or [a|b]	This format is used for an optional value, where only one item can be selected.	`ipconfig [-all|-t]`
{} or {a|b}	This format is used for a required value, where only one item can be selected.	`switch {active|stand}`

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1.Overview

This topic describes the applicable scopes, billing rules, and call limits of DataWorks API operations and lists the DataWorks API operations by function.

Applicable scopes

- Applicable editions: DataWorks Enterprise Edition and DataWorks Ultimate Edition
- Applicable regions: China (Hangzhou), China (Shanghai), China (Shenzhen), China (Beijing), China (Zhangjiakou), China North 2 Ali Gov, China East 2 Finance, China (Chengdu), China (Hong Kong), Singapore (Singapore), Indonesia (Jakarta), US (Silicon Valley), India (Mumbai), US (Virginia), Germany (Frankfurt), UK (London), Japan (Tokyo), Australia (Sydney), and Malaysia (Kuala Lumpur)

Billing rules

DataWorks provides a free quota for you to call API operations. After you use up the free quota, you are charged based on the pay-as-you-go billing method. The following table describes the billing rules for different editions of DataWorks.

Item	Enterprise edition	Ultimate Edition
Free quota	1 million calls per month	10 million calls per month
Pricing based on the pay-as-you-go billing method	USD 0.05 per 10,000 calls	

DataWorks provides a free quota for you to call API operations in each calendar month in each region. This free quota is shared by your Alibaba Cloud account and RAM users within your Alibaba Cloud account. After the free quota is used up, you are charged USD 0.05 per 10,000 calls for additional API requests that you make.

Call limits

DataWorks API operations are classified into three levels to standardize API operation calls and ensure system stability. For more information, see List of operations by function. The following table describes the call limits of API operations at different levels.

Level	Call limit
Level 1	QPS[1] ≤ 50
Level 2	QPS[1] ≤ 20
Level 3	QPS[1] ≤ 5 and the total number of daily calls[2] ≤ 10,000

Note:

- 1: the total queries per second (QPS) for all API operations at the specific level in each region for an Alibaba Cloud account and RAM users within the Alibaba Cloud account.
- 2: the total number of daily calls for all API operations at Level 3 in each region for an Alibaba Cloud account and RAM users within the Alibaba Cloud account.

List of operations by function

The following tables list the API operations available for use in DataWorks. The API operations are related to tenants, metadata, DataStudio, Data Integration, Data Modeling, Operation Center, Data Quality, DataService Studio, Data Security Guard, Migration Assistant, and Security Center. For information about how to call API operations to develop data in DataWorks, see Sample calls to DataWorks API operations.

- Tenants

Operation	Description	Level
ListCalcEngines	Queries compute engine instances.	Level 2
CreateDataSource	Adds a data source to DataWorks.	Level 2
ListDataSources	Queries the data sources of DataWorks.	Level 3
UpdateDataSource	Updates a data source.	Level 2
DeleteDataSource	Deletes a data source.	Level 2
ListResourceGroups	Queries resource groups.	Level 1
GetProject	Queries the information about a DataWorks workspace.	Level 1
AddProjectMemberToRole	Assigns a role to a member of a DataWorks workspace. Before you call this operation, you must add a user as a member to the DataWorks workspace.	Level 2
CreateProjectMember	Adds a user to a DataWorks workspace.	Level 2
DeleteProjectMember	Removes a user from a DataWorks workspace.	Level 2
ListProjectRoles	Queries roles in a DataWorks workspace.	Level 1
RemoveProjectMemberFromRole	Removes a role from a user in a DataWorks workspace.	Level 2
ListProjectMembers	Queries members in a DataWorks workspace.	Level 1
ListProjects	Queries the DataWorks workspaces of the tenant to which a user belongs by page.	Level 1

Operation	Description	Level
ListProjectIds	Queries the IDs of the DataWorks workspaces on which a specific Alibaba Cloud account or RAM user has permissions.	Level 1

- Metadata

Operation	Description	Level
GetMetaDBInfo	Queries the basic metadata information about a compute engine instance.	Level 1
GetMetaDBTableList	Queries metatables in a compute engine instance.	Level 1
CheckMetaTable	Checks whether a metatable exists.	Level 1
CheckMetaPartition	Checks whether a partition exists in a metatable.	Level 1
SearchMetaTables	Queries metatables based on specific conditions.	Level 1
GetMetaTableBasicInfo	Queries the basic information about a metatable.	Level 1
GetMetaTableColumn	Queries the field information about a metatable.	Level 1
GetMetaTablePartition	Queries the partitions of a metatable.	Level 1
GetMetaTableOutput	Queries the output information in a metatable.	Level 1
GetMetaTableChangeLog	Queries the change logs of a metatable.	Level 1
GetMetaTableIntroWiki	Queries the instructions on how to use a metatable.	Level 1
GetMetaTableLineage	Queries the lineage of a metatable.	Level 1
GetMetaColumnLineage	Queries the lineage of a field in a metatable.	Level 2
CreateMetaCategory	Creates a category.	Level 2
DeleteMetaCategory	Deletes a category.	Level 2

Operation	Description	Level
UpdateMetaCategory	Updates a category.	Level 2
GetMetaCategory	Queries a category tree.	Level 1
GetMetaTableListByCategory	Queries metatables in a specific category.	Level 1
AddToMetaCategory	Adds a metatable to a specific category.	Level 2
DeleteFromMetaCategory	Removes a metatable from a specific category.	Level 2
CreateTable	Creates a MaxCompute table.	Level 3
UpdateTable	Updates a MaxCompute table.	Level 2
UpdateTableAddColumn	Updates the fields in a MaxCompute table.	Level 3
DeleteTable	Deletes a MaxCompute table.	Level 2
GetDDLJobStatus	Queries the status of a table creation, update, or deletion task.	Level 1
UpdateMetaTable	Updates the metadata information about a table.	Level 2
UpdateMetaTableIntroWiki	Updates the instructions on how to use a metatable. If no instruction on how to use the metatable is available, the instructions that are specified by calling this operation are added.	Level 2
ListMetaDB	Queries metadatabases.	Level 1
UpdateTableModelInfo	Updates the information about a table, such as the theme, level, and category.	Level 2
CreateTableTheme	Creates a table theme.	Level 2
DeleteTableTheme	Deletes a table theme.	Level 2
UpdateTableTheme	Updates a table theme.	Level 2
ListTableTheme	Queries table themes.	Level 1
CreateTableLevel	Creates a table level.	Level 2
DeleteTableLevel	Deletes a table level.	Level 2

Operation	Description	Level
UpdateTableLevel	Updates a table level.	Level 2
ListTableLevel	Queries table levels.	Level 1

- DataStudio

Operation	Description	Level
CreateFile	Creates a file in DataStudio.	Level 3
CreateUdfFile	Creates a file for a function in DataStudio.	Level 2
CreateBusiness	Creates a workflow.	Level 2
DeleteBusiness	Deletes a workflow.	Level 3
CreateFolder	Creates a folder.	Level 2
UpdateBusiness	Updates a workflow.	Level 2
ListFiles	Queries files.	Level 1
EstablishRelationTableToBusiness	Imports a table to a workflow. A call of this API operation is equivalent to the following operations: Go to the DataStudio page, find the workflow to which you want to import a table in the Scheduled Workflow pane, and then click the workflow name. Click the MaxCompute folder, right-click the Table folder, and then select Import Table.	Level 2
SubmitFile	Commits a file to the development environment of the scheduling system to generate a node.	Level 3
ListBusiness	Queries workflows.	Level 1
GetFileVersion	Queries the details of a file version.	Level 1
DeleteFolder	Deletes a folder from DataStudio.	Level 3
DeleteFile	Deletes a file from DataStudio.	Level 3

Operation	Description	Level
GetDeployment	Queries the details of a deployment task.	Level 1
UpdateFile	Updates a file.	Level 2
GetFolder	Queries the details of a folder.	Level 1
ListFileVersions	Queries file versions.	Level 1
GetFile	Queries the details of a file.	Level 1
ListFolders	Queries folders.	Level 1
DeployFile	Deploys a file to the production environment.	Level 3
UpdateUdfFile	Updates the file information about a function.	Level 2
GetBusiness	Queries the details of a workflow.	Level 1
UpdateFolder	Updates the information about a folder.	Level 2
CheckFileDeployment	Returns the check events of a file. After you commit your file that is created on the DataStudio page, the system checks the file and returns check events before the system deploys the file. You must determine whether the check can be continued based on the events.	Level 1
ListDeployments	Queries deployment tasks. This operation is equivalent to viewing a list of deployment tasks on the Deploy Tasks page of the DataWorks console.	Level 1
UpdateIDEEventResult	Returns the check results of an extension point event to DataStudio after the extension point event is triggered and an extension checks the extension point event.	Level 2

Operation	Description	Level
GetIDEEventDetail	Queries the data snapshot of an extension point based on the ID of an open message when the related extension point event is triggered.	Level 1

- Data Integration

Operation	Description	Level
CreateDISyncTask	Creates a synchronization node or solution in Data Integration.	Level 3
DeleteDISyncTask	Deletes a synchronization node in Data Integration. You can call this operation to delete only a real-time synchronization node.	Level 3
UpdateDISyncTask	Updates a synchronization node or solution in Data Integration.	Level 3
TestNetworkConnection	Tests the network connectivity between a data source and a resource group.	Level 3
GetDataSourceMeta	Queries the metadata of a specified data source.	Level 3
ListDIProjectConfig	Queries the default global configuration of synchronization solutions in a specified DataWorks workspace.	Level 3
UpdateDIProjectConfig	Modifies the default global configuration of synchronization solutions in a specified DataWorks workspace.	Level 3
GetDISyncTask	Queries details about a real-time synchronization node or a synchronization solution.	Level 3
DeployDISyncTask	Deploys a real-time synchronization node or a synchronization solution.	Level 3
GetDISyncInstanceInfo	Queries the status of a real-time synchronization node or a synchronization solution.	Level 3
StartDISyncInstance	Starts a real-time synchronization node or a synchronization solution.	Level 3

Operation	Description	Level
StopDISyncInstance	Stops a real-time synchronization node.	Level 3
TerminateDISyncInstance	Undeploys a real-time synchronization node.	Level 3
GenerateDISyncTaskConfigForCreating	Generates an ID for an asynchronous thread that is used to create a real-time synchronization node in Data Integration.	Level 3
GenerateDISyncTaskConfigForUpdating	Generates an ID for an asynchronous thread that is used to update a real-time synchronization node in Data Integration.	Level 3
QueryDISyncTaskConfigProcessResult	Obtains the asynchronously generated parameters based on the ID of an asynchronous thread. The parameters are used to create or update a real-time synchronization node or a synchronization solution in Data Integration.	Level 3

For more information about how to call an API operation to create a node in Data Integration, see Use API operations to create, configure, and manage a data synchronization node.

- Operation Center

Operation	Description	Level
ListAlertMessages	Queries alerts.	Level 1
GetBaselineConfig	Queries the configurations of a baseline.	Level 1
ListNodesByBaseline	Queries nodes in a baseline.	Level 1
ListBaselineConfigs	Queries baselines.	Level 1
GetBaselineKeyPath	Queries the key path of a baseline instance.	Level 1
GetBaselineStatus	Queries the details of a baseline instance.	Level 1
ListBaselineStatuses	Queries baseline instances.	Level 1
DeleteRemind	Deletes a custom alert rule.	Level 2

Operation	Description	Level
UpdateRemind	Updates a custom alert rule.	Level 3
CreateRemind	Creates a custom alert rule.	Level 3
GetRemind	Queries the details of a custom alert rule.	Level 1
ListReminds	Queries custom alert rules.	Level 1
ListTopics	Queries events.	Level 1
GetTopic	Queries the details of an event.	Level 1
GetTopicInfluence	Queries baseline instances affected by an event.	Level 1
GetNode	Queries the details of a node.	Level 1
ListNodeInputOrOutput	Queries the ancestor or descendant nodes of a node. Only the ancestor or descendant nodes at the nearest level can be queried each time.	Level 1
ListNodes	Queries nodes.	Level 1
GetNodeCode	Queries the code of a node.	Level 1
GetInstance	Queries the details of an instance.	Level 1
ListInstances	Queries instances.	Level 1
GetInstanceLog	Queries the logs of an instance.	Level 1
StopInstance	Terminates an instance.	Level 2
RestartInstance	Restarts an instance.	Level 2
SetSuccessInstance	Sets the status of a failed instance to successful.	Level 2
SuspendInstance	Suspends an instance.	Level 2
ResumeInstance	Resumes a suspended instance.	Level 2
RunCycleDagNodes	Creates a workflow to backfill data.	Level 2
RunSmokeTest	Creates a workflow to perform smoke testing.	Level 2

Operation	Description	Level
ListSuccessInstanceAmount	Queries the trend of the number of auto triggered node instances that are successfully run each hour within the current day.	Level 3
ListInstanceAmount	Queries the trend of the number of auto triggered node instances within a specified period of time.	Level 1
TopTenElapsedTimeInstance	Queries the ranking of the running durations of instances.	Level 1
TopTenErrorTimesInstance	Queries the ranking of nodes on which errors occur within the last month.	Level 1
GetFileTypeStatistic	Queries the distribution of node types.	Level 1
GetInstanceStatusStatistic	Queries the number of instances in each state.	Level 1
ListFileType	Queries the information about one or more node types, such as the code and name of a node type.	Level 1
RunManualDagNodes	Runs nodes in a manually triggered workflow. Before you call this operation, make sure that the manually triggered workflow is committed and deployed. You can find the manually triggered workflow on the Operation Center page only after the manually triggered workflow is committed and deployed.	Level 2
ListManualDagInstances	Queries the information about instances in a manually triggered workflow.	Level 1
GetDag	Queries the details of a directed acyclic graph (DAG) based on the ID of the DAG.	Level 1
ListDags	Queries the details of DAGs for a single data backfill instance based on OpSeq.	Level 1
ListNodesByOutput	Queries nodes based on the output of the nodes.	Level 1

Operation	Description	Level
RunTriggerNode	Runs a manually triggered node.	Level 2
GetNodeParents	Queries the ancestor nodes of a node.	Level 2
GetNodeChildren	Queries the descendant nodes of a node.	Level 2
UpdateNodeRunMode	Freezes or unfreezes a node.	Level 2
UpdateNodeOwner	Changes the owner of a node.	Level 2
UpdateWorkbenchEventResult	Returns the processing result sent by an extension after a process in Operation Center is blocked by the extension.	Level 2
ListShiftPersonnels	Queries the on-duty engineers in a shift schedule.	Level 1
ListShiftSchedules	Queries shift schedules in Operation Center.	Level 1

- Data Quality

Operation	Description	Level
UpdateQualityFollower	Updates a subscription relationship.	Level 2
UpdateQualityRule	Updates a monitoring rule.	Level 2
GetQualityRule	Queries the information about a monitoring rule.	Level 1
ListQualityRules	Queries monitoring rules based on a partition filter expression.	Level 3
CreateQualityRule	Creates a monitoring rule.	Level 3
DeleteQualityFollower	Deletes a subscriber of a partition filter expression.	Level 2
DeleteQualityRule	Deletes a monitoring rule.	Level 2
GetQualityFollower	Queries the subscribers of a partition filter expression.	Level 1
CreateQualityFollower	Creates a subscriber for a partition filter expression.	Level 3

Operation	Description	Level
DeleteQualityEntity	Deletes a partition filter expression.	Level 2
GetQualityEntity	Queries a partition filter expression.	Level 1
CreateQualityEntity	Creates a partition filter expression.	Level 2
CreateQualityRelativeNode	Associates a node with a partition filter expression.	Level 3
DeleteQualityRelativeNode	Disassociates a node from a partition filter expression.	Level 2
ListQualityResultsByEntity	Queries historical monitoring results based on a partition filter expression.	Level 1
ListQualityResultsByRule	Queries monitoring results based on a monitoring rule.	Level 1

- DataService Studio

Operation	Description	Level
CreateDataServiceApi	Creates an API.	Level 3
PublishDataServiceApi	Publishes an API.	Level 3
DeleteDataServiceApi	Deletes an API.	Level 3
ListDataServiceApis	Queries the information about APIs in the development state.	Level 1
GetDataServiceApi	Queries the details of an API in the development state.	Level 1
UpdateDataServiceApi	Updates the information about an API in the development state.	Level 3
GetDataServicePublishedApi	Queries the information about an API in the published state.	Level 1
ListDataServicePublishedApis	Queries the information about APIs in the published state.	Level 1
ListDataServiceApiAuthorities	Queries the APIs whose access permissions are granted to users.	Level 1

Operation	Description	Level
ListDataServiceAuthorizedApis	Queries the APIs that you are authorized to access.	Level 1
AbolishDataServiceApi	Unpublishes an API.	Level 3
GetDataServiceApplication	Queries the details of an application.	Level 1
ListDataServiceApplications	Queries the basic information about applications.	Level 1
CreateDataServiceFolder	Creates a folder.	Level 2
GetDataServiceFolder	Queries a folder.	Level 1
ListDataServiceFolders	Queries one or more folders.	Level 1
CreateDataServiceGroup	Creates a business process.	Level 2
GetDataServiceGroup	Queries a business process.	Level 1
ListDataServiceGroups	Queries business processes.	Level 1
CreateDataServiceApiAuthority	Grants the access permissions on an API.	Level 1
DeleteDataServiceApiAuthority	Revokes the access permissions on an API.	Level 1

- Data Security Guard

Operation	Description	Level
GetOpSensitiveData	Queries the records that are generated on a specified date for access to the sensitive data in all the DataWorks workspaces of a tenant.	Level 1
DesensitizeData	Masks data.	Level 1
GetOpRiskData	Queries the records that are generated on a specified date for access to the high-risk sensitive data in all the DataWorks workspaces of a tenant.	Level 1
GetSensitiveData	Queries the latest sensitive data in all the DataWorks workspaces of a tenant.	Level 1

Operation	Description	Level
ScanSensitiveData	Checks whether input data contains sensitive data.	Level 1

- Migration Assistant

Operation	Description	Level
CreateImportMigration	Creates an import task. The import task contains the import packages of the data sources, nodes, and tables.	Level 2
GetMigrationProcess	Queries the progress of a migration task.	Level 1
StartMigration	Starts a migration task.	Level 2
CreateExportMigration	Creates an export task. You can use this operation to create an export task but cannot use this operation to start the created export task.	Level 2
GetMigrationSummary	Queries the information about a migration task.	Level 2
ListMigrations	Queries migration tasks.	Level 2

- Security Center

Operation	Description	Level
CreatePermissionApplyOrder	Creates a permission request order.	Level 2
GetPermissionApplyOrderDetail	Queries the details of a permission request order.	Level 2
ListPermissionApplyOrders	Queries permission request orders.	Level 3
ApprovePermissionApplyOrder	Processes a permission request order.	Level 2
RevokeColumnPermission	Revokes permissions on table fields from a user.	Level 2
RevokeTablePermission	Revokes permissions on a table from a user.	Level 2

If an error code is returned when you call an API operation, you can view the description of the error code in the API reference. You can also visit the API Error Center to view the details of the error code.

2.Tenant

2.1. ListCalcEngines

Queries compute engine instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListCalcEngines	The operation that you want to perform. Set the value to **ListCalcEngines**.
RegionId	String	Yes	cn-shanghai	The region ID of the compute engine instances. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectId	Long	Yes	27	The DataWorks workspace with which the compute engine instances are associated.
Name	String	No	abc	The name of the compute engine instance, which must be exactly matched.
CalcEngineType	String	Yes	ODPS	The type of the compute engine instance. Valid values: `ODPS`, `EMR`, `BLINK`, `HOLO`, `MaxGraph`, `HYBRIDDB_FOR_POSTGRESQL`, `ADB_MYSQL`, and `HADOOP_CDH`. The values are not case-sensitive.

Parameter	Type	Required	Example	Description
EnvType	String	No	PRD	The environment in which the compute engine instance runs. Valid values: DEV and PRD. The value DEV indicates the development environment, and the value PRD indicates the production environment.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 100. Maximum value: 100.
PageNumber	Integer	No	1	The number of the page to return. Pages start from page 1. Default value: 1.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The query results for compute engine instances that are returned on multiple pages.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	20	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Integer	1	The total number of compute engine instances.
CalcEngines	Array of CalcEngines		The compute engine instances.

Parameter	Type	Example	Description
BindingProjectName	String	abc	The name of the workspace with which the compute engine instance is associated.
IsDefault	Boolean	true	Indicates whether the compute engine instance is the default instance of the same compute engine type.
EngineId	Integer	35	The ID of the compute engine instance.
DwRegion	String	cn-zhangjiakou	The region ID of the DataWorks workspace with which the compute engine instance is associated.
TaskAuthType	String	PROJECT	The identity that is used to access the compute engine instance. Valid values: • USER: current user • PROJECT: Alibaba Cloud account • SUBACCOUNT: RAM user • STS_ROLE: Security Token Service (STS) role
CalcEngineType	String	ODPS	The type of the compute engine instance. Valid values: `ODPS`, `EMR`, `BLINK`, `HOLO`, `MaxGraph`, `HYBRIDDB_FOR_POSTGRESQL`, `ADB_MYSQL`, and `HADOOP_CDH`.
			The details of the compute engine instance. • ODPS

Parameter	Type	Example	Description
			"pubEndpoint": "service.cn.maxcompute.aliyun.com/api", "endpoint": "service.cn.maxcompute.aliyun-inc.com/api", "resourceGroupType": "ODPS", "resourceGroupId": "361826516****", "vpcEndpoint": "service.cn.maxcompute.aliyun-inc.com/api", "projectName": "onefall_test_zjk", "taskSameAsOwner": "true" } • EMR { "emrClusterId": "C-xxx", "specs": "{\"emrClusterId\":\"C-xxx\",\"emrAccessMode\":\"simple\",\"emrResourceQueueName\":\"default\",\"emrProjectId\":\"FP-xxx\"}", "endpoint": "emr.aliyuncs.com", "emrResourceQueueName": "default", "emrAccessMode": "simple", "resourceGroupType": "DW", "projectName": "xx-xxxx", "emrProjectId": "FP-xxxx", "taskSameAsOwner": "false" } • BLINK

Parameter	Type	Example	Description
			"bayesProjectId": "xxxx", "bayesProjectName": "xc_blxxixxxnk_1", "cluster": "xxxssxsx", "endpoint": "https://stream.console.aliyun.com", "engineType": "BLINK", "name": "xsxsxxxxx", "projectName": "xc_blxxxsxink_1", "queue": "root.xc_blxsxxxxxxink_1", "resourceGroupType": "DW", "specs": "{\"cluster\":\"xxxxxx\",\"bayesProjectName\":\"xc_blxxixxxnk_1\",\"bayesProjectId\":\"ssxxxsa\",\"name\":\"sxsxsxxx\",\"queue\":\"root.sxxsxxsx\"}", "taskSameAsOwner": false } • HOLO

Parameter	Type	Example	Description

EngineInfo	Map		"endpoint": "hgprecn-cn-xsxssxsx-cn-shanghai-internal.hologres.aliyuncs.com:80",
			"engineType": "ODPS",
			"odpsEndpoint": "hgprecn-cn-xsxssxxs-cn-shanghai-internal.hologres.aliyuncs.com:80",
			"odpsProjectName": "xsxssxsxsx",
			"projectName": "xsxssxsxsx",
			"resourceGroupType": "DW",
			"specs": "{\"pubEndpoint\":\"hgprecn-cn-xsxssxsxs-cn-shanghai.hologres.aliyuncs.com:80\",\"commonBuyInstanceId\":\"hgprecn-cn-xsxsxsxs\",\"project\":\"holo_upxsxgrade1\",\"common_buy_instance_id\":\"hgprecn-cn-xsxsxs\",\"endpoint\":\"hgprecn-cn-xsxxsxs-cn-shanghai-internal.hologres.aliyuncs.com:80\",\"port\":\"80\",\"host\":\"hgprecn-cn-xsxsxsxs-cn-shanghai-internal.hologres.aliyuncs.com\",\"vpcEndpoint\":\"hgprecn-cn-xsxsxsxs-cn-shanghai-vpc.hologres.aliyuncs.com:80\",\"authType\":2,\"region\":\"cn-shanghai\"}",
			"taskSameAsOwner": false
			}
			• MaxGraph
			{
			"endpoint": "http://pre-graphcompute.aliyuncs.com",
			"engineType": "ODPS",
			"odpsEndpoint": "http://pre-graphcompute.aliyuncs.com",
			"odpsProjectName": "xsxsxsxs",
			"projectName": "xsxsxsxs",
			"resourceGroupType": "DW",
			"taskSameAsOwner": false
			}
			• HYBRIDDB_FOR_POSTGRESQL

Parameter	Type	Example	Description
			"endpoint": "hybriddb_for_postgresql_mo12121ck_endpoint", "engineType": "ODPS", "odpsEndpoint": "hybriddb_for_postgresql_m121212ock_endpoint", "odpsProjectName": "sxasaxsaxaxas", "projectName": "sxasaxsaxaxas", "resourceGroupType": "DW", "specs": "{\"connectionString\":\"gp-xsxsxsxxs.gpdb.rds.aliyuncs.com\",\"database\":\"xsxsxxsxs\",\"password\":\"xxxxxxx\",\"instanceId\":\"gp-cdcdacdacda\",\"port\":\"3432\",\"ownerId\":\"12121212\",\"username\":\"sdasaddsa\"}", "taskSameAsOwner": false } • ADB_MYSQL { "endpoint": "adb_mysql_mock_endpoint", "engineType": "ODPS", "odpsEndpoint": "adb_mysql_mock_endpoint", "odpsProjectName": "am-xsaxaxa", "projectName": "am-xsxsaxa", "resourceGroupType": "DW", "specs": "{\"connectionString\":\"am-xsaxsa.ads.aliyuncs.com:3306\",\"database\":\"xsaxsaxa\",\"password\":\"xsaxsaxassxsa\",\"instanceId\":\"am-xsaxsasx\",\"username\":\"xsaxsadsd\"}", "taskSameAsOwner": false } • HADOOP_CDH { "bindingBaseId": "xsaxsaxs", "endpoint": "xsaaaaa", "engineType": "ODPS",

Parameter	Type	Example	Description
			"odpsEndpoint": "axsxaxssxs", "odpsProjectName": "ssxxax", "projectName": "xsaxsaxsa", "resourceGroupId": 45208xxxxxx, "resourceGroupType": "GATEWAY", "specs": "{\"cluster\": {\"hive\": {\"hiveServer2Url\":\"jdbc:hive2:/ /xxxxxxer-1-cn-shanghai-pre- kerberos- 1:10000\",\"hiveMetastore\":\"thri ft://xxxxxxxr-1-cn-shanghai-pre- kerberos- 1:9083\",\"version\":\"2.1.1\"},\" configFiles\": {\"coreSite\":\"4534574xxxxxx\",\" hdfsSite\":\"453457919xxxxxxx\",\" mapredSite\":\"45345750xxxxxx\",\" yarnSite\":\"4534575xxxxx\",\"krb5 Conf\":\"4534576xxxxx1\",\"hiveSit e\":\"453457xxxxx20\"},\"spark\": {\"version\":\"2.4.0\"},\"cdh\": {\"version\":\"6.3.2\"},\"hdfs\": {\"version\":\"3.0.0\"},\"impala\" : {\"impalaUrl\":\"jdbc:impala://cdh -xsxssxxsx-1-cn-shanghai-pre- kerberos- 1:21050\",\"version\":\"3.2.0\"},\ "yarn\":{\"YarnUrl\":\"http://cdh- xsxsxsxsxs-1-cn-shanghai-pre- kerberos- 1:8032\",\"webUrl\":\"http://cdh- xsxsxssxxssx-1-cn-shanghai-pre- kerberos- 1:8088\",\"version\":\"3.0.0\"},\" presto\": {\"prestoUrl\":\"jdbc:presto://cdh -xssxsxxsxsxs-1-cn-shanghai-pre- kerberos- 1:8080/hive/default\",\"version\": \"0.244.1\"}},\"instanceId\":161sd ads733,\"authDetail\": {\"principal\":\"hive@HADOOP.COM\" ,\"keytabFileId\":\"45345815xsxsxs 3\",\"type\":\"kerberos\",\"userna me\":\"xsxsxsxsa@HADOOP.COM\"},\"r esGroupStatus\":\"\",\"hadoopAuthT ype\":\"kerberos\",\"clusterIdenti fier\":\"xssxsxsxsx\",\"clusterId\ ":xsxsx,\"resGroupId\":4520870619x sxssxxs,\"accessMode\":\"security\ ",\"authType\":2}", "taskSameAsOwner": false

Parameter	Type	Example	Description
EnvType	String	PRD	The environment in which the compute engine instance runs. Valid values: • DEV: development environment • PRD: production environment
Region	String	cn-zhangjiakou	The region ID of the compute engine instance.
GmtCreate	String	Oct 10, 2019 3:42:44 PM	The time when the compute engine instance was created. This value is a timestamp.
BindingProjectId	Integer	27	The ID of the workspace with which the compute engine instance is associated.
Name	String	abc	The display name of the compute engine instance.
TenantId	Long	1234567	The ID of the tenant.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListCalcEngines
&ProjectId=27
&Name=abc
&CalcEngineType=ODPS
&EnvType=PRD
&PageSize=10
&PageNumber=1
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListCalcEnginesResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>0bc1ec92159376****</RequestId>
    <Success>true</Success>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>20</PageSize>
        <TotalCount>1</TotalCount>
        <CalcEngines>
            <BindingProjectName>abc</BindingProjectName>
            <IsDefault>true</IsDefault>
            <EngineId>35</EngineId>
            <DwRegion>cn-zhangjiakou</DwRegion>
            <TaskAuthType>PROJECT</TaskAuthType>
            <CalcEngineType>ODPS</CalcEngineType>
            <EnvType>PRD</EnvType>
            <Region>cn-zhangjiakou</Region>
            <GmtCreate>Oct 10, 2019 3:42:44 PM</GmtCreate>
            <BindingProjectId>27</BindingProjectId>
            <Name>abc</Name>
            <TenantId>1234567</TenantId>
        </CalcEngines>
    </Data>
</ListCalcEnginesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "0bc1ec92159376****",
  "Success" : true,
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 20,
    "TotalCount" : 1,
    "CalcEngines" : {
      "BindingProjectName" : "abc",
      "IsDefault" : true,
      "EngineId" : 35,
      "DwRegion" : "cn-zhangjiakou",
      "TaskAuthType" : "PROJECT",
      "CalcEngineType" : "ODPS",
      "EnvType" : "PRD",
      "Region" : "cn-zhangjiakou",
      "GmtCreate" : "Oct 10, 2019 3:42:44 PM",
      "BindingProjectId" : 27,
      "Name" : "abc",
      "TenantId" : 1234567
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
400	Invalid.CalcEngineEnvType	The specified envType %s is invalid.	The error message returned because the value of the EnvType parameter is invalid.
400	Invalid.CalcEngineType	The specified calcEngineType %s is invalid.	The error message returned because the value of the CalcEngineType parameter is invalid.

HTTP status code	Error code	Error message	Description
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or administrator.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.2. CreateDataSource

Creates a data source in DataWorks.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDataSource	The operation that you want to perform. Set the value to **CreateDataSource**.
RegionId	String	Yes	cn-shanghai	The region ID of the data source. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectId	Long	Yes	1	The ID of the DataWorks workspace to which the data source belongs. You can call the ListProjects operation to obtain the ID.
Name	String	Yes	abc	The name of the data source.

Parameter	Type	Required	Example	Description
Description	String	No	abc	The description of the data source.
DataSourceType	String	Yes	rds	The type of the data source. Valid values: • odps • mysql • rds • oss • sqlserver • polardb • oracle • mongodb • emr • postgresql • analyticdb_for_mysql • hybriddb_for_postgresql • holo
SubType	String	No	mysql	The subtype of the data source. This parameter takes effect only when the DataSourceType parameter is set to mysql. If the DataSourceType parameter is set to mysql, this parameter can be set to rds sqlserver, or postgresql.
EnvType	Integer	Yes	1	The environment in which the data source is used. Valid values: 0 and 1. 0 indicates the development environment. 1 indicates the production environment.
				The details of the data source. Examples of details of some common data sources: • odps

Parameter	Type	Required	Example	Description

				"accessId": "xssssss",
				"accessKey": "xsaxsaxsa",
				"authType": 2,
				"endpoint": "http://service.odps.aliyun.com/api",
				"project": "xsaxsax",
				"tag": "public"
				}
				• mysql
				{
				"database": "xsaxsa",
				"instanceName": "rm-xsaxsa",
				"password": "xsaxsa",
				"rdsOwnerId": "xasxsa",
				"regionId": "cn-shanghai",
				"tag": "rds",
				"username": "xsaxsa"
				}
				• rds
				{
				"configType": 1,
				"tag": "rds",
				"database": "xsaxsa",
				"username": "xsaxsa",
				"password": "xssaxsa$32050",
				"instanceName": "rm-xsaxs",
				"rdsOwnerId": "11111111"
				}
				• oss
				{
				"accessId": "sssssxx",
				"accessKey": "xsaxaxsaxs",
				"bucket": "xsa-xs-xs",
				"endpoint": "http://oss-cn-shanghai.aliyuncs.com",
				"tag": "public"
				}
				• sqlserver

Parameter	Type	Required	Example	Description
Content	String	Yes	null	"jdbcUrl": "jdbc:sqlserver://xsaxsa-xsaxsa.database.xxx.cn:123;DatabaseName=xsxs-xsxs", "password": "sdasda$fs", "tag": "public", "username": "sxaxacdacdd" } • polardb { "clusterId": "pc-sdadsadsa", "database": "dsadsadsa", "ownerId": "121212122", "password": "sdasdafssa", "region": "cn-shanghai", "tag": "polardb", "username": "asdadsads" } • oracle { "jdbcUrl": "jdbc:oracle:saaa:@xxxxx:1521:PROD", "password": "sxasaxsa", "tag": "public", "username": "sasfadfa" } • mongodb { "address": "[\"xsaxxsa.mongodb.rds.aliyuncs.com:3717\"]", "database": "admin", "password": "sadsda@", "tag": "public", "username": "dsadsadas" } • emr

Parameter	Type	Required	Example	Description
				"accessId": "xsaxsa", "emrClusterId": "C-dsads", "emrResourceQueueName": "default", "emrEndpoint": "emr.aliyuncs.com", "accessKey": "dsadsad", "emrUserId": "224833315798889783", "name": "sasdsadsa", "emrAccessMode": "simple", "region": "cn-shanghai", "authType": "2", "emrProjectId": "FP-sdadsad" } • postgresql { "jdbcUrl": "jdbc:postgresql://xxxx:1921/sss", "password": "sdadsads", "tag": "public", "username": "sdsasda" } • analyticdb_for_mysql { "instanceId": "am-sadsada", "database": "xsxsx", "username": "xsxsa", "password": "asdadsa", "connectionString": "am-xssxsxs.ads.aliyuncs.com:3306" } • hybriddb_for_postgresql

Parameter	Type	Required	Example	Description

				"connectionString": "gp-xsaxsaxa-master.gpdbmaster.rds.aliyuncs.com",
				"database": "xsaxsaxas",
				"password": "xsaxsaxsa@11",
				"instanceId": "gp-xsaxsaxsa",
				"port": "541132",
				"ownerId": "xsaxsaxsas",
				"username": "sadsad"
				}
				• holo
				{
				"accessId": "xsaxsaxs",
				"accessKey": "xsaxsaxsa",
				"database": "xsaxsaxsa",
				"instanceId": "xsaxa",
				"tag": "aliyun"
				}
				• kafka
				{
				"instanceId": "xsax-cn-xsaxsa",
				"regionId": "cn-shanghai",
				"tag": "aliyun",
				"ownerId": "1212121212112"
				}

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	String	200	The HTTP status code returned.
Data	Long	123	The ID of the data source.
RequestId	String	0bc141151593763****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateDataSource
&Content={"database":"dbname","instanceName":"instancename","password":"password","rdsOwnerI
d":"123","username":"username"}
&DataSourceType=rds
&EnvType=1
&Name=abc
&ProjectId=1
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<RequestId>0bc141151593763****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>123</Data>
<Success>true</Success>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0bc141151593763****",
  "HttpStatusCode" : 200,
  "Data" : 123,
  "Success" : true
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
400	ConnectionAlreadyExist	The connection with envType %s and name %s already exists.	The error message returned because the connection string already exists.

HttpCode	Error code	Error message	Description
400	DataSource.CheckRamRoleFailure	Failed to check the RAM role. AccountId %s. roleArn %s.	The error message returned because the permissions on the data source failed to be verified.
400	DataSource.ConnectionStrProperty.PatternNotMatch	The pattern value %s is invalid. The correct pattern is %s.	The error message returned because the connection string property of the data source does not match the specified rules.
400	Invalid.DataSource.DataSourceTypeNotSupport	The dataSourceType %s and subType %s are not supported.	The error message returned because the data source type is not supported.
400	MissingParam.ConnectionStr.Property	You must specify property %s required by the data source connection string.	The error message returned because the required properties of the connection string of the data source are not specified.
400	Invalid.DataSource.DataSourceTypeNotExist	The data source type %s does not exist.	The error message returned because the specified data source type does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or administrator.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.3. ListDataSources

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2.4. UpdateDataSource

Updates a data source.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDataSource	The operation that you want to perform.
DataSourceId	Long	Yes	1	The ID of the data source that you want to update. You can call the ListDataSources operation to obtain the ID.

				The details about the data source that you want to update.
				You are not allowed to change the type of the data source. For example, you are not allowed to change the data source type from MaxCompute to mysql.
				Examples of details of some common data sources:
				• odps
				{
				"accessId": "xssssss",
				"accessKey": "xsaxsaxsa",
				"authType": 2,
				"endpoint": "http://service.odps.aliyun.com/api",
				"project": "xsaxsax",
				"tag": "public"
				}
				• mysql
				{
				"database": "xsaxsa",
				"instanceName": "rm-xsaxsa",
				"password": "xsaxsa",
				"rdsOwnerId": "xasxsa",
				"regionId": "cn-shanghai",
				"tag": "rds",
				"username": "xsaxsa"
				}
				• rds

Parameter	Type	Required	Example	Description

				"configType": 1,
				"tag": "rds",
				"database": "xsaxsa",
				"username": "xsaxsa",
				"password": "xssaxsa$32050",
				"instanceName": "rm-xsaxs",
				"rdsOwnerId": "11111111"
				}
				
				• oss
				{
				"accessId": "sssssxx",
				"accessKey": "xsaxaxsaxs",
				"bucket": "xsa-xs-xs",
				"endpoint": "http://oss-cn-shanghai.aliyuncs.com",
				"tag": "public"
				}
				
				• sqlserver
				{
				"jdbcUrl": "jdbc:sqlserver://xsaxsa-xsaxsa.database.xxx.cnv:123;DatabaseName=xsxs-xsxs",
				"password": "sdasda$fs",
				"tag": "public",
				"username": "sxaxacdacdd"
				}
				
				• polardb
				{
				"clusterId": "pc-sdadsadsa",
				"database": "dsadsadsa",
				"ownerId": "121212122",
				"password": "sdasdafssa",
				"region": "cn-shanghai",
				"tag": "polardb",
				"username": "asdadsads"
				}
				
				• oracle

Parameter	Type	Required	Example	Description
Content	String	Yes	{ "accessId": "xssssss", "accessKey": "xsaxsaxsa", "authType": 2, "endpoint": "http://service.odps.aliyun.com/api", "project": "xsaxsax", "tag": "public" }	"jdbcUrl": "jdbc:oracle:saaa:@xxxxx:1521:PROD", "password": "sxasaxsa", "tag": "public", "username": "sasfadfa" } • mongodb { "address": "[\"xsaxxsa.mongodb.rds.aliyuncs.com:3717\"]", "database": "admin", "password": "sadsda@", "tag": "public", "username": "dsadsadas" } • emr { "accessId": "xsaxsa", "emrClusterId": "C-dsads", "emrResourceQueueName": "default", "emrEndpoint": "emr.aliyuncs.com", "accessKey": "dsadsad", "emrUserId": "224833315798889783", "name": "sasdsadsa", "emrAccessMode": "simple", "region": "cn-shanghai", "authType": "2", "emrProjectId": "FP-sdadsad" } • postgresql

Parameter	Type	Required	Example	Description
				"jdbcUrl": "jdbc:postgresql://xxxx:1921/sss", "password": "sdadsads", "tag": "public", "username": "sdsasda" }
				• analyticdb_for_mysql { "instanceId": "am-sadsada", "database": "xsxsx", "username": "xsxsa", "password": "asdadsa", "connectionString": "am-xssxsxs.ads.aliyuncs.com:3306" }
				• hybriddb_for_postgresql { "connectionString": "gp-xsaxsaxa-master.gpdbmaster.rds.aliyuncs.com", "database": "xsaxsaxas", "password": "xsaxsaxsa@11", "instanceId": "gp-xsaxsaxsa", "port": "541132", "ownerId": "xsaxsaxsas", "username": "sadsad" }
				• holo { "accessId": "xsaxsaxs", "accessKey": "xsaxsaxsa", "database": "xsaxsaxsa", "instanceId": "xsaxa", "tag": "aliyun" }
				• kafka

Parameter	Type	Required	Example	Description
				"instanceId": "xsax-cn-xsaxsa", "regionId": "cn-shanghai", "tag": "aliyun", "ownerId": "1212121212112" }
EnvType	Integer	Yes	1	The environment in which the data source runs. Valid values: • 0: development environment • 1: production environment
RegionId	String	Yes	cn-shanghai	The region ID of the data source. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
Description	String	No	xxx	The description of the data source.
Status	String	No	ENABLED	The status of the data source. The parameter is deprecated. Do not use this parameter.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the data source is updated.
HttpStatusCode	String	200	The HTTP status code returned.
RequestId	String	0bc14115159376359****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateDataSource
&Content={"accessId":"xssssss","accessKey":"xsaxsaxsa","authType":2,"endpoint":"http://servi
ce.odps.aliyun.com/api","project":"xsaxsax","tag":"public"}
&DataSourceId=1
&EnvType=1
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc14115159376359****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0bc14115159376359****",
    "HttpStatusCode": 200,
    "Data": true,
    "Success": true
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the member is not the workspace owner or the workspace administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the member is not added to the workspace.

HttpCode	Error code	Error message	Description
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the member does not belong to the tenant.
400	MissingParam.ConnectionStr.Property	You must specify property %s required by the data source connection string.	The error message returned because the required properties of the connection string of the data source are not specified.
400	DataSource.CheckRamRoleFailure	Failed to check the RAM role. AccountId %s. roleArn %s.	The error message returned because the permissions on the data source have failed to be verified.
400	DataSource.ConnectionStrProperty.PatternNotMatch	The pattern value %s is invalid. The correct pattern is %s.	The error message returned because the connection string property of the data source does not match the specified rules.
400	DataSource.NotFound	The specified data source ID %s does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Connection.Empty	You must specify the connection parameter.	The error message returned because the parameters of the specified data source are not specified.
400	Invalid.DataSource.DataSourceTypeNotExist	The data source type %s does not exist.	The error message returned because the specified data source type does not exist.
400	Invalid.DataSource.DataSourceTypeNotSupport	The dataSourceType %s and subType %s are not supported.	The error message returned because the data source type is not supported.
400	Invalid.Operation	You cannot delete the bindingCalcEngine that is bound to the data source.	The error message returned because the compute engine that is associated with the data source cannot be deleted.
400	Invalid.Param.Odps.EngineIdOrConnectStrEmpty	Either the compute engine ID or the connection string must be specified when data source type is ODPS.	The error message returned because the compute engine ID and connection string of the MaxCompute data source cannot be left empty at the same time.
400	Required.Parameter.Empty	You must specify the parameter %s.	The error message returned because a required parameter is not specified.

For a list of error codes, visit the API Error Center.

2.5. DeleteDataSource

Deletes a data source.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDataSource	The operation that you want to perform.
DataSourceId	Long	Yes	1	The ID of the data source. You can call the ListDataSources operation to obtain the ID.
RegionId	String	Yes	cn-shanghai	The region ID of the data source. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the request is successful.
HttpStatusCode	String	200	The HTTP status code returned.
RequestId	String	0bc1411515937635****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteDataSource
&DataSourceId=1
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1411515937635****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0bc1411515937635****",
    "HttpStatusCode": 200,
    "Data": true,
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

HTTP status code	Error code	Error message	Description
400	Invalid.Operation	You cannot delete the bindingCalcEngine that is bound to the data source.	The error message returned because the compute engine instance with which the data source is associated is not allowed to be deleted.

For a list of error codes, visit the API Error Center.

2.6. ListResourceGroups

Queries resource groups of a specified type.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListResourceGroups	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region where the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
ResourceGroupType	Integer	Yes	3	The resource group type based on which you want to query resource groups. Valid values: • 0: DataWorks • 1: Scheduling • 2: MaxCompute • 3: Machine Learning Platform for AI (PAI) • 4: Data Integration • 8: App Studio • 9: DataService Studio If the value indicates a compute engine, the resource groups to query are the ones that were created when you purchased the compute engine.
Keyword	String	No	abc	The keyword that is used for fuzzy queries by resource group name and identifier.
BizExtKey	String	No	default	The category of the resource group. Valid values: • default: shared resource group • single: exclusive resource group

Response parameters

Parameter	Type	Example	Description
Data	Array of Data		The resource groups.
BizExtKey	String	default	The category of the resource group. Valid values: • default: shared resource group • single: exclusive resource group
Cluster	String	AY18G	The name of the cluster. This parameter is returned only if the type of the resource group is MaxCompute or PAI.

Parameter	Type	Example	Description
CreateTime	String	Jul 9, 2018 2:43:37 PM	The time when the cluster was created. Example: Jul 9, 2018 02:43:37 PM.
EnableKp	Boolean	false	Indicates whether the UID of an Alibaba Cloud account is used for access. Valid values: • true: The MaxCompute compute engine uses the UID of the Alibaba Cloud account as the display name of the account for access. • false: The MaxCompute compute engine uses the name of the Alibaba Cloud account as the display name of the account for access. The remaining values are useless. This parameter is returned only if the type of the resource group is MaxCompute.
Id	Long	1234567	The ID of the resource group.
Identifier	String	e1815577-2f4e-4c5e-b29****	The identifier of the resource group.
IsDefault	Boolean	true	Indicates whether the resource group is the default resource group. Valid values: • true: The resource group is the default resource group. • false: The resource group is not the default resource group.
Mode	String	SHARE	The mode of the resource group. Valid values: • ISOLATE: exclusive resource group that adopts the subscription billing method • SHARE: shared resource group that adopts the pay-as-you-go billing method • DEVELOP: resource group for developers
Name	String	abc	The name of the resource group.

Parameter	Type	Example	Description
ResourceGroupType	String	3	The type of the resource group. Valid values: • 0: DataWorks • 2: MaxCompute • 3: PAI • 4: Data Integration • 7: scheduling • 8: App Studio • 9: DataService Studio
Sequence	Integer	300	The sequence number of the resource group. Created resource groups are sorted in ascending order by sequence number.
Specs	Map	null	The details of the resource group. The content enclosed in braces {}is the details of the resource group.
Status	Integer	0	The status of the resource group. Valid values: • NORMAL(0): The resource group is running or in service. • STOP(1): The resource group has expired and is frozen. • DELETED(2): The resource group is released or destroyed. • CREATING(3): The resource group is being created or started. • CREATE_FAILED(4): The resource group fails to be created or started. • UPDATING(5): The resource group is being scaled out or upgraded. • UPDATE_FAILED(6): The resource group fails to be scaled out or upgraded. • DELETING(7): The resource group is being released or destroyed. • DELETE_FAILED(8): The resource group fails to be released or destroyed. • TIMEOUT(9): The operation performed on the resource group times out. All operations may time out. This value is temporarily available only for DataService Studio.

Parameter	Type	Example	Description
TenantId	Long	1234567	The ID of the tenant.
UpdateTime	String	Jul 9, 2018 2:43:37 PM	The time when the resource group was last updated.
HttpStatusCode	Integer	200	The HTTP status code that is returned.
RequestId	String	0bc1411515937635973****	The ID of the request. You can use the ID to query logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListResourceGroups
&RegionId=cn-shanghai
&ResourceGroupType=3
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1411515937635973****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Status>0</Status>
    <IsDefault>true</IsDefault>
    <CreateTime>Jul 9, 2018 2:43:37 PM</CreateTime>
    <Mode>SHARE</Mode>
    <Cluster>AY18G</Cluster>
    <Sequence>300</Sequence>
    <ResourceGroupType>3</ResourceGroupType>
    <Name>abc</Name>
    <TenantId>1234567</TenantId>
    <Identifier>e1815577-2f4e-4c5e-b29****</Identifier>
    <EnableKp>false</EnableKp>
    <BizExtKey>default</BizExtKey>
    <UpdateTime>Jul 9, 2018 2:43:37 PM</UpdateTime>
    <Id>1234567</Id>
    <Specs>{}</Specs>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0bc1411515937635973****",
    "HttpStatusCode": 200,
    "Data": {
        "Status": 0,
        "IsDefault": true,
        "CreateTime": "Jul 9, 2018 2:43:37 PM",
        "Mode": "SHARE",
        "Cluster": "AY18G",
        "Sequence": 300,
        "ResourceGroupType": 3,
        "Name": "abc",
        "TenantId": 1234567,
        "Identifier": "e1815577-2f4e-4c5e-b29****",
        "EnableKp": false,
        "BizExtKey": "default",
        "UpdateTime": "Jul 9, 2018 2:43:37 PM",
        "Id": 1234567,
        "Specs": "{}"
    },
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified project does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or a workspace administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.7. GetProject

Queries the information of a DataWorks workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetProject	The operation that you want to perform.
ProjectId	Long	Yes	27	The ID of the DataWorks workspace. You can call the ListProjects operation to query the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The description of the workspace.
Appkey	String	0	This parameter is deprecated.
BaseProject	Boolean	false	This parameter is deprecated.
DefaultDiResourceGroupIdentifier	String	group_280749521****	The unique identifier of the default resource group for Data Integration configured for the workspace.
Destination	Integer	0	This parameter is deprecated.

Parameter	Type	Example	Description
DevStorageQuota	String	0	This parameter is deprecated.
DevelopmentType	Integer	4	This parameter is deprecated.
DisableDevelopment	Boolean	true	Indicates whether the development engineer role is disabled. Valid values: 0: The development engineer role is enabled. 1: The development engineer role is disabled. Default value: 0.
EnvTypes	List	["PROD"]	The environment of the workspace. Valid values: PROD and DEV. • PROD indicates a production environment. Workspaces in basic mode can run only in a production environment. • DEV indicates a development environment. Workspaces in standard mode can run in both a development environment and a production environment.
GmtCreate	String	Oct 10, 2019 3:42:53 PM	The time when the workspace was created. Example value: Dec 3, 2019 9:12:20 PM.
GmtModified	String	Dec 3, 2019 9:12:20 PM	The time when the workspace was modified. Example value: Dec 3, 2019 9:12:20 PM.
IsAllowDownload	Integer	1	Indicates whether the query result is allowed to be downloaded from DataStudio. Valid values: • 1: The query result is allowed to be downloaded from DataStudio. • 0: The query result is not allowed to be downloaded from DataStudio.
IsDefault	Integer	1	Indicates whether the workspace is a default workspace. Valid values: • 1: The workspace is a default workspace. • 0: The workspace is not a default workspace.

Parameter	Type	Example	Description
MaxFlowNode	Integer	1	This parameter is deprecated.
ProdStorageQuota	String	1	This parameter is deprecated.
ProjectDescription	String	abc	The description of the workspace.
ProjectId	Integer	27	The ID of the workspace.
ProjectIdentifier	String	abc	The unique identifier of the workspace.
ProjectMode	Integer	2	The mode in which the workspace runs. Valid values: • 2: The workspace is in basic mode. • 3: The workspace is in standard mode.
ProjectName	String	abc	The display name of the workspace.
ProjectOwnerBaseId	String	18229311****	The ID of the Alibaba Cloud account used by the workspace owner.
ProtectedMode	Integer	1	Indicates whether the workspace protection feature is enabled. Valid values: • 1: Workspace protection is enabled. • 0: Workspace protection is disabled.
ResidentArea	String	private	This parameter is deprecated.
SchedulerMaxRetryTimes	Integer	3	The default maximum number of automatic reruns that are allowed after an error occurs.
SchedulerRetryInterval	Integer	120000	The default interval at which an automatic rerun is performed. Unit: milliseconds. The maximum value of this parameter is 30 minutes. You must pay attention to the conversion between units.

Parameter	Type	Example	Description
Status	Integer	0	The status of the workspace. Valid values: • AVAILABLE(0): The workspace is normally running. • DELETED(1): The workspace is deleted. • INITIALIZING(2): The workspace is being initialized. • INIT_FAILED(3): The workspace fails to be initialized. • FORBIDDEN(4): The workspace is manually disabled. • DELETING(5): The workspace is being deleted. • DEL_FAILED(6): The workspace fails to be deleted. • FROZEN(7): The workspace is frozen due to overdue payments. • UPDATING(8): The workspace is being updated. The workspace enters this state after you associate a new compute engine with the workspace and the compute engine is being initialized. • UPDATE_FAILED(9): The workspace fails to be updated.
TablePrivacyMode	Integer	1	Indicates whether the MaxCompute tables in the workspace are visible to users within a tenant. Valid values: • 0: The MaxCompute tables are invisible to users within a tenant. • 1: The MaxCompute tables are visible to users within a tenant.
TenantId	Long	280749521	The ID of the tenant.
UseProxyOdpsAccount	Boolean	true	Indicates whether the MaxCompute compute engine is accessed by using a proxy account.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0bc1411515937635973****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the information of the workspace is obtained.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetProject
&ProjectId=27
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1411515937635973****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <ProjectOwnerBaseId>18229311****</ProjectOwnerBaseId>
    <Destination>0</Destination>
    <ProjectName>abc</ProjectName>
    <IsAllowDownload>1</IsAllowDownload>
    <DevelopmentType>4</DevelopmentType>
    <GmtModified>Dec 3, 2019 9:12:20 PM</GmtModified>
    <DisableDevelopment>true</DisableDevelopment>
    <BaseProject>false</BaseProject>
    <ProjectDescription>abc</ProjectDescription>
    <ProjectMode>2</ProjectMode>
    <Status>0</Status>
    <ProjectIdentifier>abc</ProjectIdentifier>
    <IsDefault>1</IsDefault>
    <DevStorageQuota>0</DevStorageQuota>
    <SchedulerMaxRetryTimes>3</SchedulerMaxRetryTimes>
    <ProjectId>27</ProjectId>
    <ResidentArea>private</ResidentArea>
    <UseProxyOdpsAccount>true</UseProxyOdpsAccount>
    <TenantId>280749521</TenantId>
    <GmtCreate>Oct 10, 2019 3:42:53 PM</GmtCreate>
    <MaxFlowNode>1</MaxFlowNode>
    <ProtectedMode>1</ProtectedMode>
    <Appkey>0</Appkey>
    <TablePrivacyMode>1</TablePrivacyMode>
    <ProdStorageQuota> 1</ProdStorageQuota>
    <DefaultDiResourceGroupIdentifier>group_280749521****</DefaultDiResourceGroupIdentifier>
    <SchedulerRetryInterval>120000</SchedulerRetryInterval>
    <EnvTypes>["PROD"]</EnvTypes>
</Data>
<Success>true</Success>
```

`JSON` format


```
{
    "RequestId": "0bc1411515937635973****",
    "HttpStatusCode": 200,
    "Data": {
        "ProjectOwnerBaseId": "18229311****",
        "Destination": 0,
        "ProjectName": "abc",
        "IsAllowDownload": 1,
        "DevelopmentType": 4,
        "GmtModified": "Dec 3, 2019 9:12:20 PM",
        "DisableDevelopment": true,
        "BaseProject": false,
        "ProjectDescription": "abc",
        "ProjectMode": 2,
        "Status": 0,
        "ProjectIdentifier": "abc",
        "IsDefault": 1,
        "DevStorageQuota": 0,
        "SchedulerMaxRetryTimes": 3,
        "ProjectId": 27,
        "ResidentArea": "private",
        "UseProxyOdpsAccount": true,
        "TenantId": 280749521,
        "GmtCreate": "Oct 10, 2019 3:42:53 PM",
        "MaxFlowNode": 1,
        "ProtectedMode": 1,
        "Appkey": 0,
        "TablePrivacyMode": 1,
        "ProdStorageQuota": 1,
        "DefaultDiResourceGroupIdentifier": "group_280749521****",
        "SchedulerRetryInterval": 120000,
        "EnvTypes": "[\"PROD\"]"
    },
    "Success": true
}
```


Error codes

Http status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the project does not exist.

Http status code	Error code	Error message	Description
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the project owner or administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not in the project.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.8. AddProjectMemberToRole

Assigns a role to a member of a DataWorks workspace. Before you call this operation, you must add your Alibaba Cloud account or a RAM user as a member of a DataWorks workspace.

For more information about how to add your Alibaba Cloud account or a RAM user as a member of a DataWorks workspace, see Add a member to a DataWorks workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AddProjectMemberToRole	The operation that you want to perform.
ProjectId	Long	Yes	27	The ID of the DataWorks workspace. You can call the ListProjects operation to query the ID.
RegionId	String	Yes	cn-shanghai	The region of the workspace. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
RoleCode	String	Yes	role_project_guest	The code of the role that you want to assign to a member of a DataWorks workspace. You can call the ListProjectRoles operation to query the code of all roles in a DataWorks workspace.
UserId	String	Yes	1234	The ID of your Alibaba Cloud account. To view the ID, log on to the DataWorks console and move the pointer over the profile picture in the upper-right corner.
ClientToken	String	No	1AFAE64E-D1BE-432B-A9*****	The client token. It is a field with the idempotence property. We recommend that you use a universally unique identifier (UUID). This parameter is used to uniquely identify the API operation call.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1AFAE64E-D1BE-432B-A9****	The ID of the request. You can use the ID to search for logs and troubleshoot issues based on the logs.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=AddProjectMemberToRole
&ProjectId=27
&RegionId=cn-shanghai
&RoleCode=role_project_guest
&UserId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>1AFAE64E-D1BE-432B-A9****</RequestId>
```

`JSON` format

```
{
    "RequestId": "1AFAE64E-D1BE-432B-A9****"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the member is not the workspace owner or the workspace administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the member is not added to the workspace.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the member does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.9. CreateProjectMember

Adds a user to a DataWorks workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateProjectMember	The operation that you want to perform. Set the value to **CreateProjectMember**.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	27	The ID of the DataWorks workspace.
UserId	String	Yes	1234	The ID of the user to be added.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ClientToken	String	No	1AFAE64E-D1BE-432B-A9****	The client token that is used to ensure the idempotence of the request. We recommend that you set this parameter to a UUID.
RoleCode	String	No	role_project_guest	The code of the role. This parameter is optional. If you specify the RoleCode parameter, the user is assigned the role.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1AFAE64E-D1BE-432B-A9****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateProjectMember
&ProjectId=27
&RegionId=cn-shanghai
&UserId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateProjectMemberResponse>
    <RequestId>1AFAE64E-D1BE-432B-A9****</RequestId>
</CreateProjectMemberResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "1AFAE64E-D1BE-432B-A9****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
400	Invalid.Tenant.UserAlreadyInProject	The user already exists in the project.	The error message returned because the user to be added is in the workspace.
400	Invalid.Tenant.UserNotInTenant	The user is not in the tenant.	The error message returned because the member to be added does not belong to the tenant.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or a workspace administrator.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.10. DeleteProjectMember

A topic is added to describe how to call the DeleteProjectMember operation to remove a user from your DataWorks workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	DeleteProjectMember	The operation that you want to perform.
ProjectId	Long	Yes	27	Dataworks ID of the workspace.
RegionId	String	Required	cn-shanghai	Dataworks region ID of the workspace.
UserId	String	Required	1234	The ID of the user.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1AFAE64E-D1BE-432B-A9****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteProjectMember
&ProjectId=27
&RegionId=cn-shanghai
&UserId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>1AFAE64E-D1BE-432B-A9****</RequestId>
```

`JSON` format

```
{
    "RequestId": "1AFAE64E-D1BE-432B-A9****"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified project does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The user is not the project owner or project administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The user is not in the project.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	User is not in tenant.
400	Invalid.Tenant.UserAlreadyInProject	The user already exists in the project.	The user to be added already exists in the project.
400	Invalid.Tenant.UserNotInTenant	The user is not in the tenant.	The member to be added does not belong to any tenant.

For a list of error codes, visit the API Error Center.

2.11. ListProjectRoles

A topic is added to describe how to call the ListProjectRoles operation to query all roles in a workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	ListProjectRoles	The operation that you want to perform.
ProjectId	Long	Yes	27	Dataworks ID of the workspace.

Parameter	Type	Required	Example	Description
RegionId	String	Required	cn-shanghai	Dataworks ID of the region where the workspace is located.

Response parameters

Parameter	Type	Example	Description
ProjectRoleList	Array		The roles of the workspace.
ProjectRoleCode	String	role_project_guest	The role Code of the workspace.
ProjectRoleId	Integer	1	The role ID of the workspace.
ProjectRoleName	String	Visitor	The role name of the workspace.
ProjectRoleType	String	0	The role type of the workspace. Valid values:
RequestId	String	1AFAE64E-D1BE-432B-A9****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListProjectRoles
&ProjectId=27
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>1AFAE64E-D1BE-432B-A9****</RequestId>
<ProjectRoleList>
    <ProjectRoleName> visitor </ProjectRoleName>
    <ProjectRoleType>0</ProjectRoleType>
    <ProjectRoleCode>role_project_guest</ProjectRoleCode>
    <ProjectRoleId>1</ProjectRoleId>
</ProjectRoleList>
```

`JSON` format

```
{
    "RequestId": "1AFAE64E-D1BE-432B-A9****",
    "ProjectRoleList": {
        "ProjectRoleName": "Visitor",
        "ProjectRoleType": 0,
        "ProjectRoleCode": "role_project_guest",
        "ProjectRoleId": 1
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified project does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The user is not the project owner or project administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The user is not in the project.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	User is not in tenant.

For a list of error codes, visit the API Error Center.

2.12. RemoveProjectMemberFromRole

Removes a role from a user in a DataWorks workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RemoveProjectMemberFromRole	The operation that you want to perform.
ProjectId	Long	Yes	27	The ID of the DataWorks workspace.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region where the DataWorks workspace resides.
RoleCode	String	Yes	role_project_guest	The role in the DataWorks workspace. You can call the ListProjectRoles operation to query codes of the roles in the workspace. Valid values: • role_project_owner: workspace owner • role_project_admin: workspace administrator • role_project_dev: developer • role_project_pe: O&M engineer • role_project_deploy: deployment expert • role_project_guest: visitor • role_project_security: security administrator • role_project_tester: experiencer • role_project_erd: model designer
UserId	String	Yes	1234	The ID of the user.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1AFAE64E-D1BE-432B-A9****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RemoveProjectMemberFromRole
&ProjectId=27
&RegionId=cn-shanghai
&RoleCode=role_project_guest
&UserId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>1AFAE64E-D1BE-432B-A9****</RequestId>
```

`JSON` format

```
{
    "RequestId": "1AFAE64E-D1BE-432B-A9****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.13. ListProjectMembers

Queries members in a DataWorks workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	ListProjectMembers	The operation that you want to perform. Set the value to **ListProjectMembers**.
RegionId	String	Yes	cn-shanghai	The region ID of the DataWorks workspace.
ProjectId	Long	Yes	27	The ID of the DataWorks workspace.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 100.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1AFAE64E-D1BE-432B-A9****	The ID of the request.
Data	Object		The query results.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page.
TotalCount	Integer	3	The total number of entries returned.
ProjectMemberList	Array of ProjectMember		The information of members in the DataWorks workspace.
Status	String	0	The status of the member. Valid values: NORMAL (0), FORBIDDEN (1), and DELETED (2). The value NORMAL (0) indicates that the member is in a normal state. The value FORBIDDEN (1) indicates that the member is in the forbidden state. The value DELETED(2) indicates that the member is in the deleted state.

Parameter	Type	Example	Description
ProjectMemberId	String	121	The ID of the member.
Nick	String	zhangsan	The nickname of the member.
ProjectMemberName	String	Tom	The name of the member.
ProjectMemberType	String	0	The type of the member.
ProjectRoleList	Array of Role		The roles that are assigned to the member.
ProjectRoleId	Integer	1	The ID of the role.
ProjectRoleType	String	0	The type of the role. Valid values: • SYSTEM (0): system role • USER_CUSTOM (2): custom role
ProjectRoleName	String	Visitor	The name of the role.
ProjectRoleCode	String	role_project_guest	The code of the role.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListProjectMembers
&ProjectId=27
&PageNumber=1
&PageSize=10
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListProjectMembersResponse>
    <RequestId>1AFAE64E-D1BE-432B-A9****</RequestId>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>3</TotalCount>
        <ProjectMemberList>
            <Status>0</Status>
            <ProjectMemberId>121</ProjectMemberId>
            <Nick>zhangsan</Nick>
            <ProjectMemberName>Tom</ProjectMemberName>
            <ProjectMemberType>0</ProjectMemberType>
            <ProjectRoleList>
                <ProjectRoleId>1</ProjectRoleId>
                <ProjectRoleType>0</ProjectRoleType>
                <ProjectRoleName>Visitor</ProjectRoleName>
                <ProjectRoleCode>role_project_guest</ProjectRoleCode>
            </ProjectRoleList>
        </ProjectMemberList>
    </Data>
</ListProjectMembersResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "1AFAE64E-D1BE-432B-A9****",
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 3,
    "ProjectMemberList" : {
      "Status" : 0,
      "ProjectMemberId" : 121,
      "Nick" : "zhangsan",
      "ProjectMemberName" : "Tom",
      "ProjectMemberType" : 0,
      "ProjectRoleList" : {
        "ProjectRoleId" : 1,
        "ProjectRoleType" : 0,
        "ProjectRoleName" : "Visitor",
        "ProjectRoleCode" : "role_project_guest"
      }
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or administrator.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

2.14. ListProjects

You can call this operation to list DataWorks workspaces of the tenant to which a user belongs by page.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Position	Type	Required	Example	Description
Action	Query	String	Required	ListProjects	The operation that you want to perform.
PageNumber	Query	Integer	Yes	1	The number of the page to return.
RegionId	Host	String	Required	cn-shanghai	The region ID of the DataWorks.

Parameter	Position	Type	Required	Example	Description
PageSize	Query	Integer	No	10	The number of entries to return on each page.

Response parameters

Parameter	Type	Example	Description
PageResult	Struct		The results of the query.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries on each page.
ProjectList	Array of Project		DataWorks results of the workspace.
ProjectDescription	String	Test Space	The detailed description of the workspace.
ProjectId	Long	1212	The ID of the DataWorks workspace.
ProjectIdentifier	String	test	The code of the workspace.
ProjectName	String	Test Space	The name of the workspace.
ProjectOwnerBaseId	String	122222	The user ID of the workspace owner.
ProjectStatus	Integer	0	The status of the workspace.
ProjectStatusCode	String	AVAILABLE	The status code of the workspace.
TotalCount	Integer	123	The total number of entries returned.
RequestId	String	20658801***	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListProjects
&PageNumber=1
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>20658801***</RequestId>
<PageResult>
    <TotalCount>123</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
    <ProjectList>
        <ProjectIdentifier>test</ProjectIdentifier>
        <ProjectOwnerBaseId>122222</ProjectOwnerBaseId>
        <ProjectStatus>0</ProjectStatus>
        <ProjectStatusCode>AVAILABLE</ProjectStatusCode>
        <ProjectName> test space </ProjectName>
        <ProjectId>1212</ProjectId>
        <ProjectDescription> test space </ProjectDescription>
    </ProjectList>
</PageResult>
```

`JSON` format

```
{
    "RequestId":"20658801***",
    "PageResult":{
        "TotalCount":"123",
        "PageSize":"10",
        "PageNumber":"1",
        "ProjectList":[
            {
                "ProjectIdentifier":"test",
                "ProjectOwnerBaseId":"122222",
                "ProjectStatus":"0",
                "ProjectStatusCode":"AVAILABLE",
                "ProjectName":"Test Space",
                "ProjectId":"1212",
                "ProjectDescription":"Test Space"
            }
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified project does not exist.
400	Invalid.Tenant.UserAlreadyInProject	The user already exists in the project.	The user to be added already exists in the workspace.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The user is not the project owner or project administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The user is not in the project.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	User is not in tenant.

For a list of error codes, visit the API Error Center.

2.15. ListProjectIds

Queries the IDs of the workspaces on which a specific Alibaba Cloud account or RAM user has permissions.

For example, an Alibaba Cloud account can assume the developer, O&M engineer, or workspace administrator role in a workspace. For more information, see Manage members and roles.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListProjectIds	The operation that you want to perform. Set the value to ListProjectIds.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region in which DataWorks is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
UserId	String	Yes	171111	The ID of the specific Alibaba Cloud account. You can log on to the DataWorks console and move the pointer over the profile picture in the upper-right corner to view the ID.

Response parameters

Parameter	Type	Example	Description
ProjectIds	List	75777	The IDs of the DataWorks workspaces. The IDs of the workspaces on which the specific Alibaba Cloud account has permissions were returned. In this example, a single workspace ID is used.
RequestId	String	0b57ff72162789455 32771749d****	The ID of the request. You can troubleshoot errors based on the ID.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListProjectIds
&RegionId=cn-shanghai
&UserId=171111
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0b57ff7216278945532771749d****</RequestId>
<ProjectIds>75777</ProjectIds>
```

`JSON` format

```
{
    "RequestId": "0b57ff7216278945532771749d****",
    "ProjectIds": 75777
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Tenant.ConnectionNotExists	The connection does not exist.	The error message returned because the specified data source does not exist.
400	Invalid.Tenant.ProjectNotExists	The project does not exist.	The error message returned because the specified workspace does not exist.
403	Invalid.Tenant.UserIsNotProjectOwnerOrAdmin	The user is not a project administrator or owner.	The error message returned because the user is not the workspace owner or administrator.
400	Invalid.Tenant.UserNotInProject	The user is not in the project.	The error message returned because the user is not added to the workspace.
403	Invalid.Tenant.UserNotInTenant	The user is not in tenant.	The error message returned because the user does not belong to the tenant.

For a list of error codes, visit the API Error Center.

3.Metadata

3.1. GetMetaDBInfo

Queries the basic metadata information about a compute engine instance.

You can call this operation to query only the basic metadata information about a MaxCompute or E-MapReduce (EMR) compute engine instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaDBInfo	The operation that you want to perform. Set the value to **GetMetaDBInfo**.
AppGuid	String	Yes	odps.some_engine_name	The ID of the compute engine instance. Specify the ID in the Engine type.Engine name format.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ClusterId	String	No	abc	The ID of the EMR cluster. This parameter is required only if you set the DataSourceType parameter to emr. You can log on to the EMR console to obtain the ID of the EMR cluster.
DatabaseName	String	No	abc	The name of the metadatabase. This parameter is required only if you set the DataSourceType parameter to emr. You can call the ListMetaDB operation to query the name of the metadatabase.

Parameter	Type	Required	Example	Description
DataSourceType	String	No	emr	The type of the data source. Valid values: odps and emr.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0bc1411515937****	The ID of the request.
Data	Object		The business data returned.
Type	String	hive	The type of the metadatabase.
Comment	String	Comment	The comment.
CreateTime	Long	1541576644000	The time when the compute engine instance was created.
ProjectId	Long	22	The ID of the workspace.
ProjectName	String	test	The name of the workspace.
AppGuid	String	odps.engine_name	The ID of the compute engine instance. The ID is in the Engine type.Engine name format.
OwnerName	String	323	The name of the workspace owner.
OwnerId	String	23	The ID of the Alibaba Cloud account used by the workspace owner.
EnvType	Integer	1	The type of the environment. Valid values: 0 and 1. The value 0 indicates the development environment. The value 1 indicates the production environment.
ProjectNameCn	String	Test project	The display name of the workspace.
Endpoint	String	http://service.odps stg.aliyun-inc.com/	The endpoint of the service.

Parameter	Type	Example	Description
ClusterBizId	String	abc	The ID of the EMR cluster. This parameter is returned only for an EMR compute engine instance.
Name	String	abc	The name of the metadatabase.
Location	String	hdfs://	The storage path of the metadatabase of the EMR cluster.
TenantId	Long	233	The ID of the tenant.
ModifyTime	Long	1541576644000	The time when the compute engine instance was modified.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaDBInfo
&AppGuid=odps.some_engine_name
&ClusterId=abc
&DatabaseName=abc
&DataSourceType=emr
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetMetaDBInfoResponse>
    <RequestId>0bc1411515937****</RequestId>
    <Data>
        <Type>hive</Type>
        <Comment>Comment</Comment>
        <CreateTime>1541576644000</CreateTime>
        <ProjectId>22</ProjectId>
        <ProjectName>test</ProjectName>
        <AppGuid>odps.engine_name</AppGuid>
        <OwnerName>323</OwnerName>
        <OwnerId>23</OwnerId>
        <EnvType>1</EnvType>
        <ProjectNameCn>Test project</ProjectNameCn>
        <Endpoint>http://service.odpsstg.aliyun-inc.com/</Endpoint>
        <ClusterBizId>abc</ClusterBizId>
        <Name>abc</Name>
        <Location>hdfs://</Location>
        <TenantId>233</TenantId>
        <ModifyTime>1541576644000</ModifyTime>
    </Data>
</GetMetaDBInfoResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0bc1411515937****",
  "Data" : {
    "Type" : "hive",
    "Comment" : "Comment",
    "CreateTime" : 1541576644000,
    "ProjectId" : 22,
    "ProjectName" : "test",
    "AppGuid" : "odps.engine_name",
    "OwnerName" : 323,
    "OwnerId" : 23,
    "EnvType" : 1,
    "ProjectNameCn" : "Test project",
    "Endpoint" : "http://service.odpsstg.aliyun-inc.com/",
    "ClusterBizId" : "abc",
    "Name" : "abc",
    "Location" : "hdfs://",
    "TenantId" : 233,
    "ModifyTime" : 1541576644000
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Meta.AppNotExist	The MaxCompute project does not exist.	The error message returned because the MaxCompute project does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaDBInfo operation, see Examples of DataWorks API operations.

3.2. GetMetaDBTableList

Queries metatables in a compute engine instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaDBTableList	The operation that you want to perform. Set the value to **GetMetaDBTableList**.

Parameter	Type	Required	Example	Description
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
AppGuid	String	Yes	odps.testProjectName	The globally unique identifier (GUID) of the MaxCompute project. Specify the GUID in the `odps.{projectName}` format. This parameter must be configured if you set the DataSourceType parameter to odps.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ClusterId	String	No	abc	The ID of the E-MapReduce (EMR) cluster. This parameter must be configured if you set the DataSourceType parameter to emr.
DatabaseName	String	No	abc	The name of the metadatabase.
DataSourceType	String	No	odps	The type of the data source. Valid values: odps and emr.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0bc1ec92159376	The ID of the request.
Data	Object		The business data.
PageNumber	Integer	1	The page number of the returned page.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Long	20	The total number of compute engine instances.
TableEntityList	Array of TableEntityList		The list of metatables in the compute engine instance.
TableName	String	tname	The name of the metatable.
TableGuid	String	odps.engine_name.tname	The GUID of the metatable.
DatabaseName	String	abc	The name of the metadatabase.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaDBTableList
&PageNumber=1
&PageSize=10
&AppGuid=odps.testProjectName
&ClusterId=abc
&DatabaseName=abc
&DataSourceType=odps
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetMetaDBTableListResponse>
    <RequestId>0bc1ec92159376</RequestId>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>20</TotalCount>
        <TableEntityList>
            <TableName>tname</TableName>
            <TableGuid>odps.engine_name.tname</TableGuid>
            <DatabaseName>abc</DatabaseName>
        </TableEntityList>
    </Data>
</GetMetaDBTableListResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0bc1ec92159376",
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 20,
    "TableEntityList" : {
      "TableName" : "tname",
      "TableGuid" : "odps.engine_name.tname",
      "DatabaseName" : "abc"
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Meta.AppNotExist	The MaxCompute project does not exist.	The error message returned because the MaxCompute project does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaDBTableList operation, see Examples of DataWorks API operations.

3.3. CheckMetaTable

Checks whether a table exists.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CheckMetaTable	The operation that you want to perform. Set the value to **CheckMetaTable**.
TableGuid	String	Yes	odps.engine_name.table_name	The GUID of the table.
RegionId	String	Yes	cn-shanghai	The ID of the region.
ClusterId	String	No	abc	The ID of the E-MapReduce (EMR) cluster.
DatabaseName	String	No	abc	The name of the EMR database.

Parameter	Type	Required	Example	Description
TableName	String	No	abc	The name of the EMR table.
DataSourceType	String	No	emr	The type of the data source. Valid values: odps and emr.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the table exists.
RequestId	String	0bc1ec92159376	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CheckMetaTable
&TableGuid=odps.engine_name.table_name
&ClusterId=abc
&DatabaseName=abc
&TableName=abc
&DataSourceType=emr
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CheckMetaTableResponse>
    <Data>true</Data>
    <RequestId>0bc1ec92159376</RequestId>
</CheckMetaTableResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Data" : true,
  "RequestId" : "0bc1ec92159376"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because the table does not exist.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the AppGuid parameter is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the CheckMetaTable operation, see Examples of DataWorks API operations.

3.4. CheckMetaPartition

Checks whether a partition exists.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CheckMetaPartition	The operation that you want to perform. Set the value to **CheckMetaPartition**.
TableGuid	String	Yes	odps.engine_name.table_name	The GUID of the table.
Partition	String	Yes	ds=202005	The name of the partition.
RegionId	String	Yes	cn-shanghai	The region ID.
ClusterId	String	No	abc	The ID of the E-MapReduce (EMR) cluster.
DatabaseName	String	No	abc	The name of the database.

Parameter	Type	Required	Example	Description
TableName	String	No	abc	The name of the table.
DataSourceType	String	No	emr	The type of the data source. Valid values: odps and emr.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
Data	Boolean	true	Indicates whether the partition exists.
RequestId	String	0bc1ec92159376	The ID of the request.
ErrorMessage	String	The connection does not exist.	The error message.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CheckMetaPartition
&TableGuid=odps.engine_name.table_name
&Partition=ds=202005
&ClusterId=abc
&DatabaseName=abc
&TableName=abc
&DataSourceType=emr
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CheckMetaPartitionResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <RequestId>0bc1ec92159376</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
</CheckMetaPartitionResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "RequestId" : "0bc1ec92159376",
  "ErrorMessage" : "The connection does not exist.",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because the table does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the CheckMetaPartition operation, see Examples of DataWorks API operations.

3.5. SearchMetaTables

Queries metatables based on specific conditions.

You can call this operation to query only metatables in a MaxCompute or E-MapReduce (EMR) compute engine instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SearchMetaTables	The operation that you want to perform. Set the value to **SearchMetaTables**.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
AppGuid	String	Yes	odps.engine_name	The GUID of the workspace where the metatables reside.
Keyword	String	Yes	test	The keyword based on which metatables are queried.
EntityType	Integer	No	0	The type of the metatables. Valid values: 0 and 1. The value 0 indicates that tables are queried. The value 1 indicates that views are queried. If you do not configure this parameter, all types of metatables are queried.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.

Parameter	Type	Required	Example	Description
ClusterId	String	No	abc	The ID of the EMR cluster. This parameter is required only if you set the DataSourceType parameter to emr. You can log on to the EMR console to obtain the ID of the EMR cluster.
DataSourceType	String	Yes	emr	The type of the data source. Valid values: odps and emr.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
RequestId	String	0bc1ec92159376****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	1031203110005	The error code.
Data	Object		The business data returned.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page.
TotalCount	Long	100	The total number of metatables.
DataEntityList	Array of DataEntityList		The list of metatables.
TableName	String	table_name	The name of the metatable.
DatabaseName	String	abc	The name of the metadatabase.

Parameter	Type	Example	Description
EntityType	Integer	0	The type of the metatable. Valid values: • 0: table • 1: view
ProjectName	String	test	The name of the workspace.
ProjectId	Long	323	The ID of the workspace.
TableGuid	String	odps.engine_name.table_name	The GUID of the metatable.
OwnerId	String	123	The ID of the Alibaba Cloud account used by the workspace owner.
ClusterId	String	abc	The ID of the EMR cluster.
EnvType	Integer	1	The type of the environment. Valid values: • 1: production environment • 0: development environment
TenantId	Long	12345	The ID of the tenant.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=SearchMetaTables
&PageNumber=1
&PageSize=10
&AppGuid=odps.engine_name
&Keyword=test
&EntityType=0
&ClusterId=abc
&DataSourceType=emr
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SearchMetaTablesResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <ErrorMessage>The specified parameters are invalid.</ErrorMessage>
    <RequestId>0bc1ec92159376****</RequestId>
    <Success>true</Success>
    <ErrorCode>1031203110005</ErrorCode>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <DataEntityList>
            <TableName>table_name</TableName>
            <DatabaseName>abc</DatabaseName>
            <EntityType>0</EntityType>
            <ProjectName>test</ProjectName>
            <ProjectId>323</ProjectId>
            <TableGuid>odps.engine_name.table_name</TableGuid>
            <OwnerId>123</OwnerId>
            <ClusterId>abc</ClusterId>
            <EnvType>1</EnvType>
            <TenantId>12345</TenantId>
        </DataEntityList>
    </Data>
</SearchMetaTablesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "The specified parameters are invalid.",
  "RequestId" : "0bc1ec92159376****",
  "Success" : true,
  "ErrorCode" : 1031203110005,
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "DataEntityList" : {
      "TableName" : "table_name",
      "DatabaseName" : "abc",
      "EntityType" : 0,
      "ProjectName" : "test",
      "ProjectId" : 323,
      "TableGuid" : "odps.engine_name.table_name",
      "OwnerId" : 123,
      "ClusterId" : "abc",
      "EnvType" : 1,
      "TenantId" : 12345
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because the metatable does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the SearchMetaTables operation, see Examples of DataWorks API operations.

3.6. GetMetaTableBasicInfo

Queries the basic information about a metatable.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableBasicInfo	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region in which DataWorks is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the MaxCompute table. Specify the GUID in the odps.projectName.tableName format.

Parameter	Type	Required	Example	Description
ClusterId	String	No	abc	The ID of the E-MapReduce (EMR) cluster. This parameter must be specified if you set the DataSourceType parameter to emr. You can log on to the EMR console to obtain the ID of the cluster.
DatabaseName	String	No	abc	The name of the metadatabase. You can call the ListMetaDB operation to query the name of the metadatabase.
TableName	String	No	abc	The name of the metatable.
DataSourceType	String	No	emr	The type of the data source. Valid values: odps and emr.
Extension	Boolean	No	false	Specifies whether to include extended fields in query results. The extended fields include ReadCount, FavoriteCount, and ViewCount. This parameter takes effect only when you set the DataSourceType parameter to odps.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The business data returned.
Caption	String	Display name	The display name of the metatable.
ClusterId	String	abc	The ID of the EMR cluster.
ColumnCount	Integer	3	The number of fields.
Comment	String	test table	The comment of the metatable.
CreateTime	Long	1589870294000	The time when the metatable was created.

Parameter	Type	Example	Description
DataSize	Long	10	The amount of storage resources that are occupied by the metatable. Unit: bytes.
DatabaseName	String	abc	The name of the metadatabase.
EnvType	Integer	1	The type of the environment. Valid values: • 0: indicates a metatable in the development environment. • 1: indicates a metatable in the production environment.
FavoriteCount	Long	6	The number of times the metatable was added to a favorite list. This parameter is returned only when you set the Extension parameter to true and takes effect only when you set the DataSourceType parameter to odps.
IsPartitionTable	Boolean	true	Indicates whether the metatable is partitioned. Valid values: • true: The metatable is partitioned. • false: The metatable is not partitioned.
IsView	Boolean	false	Indicates whether the metatable is a view. Valid values: • true: The metatable is a view. • false: The metatable is not a view.
IsVisible	Integer	1	The scope in which the metatable is visible. Valid values: • 0: indicates that the metatable is visible to workspace members. • 1: indicates that the metatable is visible to users within the tenant. • 2: indicates that the metatable is visible to all tenants. • 3: indicates that the metatable is visible only to the metatable owner.
LastAccessTime	Long	1589870294000	The time when the metatable was last accessed.

Parameter	Type	Example	Description
LastDdlTime	Long	1589870294000	The time when the schema was last changed.
LastModifyTime	Long	1589870294000	The time when the metatable was last updated.
LifeCycle	Integer	5	The lifecycle of the metatable. Unit: days.
Location	String	hdfs://	The storage path of the Hive metadatabase.
OwnerId	String	123	The ID of the metatable owner.
PartitionKeys	String	ab	The partition key of the Hive metatable.
ProjectId	Long	232	The ID of the workspace.
ProjectName	String	test	The name of the workspace.
ReadCount	Long	3	The number of times the metatable was read. This parameter is returned only when you set the Extension parameter to true and takes effect only when you set the DataSourceType parameter to odps.
TableGuid	String	odps.engine_name.table_name	The GUID of the metatable.
TableName	String	table_name	The name of the metatable.
TenantId	Long	12345	The ID of the tenant.
ViewCount	Long	2	The number of times the metatable was viewed. This parameter is returned only when you set the Extension parameter to true and takes effect only when you set the DataSourceType parameter to odps.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.

Parameter	Type	Example	Description
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0bc1411515937	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaTableBasicInfo
&RegionId=cn-shanghai
&TableGuid=odps.engine_name.table_name
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1411515937</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <IsView>false</IsView>
    <LifeCycle>5</LifeCycle>
    <IsPartitionTable>true</IsPartitionTable>
    <ProjectName>test</ProjectName>
    <LastAccessTime>1589870294000</LastAccessTime>
    <LastModifyTime>1589870294000</LastModifyTime>
    <EnvType>1</EnvType>
    <OwnerId>123</OwnerId>
    <DataSize>10</DataSize>
    <PartitionKeys>ab</PartitionKeys>
    <Comment>test table</Comment>
    <ColumnCount>3</ColumnCount>
    <ClusterId>abc</ClusterId>
    <LastDdlTime>1589870294000</LastDdlTime>
    <CreateTime>1589870294000</CreateTime>
    <DatabaseName>abc</DatabaseName>
    <ProjectId>232</ProjectId>
    <ViewCount>2</ViewCount>
    <Caption>displayName</Caption>
    <TableName>table_name</TableName>
    <TenantId>12345</TenantId>
    <TableGuid>odps.engine_name.table_name</TableGuid>
    <FavoriteCount>6</FavoriteCount>
    <IsVisible>1</IsVisible>
    <ReadCount>3</ReadCount>
    <Location>hdfs://</Location>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```


`JSON` format

```
{
    "RequestId": "0bc1411515937",
    "HttpStatusCode": 200,
    "Data": {
        "IsView": false,
        "LifeCycle": 5,
        "IsPartitionTable": true,
        "ProjectName": "test",
        "LastAccessTime": 1589870294000,
        "LastModifyTime": 1589870294000,
        "EnvType": 1,
        "OwnerId": 123,
        "DataSize": 10,
        "PartitionKeys": "ab",
        "Comment": "test table",
        "ColumnCount": 3,
        "ClusterId": "abc",
        "LastDdlTime": 1589870294000,
        "CreateTime": 1589870294000,
        "DatabaseName": "abc",
        "ProjectId": 232,
        "ViewCount": 2,
        "Caption": "Display name",
        "TableName": "table_name",
        "TenantId": 12345,
        "TableGuid": "odps.engine_name.table_name",
        "FavoriteCount": 6,
        "IsVisible": 1,
        "ReadCount": 3,
        "Location": "hdfs://"
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```


Error codes

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HttpCode	Error code	Error message	Description
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system failed to obtain a compute engine instance based on the specified MaxCompute project.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because the specified table does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the specified app GUID is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.

HttpCode	Error code	Error message	Description
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object that you query does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaTableBasicInfo operation, see Examples of DataWorks API operations.

3.7. GetMetaTableColumn

Queries the field information of a metatable.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableColumn	The operation that you want to perform. Set the value to **GetMetaTableColumn**.
TableGuid	String	Yes	odps.engine_name.table_name	The GUID of the metatable. You can call the GetMetaDBTableList operation to query the GUID of the metatable.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
PageNum	Integer	No	1	The number of the page to return.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ClusterId	String	No	C-010A704DA760****	The ID of the E-MapReduce (EMR) cluster. You can log on to the EMR console to obtain the ID.
DatabaseName	String	No	abc	The name of the metadatabase of the EMR cluster. You can call the ListMetaDB operation to query the name.
TableName	String	No	abc	The name of the metatable in the EMR cluster. You can call the GetMetaDBTableList operation to query the name.
DataSourceType	String	No	emr	The type of the data source. Only emr is supported.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
ErrorMessage	String	The connection does not exist.	The error message.
RequestId	String	0bc1ec92159376	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Data	Object		The business data.
PageNum	Integer	1	The page number of the returned page.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Long	100	The total number of fields.
ColumnList	Array of ColumnList		The information of fields.
ColumnGuid	String	odps.engine_name.table_name.name	The GUID of the field.
ColumnName	String	name	The name of the field.
IsPartitionColumn	Boolean	false	Indicates whether the field is a partition field. Valid values: • true: The field is a partition field. • false: The field is not a partition field.
Comment	String	comment	The remarks of the field.
ColumnType	String	string	The data type of the field.
IsPrimaryKey	Boolean	false	Indicates whether the field is the primary key. Valid values: • true: The field is the primary key. • false: The field is not the primary key.
Position	Integer	1	The ordinal number of the field.
Caption	String	data column	The description of the field.
IsForeignKey	Boolean	true	Indicates whether the field is a foreign key. Valid values: • true: The field is a foreign key. • false: The field is not a foreign key.
RelationCount	Long	2	The number of times the field is read.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaTableColumn
&TableGuid=odps.engine_name.table_name
&PageNum=1
&PageSize=10
&ClusterId=C-010A704DA760****
&DatabaseName=abc
&TableName=abc
&DataSourceType=emr
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetMetaTableColumnResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0bc1ec92159376</RequestId>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Data>
        <PageNum>1</PageNum>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <ColumnList>
            <ColumnGuid>odps.engine_name.table_name.name</ColumnGuid>
            <ColumnName>name</ColumnName>
            <IsPartitionColumn>false</IsPartitionColumn>
            <Comment>comment </Comment>
            <ColumnType>string</ColumnType>
            <IsPrimaryKey>false</IsPrimaryKey>
            <Position>1</Position>
            <Caption>data column</Caption>
            <IsForeignKey>true</IsForeignKey>
            <RelationCount>2</RelationCount>
        </ColumnList>
    </Data>
</GetMetaTableColumnResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0bc1ec92159376",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Data" : {
    "PageNum" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "ColumnList" : {
      "ColumnGuid" : "odps.engine_name.table_name.name",
      "ColumnName" : "name",
      "IsPartitionColumn" : false,
      "Comment" : "comment",
      "ColumnType" : "string",
      "IsPrimaryKey" : false,
      "Position" : 1,
      "Caption" : "data column",
      "IsForeignKey" : true,
      "RelationCount" : 2
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	The error message returned because the GUID format is invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaTableColumn operation, see Examples of DataWorks API operations.

3.8. GetMetaTablePartition

Queries the partitions of a table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTablePartition	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the table.
PageNumber	Integer	No	1	The number of data pages that are requested.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.

Parameter	Type	Required	Example	Description
ClusterId	String	No	abc	The id of the e-MapReduce cluster. Situation of emr
DatabaseName	String	No	abc	The name of the database.
TableName	String	No	abc	Table name
DataSourceType	String	No	emr	The type of the database engine. Maxcompute or emr

Response parameters

Parameter	Type	Example	Description
Data	Struct		Business data.
DataEntityList	Array of DataEntityList		The request body.
Comment	String	The remarks on the request.	Remarks
CreateTime	Long	1590032868000	The time when the partition was created.
DataSize	Long	19	The size of the partition. Unit: bytes.
ModifiedTime	Long	1590032868000	The time when the partition was modified.
PartitionGuid	String	odps.engine_name.table_name.pt=20170614	The unique ID of the partition.
PartitionLocation	String	abc	The address of the Hive partition.
PartitionName	String	pt=20170614	The name of the partition.
PartitionPath	String	abc	The Directory of the partition.
PartitionType	String	abc	The type of the partition.

Parameter	Type	Example	Description
RecordCount	Long	233	The amount of data in the partition.
TableGuid	String	odps.engine_name.table_name	The globally unique identifier (GUID) of the table.
PageNumber	Integer	1	The number of data pages that are requested.
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Long	100	The total number of partitions.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=GetMetaTablePartition &RegionId=cn-shanghai &TableGuid=odps.engine_name.table_name &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0bc1ec92159376 </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <DataEntityList> <PartitionName> pt=20170614 </PartitionName> <PartitionGuid> |</PartitionGuid> <Comment> remarks </Comment> <TableGuid> odps.engine_name.table_name </TableGuid> <ModifiedTime> 1590032868000 </ModifiedTime> <CreateTime> 1590032868000 </CreateTime> <DataSize> 19 </DataSize> <PartitionPath> abc </PartitionPath> <PartitionType> abc </PartitionType> <RecordCount> 233 </RecordCount> <PartitionLocation> abc </PartitionLocation> </DataEntityList> </Data> <ErrorCode> invalid.tenant.connectionnotexists </ErrorCode> <ErrorMessage> The connection does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{"RequestId": "0 bc1ec92159376", "HttpStatusCode": 200, "Data": { "TotalCount": 100, "PageSize": 10, "PageNumber": 1, "dataentilist": { "PartitionName": "pt=20170614", "PartitionGuid": "odps.engine_name.table_name.pt=20170614", "" Comment ": " Remarks ", " TableGuid ": " odps.engine_name.table_name ", " ModifiedTime": 1590032868000, "CreateTime": 1590032868000, "DataSize": 19, "PartitionPath": "abc", "PartitionType": "abc", "RecordCount": 233, "PartitionLocation": "abc" } }, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", "ErrorMessage": " The connection does not exist.", "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

HttpCode	Error codes	Error message	Description
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.9. GetMetaTableOutput

Queries the node output information in a metatable. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableOutput	The operation that you want to perform.
EndDate	String	Yes	2020-05-27	The end of the time range to query.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
StartDate	String	Yes	2020-06-27	The beginning of the time range to query.
TableGuid	String	Yes	odps.engine_name.table_name	The GUID of the table.
PageNumber	Integer	No	1	The number of the page to return. Valid values: 1 to 30. Default value: 1.
PageSize	Integer	No	10	The number of entries to return on each page. Default value:10. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The returned data.
DataEntityList	Array of DataEntityList		The node output information about the metatable.
EndTime	String	1511107200000	The end time of the node.
ProjectId	Long	333	The ID of the workspace.
StartTime	String	1511107200000	The start time of the node.
TableGuid	String	odps.engine_name.table_name	The GUID of the table.
TaskId	String	32	The ID of a node.

Parameter	Type	Example	Description
TaskInstanceId	Long	3521	The ID of the instance.
WaitTime	String	323	The time spent waiting for available resources to run the node.
PageNumber	Integer	1	The number of the page returned. Valid values: 1 to 30. Default value: 1.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Long	100	The total number of metatables.
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0bc1ec92159376****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaTableOutput
&EndDate=2020-05-27
&RegionId=cn-shanghai
&StartDate=2020-06-27
&TableGuid=odps.engine_name.table_name
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TotalCount>100</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
    <DataEntityList>
        <TaskInstanceId>3521</TaskInstanceId>
        <TableGuid>odps.engine_name.table_name</TableGuid>
        <TaskId>32</TaskId>
        <EndTime>1511107200000</EndTime>
        <StartTime>1511107200000</StartTime>
        <ProjectId>333</ProjectId>
        <WaitTime>323</WaitTime>
    </DataEntityList>
</Data>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0bc1ec92159376****",
    "HttpStatusCode": 200,
    "Data": {
        "TotalCount": 100,
        "PageSize": 10,
        "PageNumber": 1,
        "DataEntityList": {
            "TaskInstanceId": 3521,
            "TableGuid": "odps.engine_name.table_name",
            "TaskId": 32,
            "EndTime": 1511107200000,
            "StartTime": 1511107200000,
            "ProjectId": 333,
            "WaitTime": 323
        }
    },
    "ErrorCode": "1031203110005",
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain a compute engine instance based on the specified MaxCompute project.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the specified app GUID is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaTableOutput operation, see Examples of DataWorks API operations.

3.10. GetMetaTableChangeLog

Queries the change logs of a metatable. This operation will be replaced soon. We recommend that you do not call this operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableChangeLog	The operation that you want to perform. Set the value to **GetMetaTableChangeLog**.
PageNumber	Integer	No	1	The number of the page to return.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the table. Specify the GUID in the format of odps.projectName.tableName. You can call the GetMetaDBTableList operation to query the GUID of the table. **Note** To query the change logs of a MaxCompute table, you must call the GetMetaTableChangeLog operation.
ChangeType	String	No	ALTER_TABLE	The type of the change. Valid values: CREATE_TABLE, ALTER_TABLE, DROP_TABLE, ADD_PARTITION, and DROP_PARTITION.
ObjectType	String	No	TABLE	The entity on which the change is made. Valid values: TABLE and PARTITION.
StartDate	String	No	2020-06-01 00:00:00	The beginning of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format. • By default, the system uses the current time as the value of this parameter if the time that you specify is invalid. • If both the values of the StartDate and EndDate parameters are invalid, the system automatically queries the change logs that are generated within the last 30 days.

Parameter	Type	Required	Example	Description
EndDate	String	No	2020-06-02 00:00:00	The end of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format. • By default, the system uses the current time as the value of this parameter if the time that you specify is invalid. • If both the values of the StartDate and EndDate parameters are invalid, the system automatically queries the change logs that are generated within the last 30 days.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Data	Object		The business data returned.
PageNumber	Integer	10	The page number of the returned page.
PageSize	Integer	1	The number of entries returned per page. Default value: 10. Maximum value: 100.

Parameter	Type	Example	Description
TotalCount	Long	10	The total number of returned entries.
DataEntityList	Array of DataEntityList		The information about the change logs of the metatable.
ObjectType	String	TABLE	The entity on which the change was made. Valid values: TABLE and PARTITION.
ModifiedTime	Long	1590722845000	The last time when the metatable was modified.
CreateTime	Long	1590722845000	The time when the metatable was created.
ChangeContent	String	"[{\"action\":\"ADD_COLUMN\",\"value\":[{\"originName\":\"\",\"originType\":\"\",\"originComment\":\"\",\"name\":\"id\",\"type\":\"struct<name:string>\",\"comment\":\"\"}]}]",	The content of the change.
Operator	String	abc	The name of the operator.
ChangeType	String	CREATE_TABLE	The type of the change.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaTableChangeLog
&RegionId=cn-shanghai
&TableGuid=odps.engine_name.table_name
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetMetaTableChangeLogResponse>
    <RequestId>0bc1ec92159376</RequestId>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>
        <TotalCount>10</TotalCount>
        <PageSize>1</PageSize>
        <PageNumber>10</PageNumber>
        <DataEntityList>
            <Operator>abc</Operator>
            <ObjectType>TABLE</ObjectType>
            <ChangeContent>[{"action":"ADD_COLUMN","value":[{"originName":"","originType":""
,"originComment":"","name":"id","type":"struct&lt;name:string&gt;","comment":""}]}]</ChangeC
ontent>
            <ModifiedTime>1590722845000</ModifiedTime>
            <ChangeType>CREATE_TABLE</ChangeType>
            <CreateTime>1590722845000</CreateTime>
        </DataEntityList>
    </Data>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
</GetMetaTableChangeLogResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0bc1ec92159376",
  "HttpStatusCode" : 200,
  "Data" : {
    "TotalCount" : 10,
    "PageSize" : 1,
    "PageNumber" : 10,
    "DataEntityList" : {
      "Operator" : "abc",
      "ObjectType" : "TABLE",
      "ChangeContent" : "[{\"action\":\"ADD_COLUMN\",\"value\":[{\"originName\":\"\",\"origi
nType\":\"\",\"originComment\":\"\",\"name\":\"id\",\"type\":\"struct&lt;name:string&gt;\",\
"comment\":\"\"}]}]",
      "ModifiedTime" : 1590722845000,
      "ChangeType" : "CREATE_TABLE",
      "CreateTime" : 1590722845000
    }
  },
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain a compute engine instance based on the specified MaxCompute project.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaTableChangeLog operation, see Examples of DataWorks API operations.

3.11. GetMetaTableIntroWiki

Queries the instructions on how to use a table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableIntroWiki	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the table.

Parameter	Type	Required	Example	Description
WikiVersion	Long	No	1	The version of the instructions.

Response parameters

Parameter	Type	Example	Description
Data	Struct		Business data.
Content	String	# Business requirements \n\n<a name="xiw5n "	The description of the table.
CreateTime	Long	1584444247000	The time when the table was created.
Creator	String	abc	The creator of the table.
CreatorName	String	abc	The name of the creator of the table.
ModifiedTime	Long	1584444247000	The time when the table was modified.
Version	Long	1	The version number.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetMetaTableIntroWiki &RegionId=cn-shanghai &TableGuid=odps.engine_name.table_name &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0bc1ec92159376**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <ModifiedTime> 1584444247000 </ModifiedTime> <Version> 1 </Version> <Content># business needs \n\n<a name="xiw5n" </Content> <CreateTime> 1584444247000 </CreateTime> <Creator> abc </Creator> <CreatorName> abc </CreatorName> </Data> <ErrorCode> invalid.tenant.connectionnotexists </ErrorCode> <ErrorMessage> The connection does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{"RequestId": "0 bc1ec92159376", "HttpStatusCode": 200, "Data": { "ModifiedTime": 158 4 4247,000, "Version": 1, "Content": "# business requirements \\n\\n&lt;a name=&quot;xiw5n&quot;", "CreateTime": 15844247000, "Creator": "abc", "CreatorName": "abc" }, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", " ErrorMessage": "The connection does not exist.", "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.

HttpCode	Error codes	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.12. GetMetaTableLineage

Queries the lineage of a metatable.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableLineage	The operation that you want to perform. Set the value to **GetMetaTableLineage**.
TableGuid	String	Yes	odps.engine_name.table_name	The GUID of the metatable.
Direction	String	Yes	up	Specifies whether to query the ancestor or descendant lineage of the field. The value up indicates the ancestor lineage. The value down indicates the descendant lineage.
NextPrimaryKey	String	No	odps.engine_name.table_name1	The logic of paging. Set this parameter based on the value of the response parameter NextPrimaryKey when the value of the response parameter HasNext is true in the last query.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
RegionId	String	Yes	cn-shanghai	The region ID.
ClusterId	String	No	abc	The ID of the E-MapReduce (EMR) cluster. Set this parameter only when you query data in an EMR compute engine instance.
DatabaseName	String	No	abc	The name of the metadatabase.
TableName	String	No	abc	The name of the metatable.
DataSourceType	String	No	emr	The type of the data source. Valid values: odps and emr.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.

Parameter	Type	Example	Description
ErrorMessage	String	The connection does not exist.	The error message.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Data	Object		The business data.
NextPrimaryKey	String	odps.tt.2	The paging information.
HasNext	Boolean	true	Indicates whether the next page has more query results.
DataEntityList	Array of DataEntityList		The information about the metatable.
TableName	String	name	The name of the metatable.
TableGuid	String	odps.tt.name	The GUID of the metatable.
CreateTimestamp	Long	1638720736000	The time when the metatable was created.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaTableLineage
&TableGuid=odps.engine_name.table_name
&Direction=up
&NextPrimaryKey=odps.engine_name.table_name1
&PageSize=10
&ClusterId=abc
&DatabaseName=abc
&TableName=abc
&DataSourceType=emr
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetMetaTableLineageResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0bc1ec92159376</RequestId>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Data>
        <NextPrimaryKey>odps.tt.2</NextPrimaryKey>
        <HasNext>true</HasNext>
        <DataEntityList>
            <TableName>name</TableName>
            <TableGuid>odps.tt.name</TableGuid>
            <CreateTimestamp>1638720736000</CreateTimestamp>
        </DataEntityList>
    </Data>
</GetMetaTableLineageResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0bc1ec92159376",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Data" : {
    "NextPrimaryKey" : "odps.tt.2",
    "HasNext" : true,
    "DataEntityList" : {
      "TableName" : "name",
      "TableGuid" : "odps.tt.name",
      "CreateTimestamp" : 1638720736000
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because the metatable does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	The error message returned because the GUID format is invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
400	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about the example on how to use the GetMetaTableLineage operation, see Examples of DataWorks API operations.

3.13. GetMetaColumnLineage

Queries the lineage of a field.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaColumnLineage	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ColumnGuid	String	Yes	odps.engine_name.table_name.column_name	The unique identifier of the field.
Direction	String	Yes	up	Upstream and downstream direction of the field: up indicates upstream, down indicates downstream.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
PageNum	Integer	No	1	The number of data pages that are requested.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ClusterId	String	No	abc	The ID of the e-MapReduce cluster.
DatabaseName	String	No	abc	The name of the database.
TableName	String	No	abc	The name of the table.
ColumnName	String	No	abc	The name of the field.
DataSourceType	String	No	emr	The data type. Valid values: maxcompute and emr.

Response parameters

Parameter	Type	Example	Description
Data	Struct		Business data.
DataEntityList	Array of DataEntityList		The list of instance data.
ClusterId	String	abc	The id of the e-MapReduce cluster.

Parameter	Type	Example	Description
ColumnGuid	String	odps.engine_name.table_name.1	The unique identifier of the field.
ColumnName	String	1	The name of the field.
DatabaseName	String	abc	The name of the database.
TableName	String	abc	Table Name
PageNum	Integer	1	The number of data pages that are requested.
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Long	20	The total number of fields.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetMetaColumnLineage &ColumnGuid=odps.engine_name.table_name.column_name &Direction=up &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data> <TotalCount>20</TotalCount> <PageNum>1</PageNum> <PageSize>10</PageSize> <DataEntityList> <ColumnName>1</ColumnName> <TableName>abc</TableName> <ColumnGuid>odps.engine_name.table_name.1</ColumnGuid> <ClusterId>abc</ClusterId> <DatabaseName>abc</DatabaseName> </DataEntityList> </Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <Success>true</Success>
```

JSON Format

```
{ "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": { "TotalCount": 20, "PageNum": 1, "PageSize": 10, "DataEntityList": { "ColumnName": 1, "TableName": "abc", "ColumnGuid": "odps.engine_name.table_name.1", "ClusterId": "abc", "DatabaseName": "abc" } }, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist. ", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.

HttpCode	Error codes	Error message	Description
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.14. CreateMetaCategory

Creates a category.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateMetaCategory	The operation that you want to perform.

Parameter	Type	Required	Example	Description
Name	String	Yes	category_name	The name of the class.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
Comment	String	No	category 1	The description of the category.
ParentId	Long	No	0	The ID of the parent class.

Response parameters

Parameter	Type	Example	Description
Data	Struct		Category information.
CategoryId	Long	223	Class ID.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateMetaCategory &Name=category_name &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data> <CategoryId>223</CategoryId> </Data> <Success>true</Success>
```

JSON Format

```
{ "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": { "CategoryId": 223 }, "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.

HttpCode	Error codes	Error message	Description
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.
403	Invalid.Meta.CategoryForbidden	Failed to delete the category. The current category is associated with a table and cannot be operated.	Failed to delete a category because an associated table exists for the category.
400	Invalid.Meta.CategoryIllegalDepth	A category can contain a maximum of 4 levels.	The category level exceeds 4 levels.
403	Invalid.Meta.CategoryIllegalTenant	The tenant ID is different in the parent and child categories.	Tenant IDs for parent-child classes are inconsistent.
400	Invalid.Meta.CategoryNameDuplicate	The category name is duplicated at this level.	Duplicate category names at the same level.
500	Invalid.Meta.CategoryRelationDuplicate"	The table is already bound to the category.	The category is already associated with the table.

Go to the Error Center .For more information, see error codes.

3.15. DeleteMetaCategory

Deletes a category.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteMetaCategory	The operation that you want to perform.
CategoryId	Long	Yes	23	Class ID.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Business data.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=DeleteMetaCategory &CategoryId=23 &RegionId=cn-shanghai &
<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": true, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.

HttpCode	Error codes	Error message	Description
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
403	Invalid.Meta.CategoryForbidden	Failed to delete the category. The current category is associated with a table and cannot be operated.	Failed to delete a category because an associated table exists for the category.
400	Invalid.Meta.CategoryIllegalDepth	A category can contain a maximum of 4 levels.	The category level exceeds 4 levels.
403	Invalid.Meta.CategoryIllegalTenant	The tenant ID is different in the parent and child categories.	Tenant IDs for parent-child classes are inconsistent.
400	Invalid.Meta.CategoryNameDuplicate	The category name is duplicated at this level.	Duplicate category names at the same level.
500	Invalid.Meta.CategoryRelationDuplicate"	The table is already bound to the category.	The category is already associated with the table.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.16. UpdateMetaCategory

Updates a category.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMetaCategory	The operation that you want to perform.
CategoryId	Long	Yes	2	Class ID.
Name	String	Yes	category name	The name of the class.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
Comment	String	No	category name	The description of the category.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the category update was successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UpdateMetaCategory &CategoryId=2 &Name=category name &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": true, "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.

HttpCode	Error codes	Error message	Description
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
403	Invalid.Meta.CategoryForbidden	Failed to delete the category. The current category is associated with a table and cannot be operated.	Failed to delete a category because an associated table exists for the category.
400	Invalid.Meta.CategoryIllegalDepth	A category can contain a maximum of 4 levels.	The category level exceeds 4 levels.
403	Invalid.Meta.CategoryIllegalTenant	The tenant ID is different in the parent and child categories.	Tenant IDs for parent-child classes are inconsistent.
400	Invalid.Meta.CategoryNameDuplicate	The category name is duplicated at this level.	Duplicate category names at the same level.
500	Invalid.Meta.CategoryRelationDuplicate"	The table is already bound to the category.	The category is already associated with the table.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.17. GetMetaCategory

Queries the category tree.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaCategory	The operation that you want to perform.
ParentCategoryId	Long	Yes	333	The ID of the category tree.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
PageNum	Integer	No	1	The number of data pages that are requested.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
Data	Struct		Business data.
DataEntityList	Array of DataEntityList		The list of instances.
CategoryId	Long	133	Class ID.
Comment	String	category 1	The description of the category.
CreateTime	Long	1541576644000	The time when the class was created.

Parameter	Type	Example	Description
Depth	Integer	1	The number of layers of the class.
LastOperatorId	String	12345	The ID of the user that performed the last operation.
ModifiedTime	Long	1541576644000	The time when the class was modified.
Name	String	category 1	The name of the class.
OwnerId	String	123	The ID of the category owner.
ParentCategoryId	Long	12	The ID of the parent class.
PageNum	Integer	1	The number of data pages that are requested.
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Long	10	The total number of classes.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetMetaCategory &ParentCategoryId=333 &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data> <TotalCount>10</TotalCount> <PageNum>1</PageNum> <PageSize>10</PageSize> <DataEntityList> <CategoryId>133</CategoryId> <Comment>category 1</Comment> <ModifiedTime>1541576644000</ModifiedTime> <OwnerId>123</OwnerId> <LastOperatorId>12345</LastOperatorId> <CreateTime>1541576644000</CreateTime> <ParentCategoryId>12</ParentCategoryId> <Depth>1</Depth> <Name>category 1</Name> </DataEntityList> </Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": { "TotalCount": 10, "PageNum": 1, "PageSize": 10, "DataEntityList": { "CategoryId": 133, "Comment": "category 1", "ModifiedTime": 1541576644000, "OwnerId": "123", "LastOperatorId": "12345", "CreateTime": 1541576644000, "ParentCategoryId": 12, "Depth": 1, "Name": "category 1" } }, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

HttpCode	Error codes	Error message	Description
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.
403	Invalid.Meta.CategoryForbidden	Failed to delete the category. The current category is associated with a table and cannot be operated.	Failed to delete a category because an associated table exists for the category.
400	Invalid.Meta.CategoryIllegalDepth	A category can contain a maximum of 4 levels.	The category level exceeds 4 levels.
403	Invalid.Meta.CategoryIllegalTenant	The tenant ID is different in the parent and child categories.	Tenant IDs for parent-child classes are inconsistent.
400	Invalid.Meta.CategoryNameDuplicate	The category name is duplicated at this level.	Duplicate category names at the same level.
500	Invalid.Meta.CategoryRelationDuplicate"	The table is already bound to the category.	The category is already associated with the table.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.

HttpCode	Error codes	Error message	Description
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.18. GetMetaTableListByCategory

Queries tables in a specified category.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableListByCategory	The operation that you want to perform.
CategoryId	Long	Yes	23	Class ID, which you can call GetMetaCategory Gets the class ID.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
PageNumber	Integer	No	1	The number of data pages that are requested.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
Data	Struct		Business data.
PageNumber	Integer	1	The number of data pages that are requested.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TableGuidList	List	odps.engine_name.table_name	The list of tables.
TotalCount	Long	20	The total number of tables.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetMetaTableListByCategory &CategoryId=23 &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data> <TableGuidList>odps.engine_name.table_name</TableGuidList> <TotalCount>20</TotalCount> <PageSize>10</PageSize> <PageNumber>1</PageNumber> </Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": { "TableGuidList": "odps.engine_name.table_name", "TotalCount": 20, "PageSize": 10, "PageNumber": 1 }, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Success": true }
```


Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The current user is not the owner of any of the tenants.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	Failed to get compute engine based on maxcompute project {0}.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The interface network is disconnected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	Resolve the error based on the error message.

HttpCode	Error codes	Error message	Description
403	Invalid.Meta.CategoryForbidden	Failed to delete the category. The current category is associated with a table and cannot be operated.	Failed to delete a category because an associated table exists for the category.
400	Invalid.Meta.CategoryIllegalDepth	A category can contain a maximum of 4 levels.	The category level exceeds 4 levels.
403	Invalid.Meta.CategoryIllegalTenant	The tenant ID is different in the parent and child categories.	Tenant IDs for parent-child classes are inconsistent.
400	Invalid.Meta.CategoryNameDuplicate	The category name is duplicated at this level.	Duplicate category names at the same level.
500	Invalid.Meta.CategoryRelationDuplicate"	The table is already bound to the category.	The category is already associated with the table.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because one or more request parameters are invalid.
400	InvalidParameter.Meta.GuidFormat	The GUID format is invalid.	Bad Guid information.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the App parameter is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	Date format error.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The pagination information is incorrect.
400	InvalidParameter.Meta.NotExist	The object does not exist.	Data does not exist.

Go to the Error Center .For more information, see error codes.

3.19. AddToMetaCategory

Adds a table to a specified category.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AddToMetaCategory	The operation that you want to perform.
CategoryId	Long	Yes	5	Class ID.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the table.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the table was added to the specified category.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=AddToMetaCategory &CategoryId=5 &RegionId=cn-shanghai &TableGuid=odps.engine_name.table_name &<common request parameters>
```

Sample success responses

`XML` format

```
    <RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</
Data> <Success>true</Success>
```

JSON Format

```
    { "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": true, "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center .For more information, see error codes.

3.20. DeleteFromMetaCategory

Removes a table from a specified category.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteFromMetaCategory	The operation that you want to perform.
CategoryId	Long	Yes	5	Class ID.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the table.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the table was deleted.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0bc1ec92159376	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteFromMetaCategory &CategoryId=5 &RegionId=cn-shanghai &TableGuid=odps.engine_name.table_name &<common request parameters>
```

Sample success responses

`XML` format

```
    <RequestId>0bc1ec92159376</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</
Data> <Success>true</Success>
```

JSON Format

```
    { "RequestId": "0bc1ec92159376", "HttpStatusCode": 200, "Data": true, "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center .For more information, see error codes.

3.21. CreateTable

Creates a MaxCompute table or view.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateTable	The operation that you want to perform. Set the value to **CreateTable**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
IsView	Integer	No	0	Specifies whether to create a view or table. • 0: Create a table. • 1: Create a view.
Visibility	Integer	No	1	Specifies whether the table or workspace is visible: • 0: Neither the table nor workspace is visible. • 1: The table and workspace are visible. • 2: Only the workspace is visible.
LifeCycle	Integer	No	10	The lifecycle of the table. By default, this parameter is left empty, which indicates that the table is permanently stored.
CategoryId	Long	No	101	The ID of the associated category. You can call the GetMetaCategory operation to query the ID of the category that can be associated.
LogicalLevelId	Long	No	101	The ID of the logical level.
PhysicsLevelId	Long	No	101	The ID of the physical level.

Parameter	Type	Required	Example	Description
ExternalTableType	String	No	0	The storage type of the external table. Valid values: • 0: Object Storage Service (OSS) • 1: Tablestore • 2: Volume • 3: MySQL
Location	String	No	location	The storage location of the external table.
ProjectId	Long	No	23	The ID of the DataWorks workspace.
TableName	String	Yes	tableName1	The name of the table.
Endpoint	String	No	odps://abc	The endpoint of MaxCompute.
EnvType	Integer	No	1	The environment type of the DataWorks workspace. Valid values: • 0: development environment • 1: production environment
AppGuid	String	No	odps.test	The globally unique identifier (GUID) of the MaxCompute project. Specify the GUID in the odps.{projectName} format.
Comment	String	No	Comment	The comment.

Parameter	Type	Required	Example	Description
HasPart	Integer	No	0	Specifies whether the MaxCompute table is a partitioned table. Valid values: 1 and 0. The value 1 indicates that the MaxCompute table is a partitioned table. The value 0 indicates that the MaxCompute table is not a partitioned table. This parameter is deprecated. Do not use this parameter. The Column.N.isPartitionCol parameter is used instead of the HasPart parameter to specify whether the MaxCompute table is a partitioned table. If the Column.N.isPartitionCol parameter is set to 1, the MaxCompute table is a partitioned table.
ClientToken	String	No	Reserved parameter	A reserved parameter.
Columns.N.ColumnNameCn	String	No	Display name	The display name of the field.
Columns.N.ColumnName	String	Yes	columnName1	The name of the field. You can call the CreateTable operation to configure a maximum of 100 fields.
Columns.N.Comment	String	No	Comment	The comment of the field.
Columns.N.ColumnType	String	Yes	string	The data type of the field.
Columns.N.SeqNumber	Integer	No	1	The sequence number of the field. You can use this parameter to specify how fields are sorted in a table. By default, fields are sorted in the order in which requests are created. If the field is a partition field, this parameter is not supported.
Columns.N.Length	Integer	No	10	The length of the field.

Parameter	Type	Required	Example	Description
Columns.N.IsPartitionCol	Boolean	No	0	Specifies whether the current field is a partition field. Valid values: • 1: The current field is a partition field. • 0: The current field is not a partition field.
Themes.N.ThemeId	Long	No	101	The ID of the topic.
Themes.N.ThemeLevel	Integer	No	101	The level that corresponds to the topic ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abcdef	The ID of the request.
TaskInfo	Object		The information about the request task. After a request task is submitted, it is divided into multiple subtasks that are run in sequence. After the current subtask is complete, the next subtask starts to run. After all subtasks are complete, the request task is complete. If a request task is aborted due to one of the following issues, address the issue based on the error code and initiate the request task again: • The request task fails to be submitted. • After the request task is submitted, a subtask fails to run.
Status	String	success	The status of the current subtask. Valid values: • operating: The subtask is running. • success: The subtask succeeds. • failure: The subtask fails to run. For more information about the error details, see the Content parameter.

Parameter	Type	Example	Description
NextTaskId	String	abc1	The ID of the subtask that you want to run. If this parameter is left empty, all subtasks are complete. You can call the GetDDLJobStatus operation to query the status of the subtask based on the subtask ID.
TaskId	String	abc	The ID of the current subtask.
Content	String	success	Details about the status of the current subtask. Valid values: • If the current subtask succeeds, success is returned. • If the current subtask fails, the error details are displayed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateTable
&Columns.1.ColumnName=columnName1
&Columns.1.ColumnType=string
&RegionId=cn-shanghai
&TableName=tableName1
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateTableResponse>
    <TaskInfo>
        <Status>success</Status>
        <TaskId>abc</TaskId>
        <Content>success</Content>
        <NextTaskId>abc1</NextTaskId>
    </TaskInfo>
    <RequestId>abcdef</RequestId>
</CreateTableResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TaskInfo" : {
    "Status" : "success",
    "TaskId" : "abc",
    "Content" : "success",
    "NextTaskId" : "abc1"
  },
  "RequestId" : "abcdef"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

3.22. UpdateTable

Updates a MaxCompute table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateTable	The operation that you want to perform. Set the value to **UpdateTable**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
IsView	Integer	No	0	Specifies whether the table is a view. Valid values: 0 and 1. The value 0 indicates that the table is not a view. The value 1 indicates that the table is a view. This parameter is deprecated. Do not use this parameter.
Visibility	Integer	No	1	The scope in which the table is visible. Valid values: 0, 1, and 2. The value 0 indicates that the table is invisible to all workspace members. The value 1 indicates that the table is visible to all workspace members. The value 2 indicates that the table is visible to workspace members.
LifeCycle	Integer	No	10	The lifecycle of the table. Unit: days. If this parameter is left empty, the table is permanently stored.
CategoryId	Long	No	101	The ID of the associated category.

Parameter	Type	Required	Example	Description
LogicalLevelId	Long	No	101	The ID of the logical level.
PhysicsLevelId	Long	No	101	The ID of the physical level.
ExternalTableType	String	No	1	The type of the external table. Valid values: 0, 1, 2, and 3. The value 0 indicates that the external table is an OSS external table. The value 1 indicates that the external table is a Tablestore external table. The value 2 indicates that the external table is a volume external table. The value 3 indicates that the external table is a MySQL external table. This parameter is deprecated. Do not use this parameter.
Location	String	No	location	The storage location of the external table. This parameter is deprecated. Do not use this parameter.
ProjectId	Long	No	101	The ID of the DataWorks workspace. You can log on to the DataWorks console to obtain the ID of the DataWorks workspace.
TableName	String	Yes	abc	The name of the MaxCompute table.
Endpoint	String	No	odps://	The endpoint of MaxCompute. If this parameter is left empty, the endpoint of the MaxCompute project is used.
EnvType	Integer	No	1	The environment of the DataWorks workspace. Valid values: 0 and 1. The value 0 indicates the development environment. The value 1 indicates the production environment.
AppGuid	String	No	odps.test	The globally unique identifier (GUID) of the MaxCompute project. Specify the GUID in the odps.{projectName} format.

Parameter	Type	Required	Example	Description
CreateIfNotExists	Boolean	No	true	Specifies whether the table exists. Valid values: • true: The table exists. • false: The table does not exist. This parameter is deprecated. Do not use this parameter.
HasPart	Integer	No	0	Specifies whether the table that you want to update is a partitioned table. Valid values: 0 and 1. The value 0 indicates that the table is not a partitioned table. The value 1 indicates that the table is a partitioned table. This parameter is deprecated. Do not use this parameter. The Column.N.isPartitionCol parameter is used instead of the HasPart parameter to specify whether the MaxCompute table is a partitioned table. If the Column.N.isPartitionCol parameter is set to 1, the MaxCompute table is a partitioned table.
Comment	String	No	Comment	The comment.
Columns.N.ColumnNameCn	String	No	Display name	The display name of the field.
Columns.N.ColumnName	String	Yes	abc	The name of the field.
Columns.N.Comment	String	No	Comment	The comment of the field.
Columns.N.ColumnType	String	Yes	string	The type of the field. For more information, see MaxCompute field types.
Columns.N.SeqNumber	Integer	No	1	The sequence number of the field. If the field is a partition field, this parameter is not supported.
Columns.N.Length	Integer	No	10	The length of the field.

Parameter	Type	Required	Example	Description
Columns.N.IsPartitionCol	Boolean	No	0	Specifies whether the field is a partition field. Valid values: 0 and 1. The value 0 indicates that the field is not a partition field. The value 1 indicates that the field is a partition field.
Themes.N.ThemeId	Long	No	101	The ID of the associated topic.
Themes.N.ThemeLevel	Integer	No	101	The level that corresponds to the topic ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abcde	The ID of the request.
TaskInfo	Object		The information about the request task. After a request task is submitted, it is divided into multiple subtasks that are run in sequence. After the current subtask is complete, the next subtask starts to run. After all subtasks are complete, the request task is complete. If a request task is aborted due to one of the following issues, address the issue based on the error code and initiate the request task again: • The request task fails to be submitted. • After the request task is submitted, a subtask fails to run.
Status	String	success	The status of the current subtask. Valid values: • operating: The subtask is running. • success: The subtask succeeds. • failure: The subtask fails to run. For more information about the error details, see the Content parameter.

Parameter	Type	Example	Description
NextTaskId	String	abc1	The ID of the subtask that you want to run. If this parameter is left empty, all subtasks are complete. You can call the GetDDLJobStatus operation to query the status of the subtask based on the subtask ID.
TaskId	String	abc	The ID of the current subtask.
Content	String	success	Details about the status of the current subtask. Valid values: • If the current subtask succeeds, success is returned. • If the current subtask fails, the error details are displayed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateTable
&Columns.1.ColumnName=abc
&Columns.1.ColumnType=string
&RegionId=cn-shanghai
&TableName=abc
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateTableResponse>
    <TaskInfo>
        <Status>success</Status>
        <TaskId>abc</TaskId>
        <Content>success</Content>
        <NextTaskId>abc1</NextTaskId>
    </TaskInfo>
    <RequestId>abcde</RequestId>
</UpdateTableResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TaskInfo" : {
    "Status" : "success",
    "TaskId" : "abc",
    "Content" : "success",
    "NextTaskId" : "abc1"
  },
  "RequestId" : "abcde"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

3.23. UpdateTableAddColumn

Updates the fields in a MaxCompute table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateTableAddColumn	The operation that you want to perform. Set the value to **UpdateTableAddColumn**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
TableGuid	String	Yes	odps.engine_name.table_name	The globally unique identifier (GUID) of the MaxCompute table. Specify the GUID in the odps.projectName.tableName format.
Column.N.ColumnNameCn	String	No	Display name	The display name of the field.
Column.N.ColumnName	String	Yes	abc	The name of the field.
Column.N.Comment	String	No	Comment	The comment of the field.
Column.N.ColumnType	String	Yes	string	The type of the field. For more information, see MaxCompute field types.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abc	The ID of the request.

Parameter	Type	Example	Description
TaskInfo	Object		The information about the request task. After a request task is submitted, it is divided into multiple subtasks that are run in sequence. After the current subtask is complete, the next subtask starts to run. After all subtasks are complete, the request task is complete. If a request task is aborted due to one of the following issues, address the issue based on the error code and initiate the request task again: • The request task fails to be submitted. • After the request task is submitted, a subtask fails to run.
Status	String	success	The status of the current subtask. Valid values: • operating: The subtask is running. • success: The subtask succeeds. • failure: The subtask fails to run. For more information about the error details, see the Content parameter.
NextTaskId	String	abc1	The ID of the subtask that you want to run. If this parameter is left empty, all subtasks are complete. You can call the GetDDLJobStatus operation to query the status of the subtask based on the subtask ID.
TaskId	String	abc2	The ID of the current subtask.
Content	String	success	Details about the status of the current subtask. Valid values: • If the current subtask succeeds, success is returned. • If the current subtask fails, the error details are displayed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateTableAddColumn
&Column.1.ColumnName=abc
&Column.1.ColumnType=string
&RegionId=cn-shanghai
&TableGuid=odps.engine_name.table_name
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateTableAddColumnResponse>
    <TaskInfo>
        <Status>success</Status>
        <TaskId>abc2</TaskId>
        <Content>success</Content>
        <NextTaskId>abc1</NextTaskId>
    </TaskInfo>
    <RequestId>abc</RequestId>
</UpdateTableAddColumnResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TaskInfo" : {
    "Status" : "success",
    "TaskId" : "abc2",
    "Content" : "success",
    "NextTaskId" : "abc1"
  },
  "RequestId" : "abc"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

3.24. DeleteTable

Deletes a MaxCompute table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteTable	The operation that you want to perform.
EnvType	Integer	Yes	1	The type of the DataWorks environment. Valid values: 0 (Development Environment) and 1 (production environment).

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	101	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the event log was recorded.
TableName	String	Yes	table1	The name of the MaxCompute table.
AppGuid	String	No	odps.test	The unique ID of the MaxCompute project. The format is odps.{projectName}.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abcde	The ID of the request.
TaskInfo	Struct		The information about the task for deleting a table.
Content	String	success	The content of the task.
NextTaskId	String	abc1	The ID of the running task.
Status	String	success	The status of completed tasks.
TaskId	String	abc	The ID of the completed task.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteTable &EnvType=1 &ProjectId=101 &RegionId=cn-shanghai &TableName=table1 &<common request parameters>
```

Sample success responses

`XML` format

```
<TaskInfo> <Status>success</Status> <TaskId>abc</TaskId> <Content>success</Content> <NextTaskId>abc1</NextTaskId> </TaskInfo> <RequestId>abcde</RequestId>
```

JSON Format

```
{ "TaskInfo": { "Status": "success", "TaskId": "abc", "Content": "success", "NextTaskId": "abc1" }, "RequestId": "abcde" }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center .For more information, see error codes.

3.25. GetDDLJobStatus

Queries the task status of creating, updating, or deleting a table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDDLJobStatus	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region where the event log was recorded.
TaskId	String	Yes	abc	The ID of the DDL task.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the task.
Content	String	success	The content of the task.
NextTaskId	String	abc1	The ID of the task. If you do not specify the parameter, all tasks have been completed.
Status	String	success	The status of the task.
TaskId	String	abc	The ID of the processing task.
RequestId	String	abc	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetDDLJobStatus &RegionId=cn-shanghai &TaskId=abc &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abc</RequestId> <Data> <Status>success</Status> <TaskId>abc</TaskId> <Content>success</Content> <NextTaskId>abc1</NextTaskId> </Data>
```

`JSON` Format

```
    { "RequestId": "abc", "Data": { "Status": "success", "TaskId": "abc", "Content": "succe
ss", "NextTaskId": "abc1" } }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center .For more information, see error codes.

3.26. UpdateMetaTable

Updates the metadata information about a table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMetaTable	The operation that you want to perform.

Parameter	Type	Required	Example	Description
EnvType	Integer	Yes	1	DataWorks environments: 0 (Development Environment) and 1 (production environment).
ProjectId	Long	Yes	101	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the event log was recorded.
TableName	String	Yes	table1	The name of the table.
TableGuid	String	No	odps.test.table1	The guid of the table. Format: odps.{projectName}.{tableName}.
NewOwnerId	String	No	12345	Specifies the new OwnerId. The value is not updated if the parameter is empty.
AddedLabels	String	No	a,b,c	The names of the tags to be added. Separate the names with commas (,).
RemovedLabels	String	No	a,b,c	The names of the tags to be deleted. Separate the names with commas (,).
CategoryId	Long	No	101	The ID of the category with which you want to associate the EIP.
Visibility	Integer	No	1	Edits the visibility of the table, including 0 (invisible), 1 (visible), and 2 (visible in the workspace).
Caption	String	No	Display Name	The display name of the table.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abcde	The ID of the request.

Parameter	Type	Example	Description
UpdateResult	Boolean	true	Indicates whether the DQC rule has been changed.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UpdateMetaTable &EnvType=1 &ProjectId=101 &RegionId=cn-shanghai &TableName=table1 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcde</RequestId> <UpdateResult>true</UpdateResult>
```

`JSON` Format

```
{ "RequestId": "abcde", "UpdateResult": true }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center .For more information, see error codes.

3.27. UpdateMetaTableIntroWiki

Updates the instructions on how to use a table. If no instruction on how to use the table is available, the instructions that are specified by calling this operation are added.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMetaTableIntroWiki	The operation that you want to perform.
Content	String	Yes	abc	The description of the table.
RegionId	String	Yes	cn-shanghai	The ID of the region where the event log was recorded.
TableGuid	String	Yes	odps.test.table1	The guid of the table. Format: odsp.{projectName}.{tableName}.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abcde	The ID of the request.
UpdateResult	Boolean	true	The result of the operation.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UpdateMetaTableIntroWiki &Content=abc &RegionId=cn-shanghai &TableGuid=odps.test.table1 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcde</RequestId> <UpdateResult>true</UpdateResult>
```

`JSON` Format

```
{ "RequestId": "abcde", "UpdateResult": true }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center .For more information, see error codes.

3.28. ListMetaDB

Queries metadatabases.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListMetaDB	The operation that you want to perform. Set the value to **ListMetaDB**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace. You can call the ListProjects to obtain the ID.
DataSourceType	String	Yes	emr	The type of the data source. Only emr is supported.
PageNum	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ClusterId	String	No	abc	The ID of the E-MapReduce (EMR) cluster. You can log on to the EMR console to obtain the ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abc	The ID of the request.
DatabaseInfo	Object		The information of the metadatabases.

Parameter	Type	Example	Description
TotalCount	Long	10	The total number of the metadatabases.
DbList	Array of DbList		The list of metadatabases.
Type	String	HIVE	The type of the metadatabase.
CreateTimeStamp	Long	1388776825	The timestamp at which the metadatabase was created. You can convert the timestamp to the related date based on the time zone that you use.
UUID	String	32342	The universally unique identifier (UUID) of the metadatabase.
ModifiedTimeStamp	Long	1388776837	The timestamp at which the metadatabase was updated.
Name	String	name	The name of the metadatabase.
OwnerId	String	1232	The ID of the metadatabase owner.
Location	String	hdfs://localhost:777/user/hadoop/test.txt	The URL of the metadatabase.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListMetaDB
&ProjectId=123
&DataSourceType=emr
&PageNum=1
&PageSize=10
&ClusterId=abc
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListMetaDBResponse>
    <RequestId>abc</RequestId>
    <DatabaseInfo>
        <TotalCount>10</TotalCount>
        <DbList>
            <Type>HIVE</Type>
            <CreateTimeStamp>1388776825</CreateTimeStamp>
            <UUID>32342</UUID>
            <ModifiedTimeStamp>1388776837</ModifiedTimeStamp>
            <Name>name</Name>
            <OwnerId>1232</OwnerId>
            <Location>hdfs://localhost:777/user/hadoop/test.txt</Location>
        </DbList>
    </DatabaseInfo>
</ListMetaDBResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "abc",
  "DatabaseInfo" : {
    "TotalCount" : 10,
    "DbList" : {
      "Type" : "HIVE",
      "CreateTimeStamp" : 1388776825,
      "UUID" : 32342,
      "ModifiedTimeStamp" : 1388776837,
      "Name" : "name",
      "OwnerId" : 1232,
      "Location" : "hdfs://localhost:777/user/hadoop/test.txt"
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.Meta.AppNotExist	The MaxCompute project does not exist.	The error message returned because the MaxCompute project does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the values specified for one or more parameters of the application are invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object you query does not exist.
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system has failed to obtain the compute engine instance based on the specified MaxCompute project.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.

For a list of error codes, visit the API Error Center.

For more information about how to use the operation, see Examples of DataWorks API operations.

3.29. UpdateTableModelInfo

Updates the information about a table, such as the table folder, level, and category. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateTableModelInfo	The operation that you want to perform.
FirstLevelThemeId	Long	Yes	101	The ID of the first-level table folder.
LevelId	Long	Yes	101	The ID of the table level.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.

Parameter	Type	Required	Example	Description
SecondLevelThemeId	Long	Yes	101	The ID of the second-level table folder.
TableGuid	String	Yes	odps.test.table1	The globally unique identifier (GUID) of the table. Specify the GUID in the format of odps.{projectName}.{tableName}.
LevelType	Integer	No	1	The type of the table level. Valid values: 1 and 2. A value of 1 indicates the logical level. A value of 2 indicates the physical level.

Response parameters

Parameter	Type	Example	Description
RequestId	String	abcde	The ID of the request.
UpdateResult	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateTableModelInfo
&FirstLevelThemeId=101
&LevelId=101
&RegionId=cn-shanghai
&SecondLevelThemeId=101
&TableGuid=odps.test.table1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcde</RequestId>
<UpdateResult>true</UpdateResult>
```

`JSON` format

```
{
    "RequestId": "abcde",
    "UpdateResult": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.30. CreateTableTheme

Creates a table folder. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateTableThem e	The operation that you want to perform.
Level	Integer	Yes	1	The level of the table folder. Valid values: 1 and 2. A value of 1 indicates a first-level table folder. A value of 2 indicates a second-level table folder.
Name	String	Yes	Name of the table folder	The name of the table folder.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
ParentId	Long	No	122	The ID of the level of the parent table folder.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	0	The error code returned.
ErrorMessage	String	success	The error message returned.
HttpStatusCod e	Integer	200	The HTTP status code returned.
RequestId	String	ABCd	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ThemeId	Long	123	The ID of the created table folder.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateTableTheme
&Level=1
&Name=Name of the table folder
&ProjectId=123
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<ThemeId>123</ThemeId>
<RequestId>ABCd</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>0</ErrorCode>
<ErrorMessage>success</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "ThemeId": 123,
    "RequestId": "ABCd",
    "HttpStatusCode": 200,
    "ErrorCode": 0,
    "ErrorMessage": "success",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.31. DeleteTableTheme

Deletes a table folder. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteTableTheme	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
ThemeId	Long	Yes	123	The ID of the table folder.
ProjectId	Long	No	123	The ID of the DataWorks workspace.

Response parameters

Parameter	Type	Example	Description
DeleteResult	Boolean	true	Indicates whether the table folder is deleted.
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	abcdef	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteTableTheme
&RegionId=cn-shanghai
&ThemeId=123
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcdef</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>0</ErrorCode>
<ErrorMessage>success</ErrorMessage>
<Success>true</Success>
<DeleteResult>true</DeleteResult>
```

`JSON` format

```
{
    "RequestId": "abcdef",
    "HttpStatusCode": 200,
    "ErrorCode": 0,
    "ErrorMessage": "success",
    "Success": true,
    "DeleteResult": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.32. UpdateTableTheme

Updates a table folder. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateTableTheme	The operation that you want to perform.
Name	String	Yes	Name of the table folder	The name of the table folder.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
ThemeId	Long	Yes	123	The ID of the table folder.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	abcd	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.

Parameter	Type	Example	Description
UpdateResult	Boolean	true	Indicates whether the update result is returned. Valid values: • true: The update result is returned. • false: The update result is not returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateTableTheme
&Name=Name of the table folder
&ProjectId=123
&RegionId=cn-shanghai
&ThemeId=123
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcd</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
<UpdateResult>true</UpdateResult>
```

`JSON` format

```
{
    "RequestId": "abcd",
    "HttpStatusCode": 200,
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true,
    "UpdateResult": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.33. ListTableTheme

Queries table folders. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTableTheme	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	123	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
ParentId	Long	No	121	The ID of the parent table folder.
PageNum	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Default value:10. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The returned data about the level of the table folder.
ThemeList	Array of ThemeList		The list of levels of the table folders.
CreateTimeStamp	Long	123432343243	The time when the level was created.
Creator	String	123455	The creator of the level.
Level	Integer	1	The level of the table folder. Valid values: 1 and 2. A value of 1 indicates a table folder of level 1. A value of 2 indicates a table folder of level 2.
Name	String	Name of the level of the table folder	The name of the level of the table folder.
ParentId	Long	122	The ID of the parent node.
ProjectId	Long	123	The ID of the DataWorks workspace.
ThemeId	Long	123	The ID of the table folder.

Parameter	Type	Example	Description
TotalCount	Long	10	The total number of table folders.
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	abcde	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListTableTheme
&ProjectId=123
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcde</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <ThemeList>
        <ParentId>122</ParentId>
        <ThemeId>123</ThemeId>
        <ProjectId>123</ProjectId>
        <Level>1</Level>
        <Creator>123455</Creator>
        <CreateTimeStamp>123432343243</CreateTimeStamp>
        <Name>Name of the level of the table folder</Name>
    </ThemeList>
    <TotalCount>10</TotalCount>
</Data>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "abcde",
    "HttpStatusCode": 200,
    "Data": {
        "ThemeList": {
            "ParentId": 122,
            "ThemeId": 123,
            "ProjectId": 123,
            "Level": 1,
            "Creator": 123455,
            "CreateTimeStamp": 123432343243,
            "Name": "Name of the level of the table folder"
        },
        "TotalCount": 10
    },
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.34. GetMetaTableThemeLevel

Queries information about table folders and table levels.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMetaTableThemeLevel	The operation that you want to perform.
DataSourceType	String	Yes	odps	The type of the data source. Set the value to odps.
RegionId	String	Yes	cn-shanghai	The ID of the region in which DataWorks is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
TableGuid	String	Yes	odps.project1.name1	The globally unique identifier (GUID) of the table. Specify the GUID in the format of odps.${projectName}.${tableName}.

Response parameters

Parameter	Type	Example	Description
Entity	Struct		The returned data.
Level	Array of Level		The information about the table level.
Description	String	Description	The description of the table level.
LevelId	Long	1	The ID of the table level.
Name	String	Level 1	The name of the table level.
Type	Integer	1	The type of the table level. Valid values: • 1: indicates the logical level. • 2: indicates the physical level.
Theme	Array of Theme		The information about the table folder.
Level	Integer	1	The level of the table folder. Valid values: • 1: indicates a table folder of level 1. • 2: indicates a table folder of level 2.
Name	String	theme1	The name of the table folder.
ParentId	Long	0	The ID of the parent table folder.
ThemeId	Long	123	The ID of the table folder.
ErrorCode	String	0	The error code returned.
ErrorMessage	String	success	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	1324afdsfde	The ID of the request. You can troubleshoot errors based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMetaTableThemeLevel
&DataSourceType=odps
&RegionId=cn-shanghai
&TableGuid=odps.project1.name1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<Entity>
    <Theme>
        <ParentId>0</ParentId>
        <ThemeId>123</ThemeId>
        <Level>1</Level>
        <Name>theme1</Name>
    </Theme>
    <Level>
        <Type>1</Type>
        <Description>Description</Description>
        <LevelId>1</LevelId>
        <Name>level1</Name>
    </Level>
</Entity>
<RequestId>1324afdsfde</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>0</ErrorCode>
<ErrorMessage>success</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "Entity": {
        "Theme": {
            "ParentId": 0,
            "ThemeId": 123,
            "Level": 1,
            "Name": "theme1"
        },
        "Level": {
            "Type": 1,
            "Description": "Description",
            "LevelId": 1,
            "Name": "level1"
        }
    },
    "RequestId": "1324afdsfde",
    "HttpStatusCode": 200,
    "ErrorCode": 0,
    "ErrorMessage": "success",
    "Success": true
}
```

Error codes

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HttpCode	Error code	Error message	Description
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the current user is not a tenant owner.
500	InternalError.Meta.NoCalcEngine	An error occurred while retrieving the compute engine based on the MaxCompute project.	The error message returned because the system failed to obtain a compute engine instance based on the specified MaxCompute project.
500	InternalError.Meta.TenantTimeOut	Failed to connect to the interface network.	The error message returned because the network cannot be connected.
500	InternalError.Meta.Unknown	An unknown error occurred while processing your request.	The error message returned because an unknown error has occurred.
400	Invalid.Meta.TableNotExist	The table does not exist.	The error message returned because the specified table does not exist.
400	InvalidParameter.Meta.CommonError	The specified parameter is invalid.	The error message returned because the values specified for one or more request parameters are invalid.
400	InvalidParameter.Meta.Illegal	The app guid parameter is invalid.	The error message returned because the specified app GUID is invalid.
400	InvalidParameter.Meta.IllegalDate	The date format is invalid.	The error message returned because the date format is invalid.
400	InvalidParameter.Meta.IllegalPageError	The parameter for paging is invalid.	The error message returned because the value of the parameter for paging is invalid.
400	InvalidParameter.Meta.NotExist	The object does not exist.	The error message returned because the object that you query does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.35. CreateTableLevel

Creates a table level. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateTableLevel	The operation that you want to perform.
LevelType	Integer	Yes	1	The type of the table level. Valid values: 1 and 2. A value of 1 indicates the logical level. A value of 2 indicates the physical level.
Name	String	Yes	Level 1	The name of the table level.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
Description	String	No	Description of table level	The description of the table level.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
LevelId	Long	123	The ID of the table level.

Parameter	Type	Example	Description
RequestId	String	Request ID	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateTableLevel
&LevelType=1
&Name=Level 1
&ProjectId=123
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>Request ID</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
<LevelId>123</LevelId>
```

`JSON` format

```
{
    "RequestId": "Request ID",
    "HttpStatusCode": 200,
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true,
    "LevelId": 123
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.36. UpdateTableLevel

Updates a table level. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateTableLevel	The operation that you want to perform.

Parameter	Type	Required	Example	Description
LevelId	Long	Yes	123	The ID of the table level to be updated. You can call the ListTableLevel operation to obtain the ID.
LevelType	Integer	Yes	1	The type of the table level. Valid values: 1 and 2. A value of 1 indicates the logical level. A value of 2 indicates the physical level.
Name	String	Yes	Name of the table level	The name of the table level.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.
Description	String	No	Description of table level	The description of the table level.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	abcde	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
UpdateResult	Boolean	true	Indicates whether the update result is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateTableLevel
&LevelId=123
&LevelType=1
&Name=Name of the table level
&ProjectId=123
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcde</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
<UpdateResult>true</UpdateResult>
```

`JSON` format

```
{
    "RequestId": "abcde",
    "HttpStatusCode": 200,
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true,
    "UpdateResult": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.37. DeleteTableLevel

Deletes a table level. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteTableLevel	The operation that you want to perform.
LevelId	Long	Yes	123	The ID of the table level to be deleted. You can call the ListTableLevel operation to obtain the ID.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated.

Response parameters

Parameter	Type	Example	Description
DeleteResult	Boolean	true	Indicates whether the table level is deleted.
RequestId	String	abcde	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteTableLevel
&LevelId=123
&ProjectId=123
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>abcde</RequestId>
<DeleteResult>true</DeleteResult>
```

`JSON` format

```
{
    "RequestId": "abcde",
    "DeleteResult": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

3.38. ListTableLevel

Queries table levels. This API operation will be replaced soon. We recommend that you do not call this API operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTableLevel	The operation that you want to perform.

Parameter	Type	Required	Example	Description
LevelType	Integer	Yes	1	The type of the table level. Valid values: 1 and 2. A value of 1 indicates the logical level. A value of 2 indicates the physical level.
ProjectId	Long	Yes	123	The ID of the DataWorks workspace. You can log on to the DataWorks console to obtain the ID.
RegionId	String	Yes	cn-shanghai	The ID of the region where the service is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
PageNum	Integer	No	1	The number of the page to return. Default value: 1.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	abc	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
TableLevelInfo	Struct		The information about the table levels.

Parameter	Type	Example	Description
LevelList	Array of LevelList		The list of table levels.
Description	String	Description of table level	The description of the table level.
LevelId	Long	123	The ID of the table level.
LevelType	Integer	1	The type of the table level. Valid values: 1 and 2. A value of 1 indicates the logical level. A value of 2 indicates the physical level.
Name	String	Level 1	The name of the table level.
ProjectId	Long	123	The ID of the DataWorks workspace.
TotalCount	Long	10	The total number of table levels returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListTableLevel
&LevelType=1
&ProjectId=123
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<TableLevelInfo>
    <TotalCount>10</TotalCount>
    <LevelList>
        <Description>Description of the table level</Description>
        <LevelType>1</LevelType>
        <ProjectId>123</ProjectId>
        <LevelId>123</LevelId>
        <Name>Level 1</Name>
    </LevelList>
</TableLevelInfo>
<RequestId>abc</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "TableLevelInfo": {
        "TotalCount": 10,
        "LevelList": {
            "Description": "Level description",
            "LevelType": 1,
            "ProjectId": 123,
            "LevelId": 123,
            "Name": "Level 1"
        }
    },
    "RequestId": "abc",
    "HttpStatusCode": 200,
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.Data Development

4.1. CreateFile

Creates a file in DataStudio. You cannot call this operation to create files for Data Integration nodes.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateFile	The operation that you want to perform.
FileFolderPath	String	Yes	Workflow/1/Max Compute/Folder 1/Folder 2	The path of the file.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must configure this parameter or the ProjectIdentifier parameter to determine the DataWorks workspace to which the operation is applied.
FileName	String	Yes	File name	The name of the file.
FileDescription	String	No	File description	The description of the file.

Parameter	Type	Required	Example	Description
FileType	Integer	Yes	10	The type of the code for the file. Valid values: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 24 (ODPS Script), 99 (zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (real-time synchronization), 1089 (cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (assignment), and 1221 (PyODPS 3). You can call the ListFileType operation to query the type of the code for the file.
Owner	String	No	1000000000001	The ID of the Alibaba Cloud account used by the file owner. If this parameter is not configured, the ID of the Alibaba Cloud account of the user who calls the operation is used.
Content	String	No	SHOW TABLES;	The code for the file. The code format varies based on the file type. To view the code format for a specific file type, go to Operation Center, right-click a node of the file type, and then select View Code.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
AutoRerunTimes	Integer	No	3	The number of automatic reruns that are allowed after an error occurs. Maximum value: 10.

Parameter	Type	Required	Example	Description
AutoRerunInterval Millis	Integer	No	120000	The interval between automatic reruns after an error occurs. Unit: milliseconds. Maximum value: 1800000 (30 minutes). This parameter corresponds to the Rerun Interval parameter that is displayed after the Auto Rerun upon Error check box is selected in the Schedule section of the Properties tab in the DataWorks console. The interval that you specify in the DataWorks console is measured in minutes. Pay attention to the conversion between the units of time when you call the operation.
RerunMode	String	No	ALL_ALLOWED	Specifies whether the node that corresponds to the file can be rerun. Valid values: • ALL_ALLOWED: The node can be rerun regardless of whether it is successfully run or fails to run. • FAILURE_ALLOWED: The node can be rerun only after it fails to run. • ALL_DENIED: The node cannot be rerun regardless of whether it is successfully run or fails to run. This parameter corresponds to the Rerun parameter in the Schedule section of the Properties tab in the DataWorks console.
Stop	Boolean	No	false	Specifies whether the scheduling for the node is suspended Valid values: • true: The scheduling for the node is suspended. • false: The scheduling for the node is not suspended. This parameter corresponds to the Recurrence parameter in the Schedule section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
ParaValue	String	No	a=x b=y	The scheduling parameters of the node. This parameter corresponds to the Parameters section of the Properties tab in the DataWorks console. For more information about the configurations of the scheduling parameters, see Configure scheduling parameters.
StartEffectDate	Long	No	936923400000	The start time of automatic scheduling. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. This parameter corresponds to the Validity Period parameter in the Schedule section of the Properties tab in the DataWorks console.
EndEffectDate	Long	No	4155787800000	The end time of automatic scheduling. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. This parameter corresponds to the Validity Period parameter in the Schedule section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
CronExpress	String	No	00 05 00 * * ?	The CRON expression that represents the automatic scheduling policy of the node. This parameter corresponds to the Cron Expression parameter in the Schedule section of the Properties tab in the DataWorks console. After you configure the Scheduling Cycle and Run At parameters in the DataWorks console, DataWorks generates the value of the Cron Expression parameter. Examples: • CRON expression for a node that is scheduled to run at 05:30 every day: `00 30 05 * * ?` • CRON expression for a node that is scheduled to run at the fifteenth minute of each hour: `00 15 * * * ?` • CRON expression for a node that is scheduled to run every 10 minutes: `00 00/10 * * * ?` • CRON expression for a node that is scheduled to run every 10 minutes from 08:00 to 17:00 every day: `00 00-59/10 8-23 * * * ?` • CRON expression for a node that is scheduled to run at 00:20 on the first day of each month: `00 20 00 1 * ?` • CRON expression for a node that is scheduled to run every three months starting from 00:10 on January 1: `0 0 10 00 1 1-12/3 ?` • CRON expression for a node that is scheduled to run at 00:05 every Tuesday and Friday: `00 05 00 * * 2,5` The scheduling system of DataWorks imposes the following limits on CRON expressions: • A node can be scheduled to run at a minimum interval of 5 minutes. • A node can be scheduled to run at 00:05 every day at the earliest.

Parameter	Type	Required	Example	Description
CycleType	String	No	DAY	The type of the scheduling cycle. Valid values: NOT_DAY and DAY. The value NOT_DAY indicates that the node is scheduled to run by minute or hour. The value DAY indicates that the node is scheduled to run by day, week, or month. This parameter corresponds to the Scheduling Cycle parameter in the Schedule section of the Properties tab in the DataWorks console.
DependentType	String	No	NONE	The type of the cross-cycle scheduling dependency of the node. Valid values: • SELF: The instance generated for the node in the current cycle depends on the instance generated for the node in the previous cycle. • CHILD: The instance generated for the node in the current cycle depends on the instances generated for the descendant nodes at the nearest level of the node in the previous cycle. • USER_DEFINE: The instance generated for the node in the current cycle depends on the instances generated for one or more specified nodes in the previous cycle. • NONE: No cross-cycle scheduling dependency type is selected for the node.
DependentNodeIdList	String	No	abc	The IDs of the nodes that generate instances in the last cycle on which the current node depends.
InputList	String	Yes	project_root,project.file1,project.001_out	The output name of the parent file on which the current file depends. If you specify multiple output names, separate them with commas (,). This parameter corresponds to the Output Name parameter under Parent Nodes in the Dependencies section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace name. You must configure this parameter or the ProjectId parameter to determine the DataWorks workspace to which the operation is applied.
ResourceGroupIdentifier	String	No	group_375827434852437	The identifier of the resource group that is used to run the node. You can call the ListResourceGroups operation to query the available resource groups in the workspace.
ResourceGroupId	Long	No	375827434852437	This parameter is deprecated. Do not use this parameter.
ConnectionName	String	No	odps_first	The name of the connected data source that is used to run the node. You can call the ListDataSources operation to query the available data sources of the workspace.
AutoParsing	Boolean	No	true	Specifies whether the automatic parsing feature is enabled for the file. Valid values: • true: The automatic parsing feature is enabled for the file. • false: The automatic parsing feature is not enabled for the file. This parameter corresponds to the Analyze Code parameter that is displayed after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
SchedulerType	String	No	NORMAL	The scheduling type of the node. Valid values: • NORMAL: The node is an auto triggered node. • MANUAL: The node is a manually triggered node. Manually triggered nodes cannot be automatically triggered. They correspond to the nodes in the Manually Triggered Workflows pane. • PAUSE: The node is a paused node. • SKIP: The node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
AdvancedSettings	String	No	{"queue":"default","SPARK_CONF":"--conf spark.driver.memory=2g"}	The advanced configurations of the node. This parameter is valid only for an EMR Spark Streaming node or an EMR Streaming SQL node. This parameter corresponds to the Advanced Settings tab of the node in the DataWorks console. This parameter is configured in the JSON format.
StartImmediately	Boolean	No	true	Specifies whether to immediately run a node after the node is deployed to the production environment. This parameter is valid only for an EMR Spark Streaming node or an EMR Streaming SQL node. This parameter corresponds to the Start Method parameter in the Schedule section of the Configure tab in the DataWorks console.

Parameter	Type	Required	Example	Description
InputParameters	String	No	[{"ValueSource": "project_001.first_node:bizdate_param","ParameterName": "bizdate_input"}]	Input parameters of the node. This parameter is configured in the JSON format. For more information about the input parameters, refer to the InputParameters parameter in the Response parameters section of the GetFile operation. This parameter corresponds to the Input Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
OutputParameters	String	No	[{"Type": 1,"Value": "${bizdate}","ParameterName": "bizdate_param"}]	Output parameters of the node. This parameter is configured in the JSON format. For more information about the output parameters, refer to the OutputParameters parameter in the Response parameters section of the GetFile operation. This parameter corresponds to the Output Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	Long	1000001	The ID of the file that was created.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can use the ID to troubleshoot issues.
ErrorMessage	String	The connection does not exist.	The error message returned.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateFile
&FileFolderPath=Workflow/1/MaxCompute/Folder 1/Folder 2
&ProjectId=10000
&FileName=File name
&FileDescription=File description
&FileType=10
&Owner=1000000000001
&Content=SHOW TABLES;
&AutoRerunTimes=3
&AutoRerunIntervalMillis=120000
&RerunMode=ALL_ALLOWED
&Stop=false
&ParaValue=a=x b=y
&StartEffectDate=936923400000
&EndEffectDate=4155787800000
&CronExpress=00 05 00 * * ?
&CycleType=DAY
&DependentType=NONE
&DependentNodeIdList=abc
&InputList=project_root,project.file1,project.001_out
&ProjectIdentifier=dw_project
&ResourceGroupIdentifier=group_375827434852437
&ResourceGroupId=375827434852437
&ConnectionName=odps_first
&AutoParsing=true
&SchedulerType=NORMAL
&AdvancedSettings={"queue":"default","SPARK_CONF":"--conf spark.driver.memory=2g"}
&StartImmediately=true
&InputParameters=[{"ValueSource": "project_001.first_node:bizdate_param","ParameterName": "b
izdate_input"}]
&OutputParameters=[{"Type": 1,"Value": "${bizdate}","ParameterName": "bizdate_param"}]
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateFileResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>1000001</Data>
    <RequestId>0000-ABCD-EFG</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
</CreateFileResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : 1000001,
  "RequestId" : "0000-ABCD-EFG",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

4.2. CreateUdfFile

Creates a file for a function in DataStudio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateUdfFile	The operation that you want to perform.
ClassName	String	Yes	com.alibaba.DataWorks.api.udf.StringConcat	The name of the class in which the function is defined. This parameter corresponds to the Class Name parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
FileFolderPath	String	Yes	Workflow/1/Function/String function	The path of the folder in which the file for the function is stored.
FileName	String	Yes	StringConcat	The name of the file for the function.
FunctionType	String	Yes	STRING	The type of the function. Valid values: MATH, AGGREGATE, STRING, DATE, ANALYTIC, and OTHER. This parameter corresponds to the Function Type parameter in the Register Function section of the configuration tab of the function in the DataWorks console.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The region ID.
Resources	String	Yes	string-concat-1.0.0.jar,commons-lang-2.6.jar	The names of the resources that are referenced by the function. This parameter corresponds to the Resources parameter in the Register Function section of the configuration tab of the function in the DataWorks console. Multiple resource names are separated by commas (,).
UdfDescription	String	Yes	New string that is generated after multiple strings are concatenated	The description of the function. This parameter corresponds to the Description parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can click the Workspace Manage icon in the upper-right corner of the DataStudio page to go to the Workspace Management page and view the workspace ID.
CmdDescription	String	No	StringConcat(String... substrs)	The syntax used for calling the function. This parameter corresponds to the Expression Syntax parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
ParameterDescription	String	No	Strings to be concatenated	The description of the input parameters of the function. This parameter corresponds to the Parameter Description parameter in the Register Function section of the configuration tab of the function in the DataWorks console.

Parameter	Type	Required	Example	Description
ReturnValue	String	No	New string that is generated after all strings are concatenated in sequence	The description of the return value of the function. This parameter corresponds to the Return Value parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
Example	String	No	StringConcat('a', 'b', 'c')	The example for calling the function. This parameter corresponds to the Example parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
ProjectIdentifier	String	No	dw_project	The unique identifier of the DataWorks workspace. You can click the identifier in the upper-left corner of the DataStudio page to switch to another workspace. You must specify either this parameter or the projectId parameter to determine the DataWorks workspace to which the operation is called.

Response parameters

Parameter	Type	Example	Description
Data	Long	100000002	The ID of the file that was created.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateUdfFile
&ClassName=com.alibaba.DataWorks.api.udf.StringConcat
&FileFolderPath=Workflow/1/Function/String function
&FileName=StringConcat
&FunctionType=STRING
&ProjectId=10000
&RegionId=cn-zhangjiakou
&Resources=string-concat-1.0.0.jar,commons-lang-2.6.jar
&UdfDescription=New string that is generated after multiple strings are concatenated
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>100000002</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": 100000002,
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.

HTTP status code	Error code	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.3. CreateBusiness

Creates a workflow in DataStudio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateBusiness	The operation that you want to perform.
BusinessName	String	Yes	My workflow	The name of the workflow. The name must be unique in a workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Parameter	Type	Required	Example	Description
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the ID.
ProjectIdentifier	String	No	dw_project	The unique identifier of the DataWorks workspace, which is the name of the workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the name. You must set one of the ProjectIdentifier and ProjectId parameters to specify the DataWorks workspace on which you want to perform the operation.
Description	String	No	A workflow created by calling the operation	The description of the workflow.
Owner	String	No	1000000000001	The ID of the Alibaba Cloud account used by the owner of the workflow. You can log on to the DataWorks console and move the pointer over the profile picture in the upper-right corner to view the ID. If this parameter is not set, the ID of the Alibaba Cloud account of the user who calls the operation is used.
UseType	String	No	NORMAL	The type of the workflow. Valid values: • NORMAL: Data Analytics workflow • MANUAL_BIZ: manually triggered workflow

Response parameters

Parameter	Type	Example	Description
BusinessId	Long	100001	The ID of the workflow.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.

Parameter	Type	Example	Description
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot errors based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateBusiness
&BusinessName=My workflow
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<BusinessId>100001</BusinessId>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "BusinessId": 100001,
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.4. DeleteBusiness

Deletes a workflow.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteBusiness	The operation that you want to perform.

Parameter	Type	Required	Example	Description
BusinessId	Long	Yes	1000001	The ID of the workflow. You can call the ListBusiness operation to query the workflow ID.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Settings panel to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteBusiness
&BusinessId=1000001
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.5. CreateFolder

Creates a folder.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateFolder	The operation that you want to perform.
FolderPath	String	Yes	Business Flow/System Data/MaxCompute/Import	The path of the folder. You can refer to the "Directory structure on the DataStudio page after a folder is created" section in Examples of DataStudio API operation calls to create a path.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
Data	String	bdfd68****	The unique identifier of the folder.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateFolder
&FolderPath=Business Flow/System Data/MaxCompute/Import
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>bdfd68****</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG",
    "HttpStatusCode": 200,
    "Data": "bdfd68****",
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.

Http status code	Error code	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.6. UpdateBusiness

Updates a workflow.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateBusiness	The operation that you want to perform.
BusinessId	Long	Yes	300000	The ID of the workflow. ListBusiness Get.
BusinessName	String	Yes	MyBusiness	The name of the workflow.
ProjectId	Long	Yes	10000	Dataworks workspace ID and click the workspace manage icon in the upper-right corner to view the workspace information.
RegionId	String	Yes	cn-zhangjiakou	The list of regions where the services are located.

Parameter	Type	Required	Example	Description
ProjectIdentifier	String	No	dw_project	Dataworks unique identifier of the workspace, that is, the name of the workspace at the top of the data Development page. You must specify either this parameter or the projectId parameter to determine the Dataworks workspace for the current API call.
Description	String	No	modified from my first business	The description of the workflow.
Owner	String	No	348428****	The person responsible for workflow.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=updateusage&businesssid=300000 &BusinessName=MyBusiness &
ProjectId=10000 &RegionId=cn-zhangjiakou &<common request parameters>
```

Sample success responses

`XML` format

```
    <RequestId>0000-ABCD-EFG****</RequestId> <HttpStatusCode>200</HttpStatusCode> <ErrorCod
e>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connection does not exist
. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
    { "RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "ErrorCode": "Invalid.Tenant
.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center For more information, see error codes.

4.7. ListFiles

Queries files.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListFiles	The operation that you want to perform.
FileFolderPath	String	No	Workflow/My first workflow/MaxCompute/ods	The path of the files.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace ID. You must specify one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
Keyword	String	No	ods	The keyword in the file names. The keyword is used to perform a fuzzy match. You can specify a keyword to query all the files whose names contain the keyword.
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace name. You must specify one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
PageNumber	Integer	No	1	The number of the page to return.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return per page. Default value: 10. The number cannot exceed 100.
UseType	String	No	NORMAL	The module to which the files belong. Valid values: • NORMAL: The files are used for DataStudio. • MANUAL: The files are used for manually triggered nodes. • MANUAL_BIZ: The files are used for manually triggered workflows. • SKIP: The files are used for dry-run DataStudio nodes. • ADHOCQUERY: The files are used for ad hoc queries. • COMPONENT: The files are used for snippets.
FileTypes	String	No	10,23	The types of the code in the files. Examples: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 97 (PAI), 98 (Node group), 99 (Zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (Real-time synchronization), 1002 (PAI internal node), 1089 (Cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (Assignment), 1106 (For-each), and 1221 (PyODPS 3).
Owner	String	No	3726346****	The owner of the files.

Parameter	Type	Required	Example	Description
NodeId	Long	No	123541234	The ID of the node that is scheduled. You can call the ListNodes operation to query the ID of the node.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
ErrorMessage	String	The connection does not exist.	The error message returned.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can troubleshoot errors based on the ID.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
Data	Object		The files returned.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page.
TotalCount	Integer	13	The total number of entries returned.
Files	Array of File		The details of the files.
CommitStatus	Integer	1	Indicates whether the latest code in the file is committed. Valid values: 0 and 1. A value of 0 indicates that the latest code is not committed. A value of 1 indicates that the latest code is committed.

Parameter	Type	Example	Description
AutoParsing	Boolean	true	Indicates whether the automatic parsing feature is enabled for the file. Valid values: • true: The automatic parsing feature is enabled for the file. • false: The automatic parsing feature is not enabled for the file. This parameter is equivalent to the Auto Parse parameter in the Dependencies section of the Properties panel in the DataWorks console.
Owner	String	3872572****	The ID of the Alibaba Cloud account used by the file owner.
CreateTime	Long	1593950832000	The time when the file was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
FileType	Integer	10	The type of the code in the file. Examples: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 99 (Zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (Real-time synchronization), 1089 (Cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (Assignment), and 1221 (PyODPS 3).
CurrentVersion	Integer	2	The latest version number of the file.
BizId	Long	300000	The ID of the workflow to which the file belongs. This parameter is deprecated and replaced by the BusinessId parameter.
LastEditUser	String	38748246285727	The ID of the Alibaba Cloud account that is used to last modify the file.
FileName	String	ods_user_info_d	The name of the file.

Parameter	Type	Example	Description
ConnectionName	String	odps_first	The ID of the compute engine instance that is used to run the node that corresponds to the file.
UseType	String	NORMAL	The module to which the file belongs. Valid values: • NORMAL: The file is used for DataStudio. • MANUAL: The file is used for a manually triggered node. • MANUAL_BIZ: The file is used for a manually triggered workflow. • SKIP: The file is used for a dry-run DataStudio node. • ADHOCQUERY: The file is used for an ad hoc query. • COMPONENT: The file is used for a snippet.
FileFolderId	String	2735c2****	The ID of the folder to which the file belongs.
FileId	Long	10000001	The ID of the file.
ParentId	Long	-1	The ID of the node group file to which the current file belongs. This parameter is returned only if the current file is an inner file of the node group file.
CreateUser	String	382762****	The ID of the Alibaba Cloud account that is used to create the file.
IsMaxCompute	Boolean	false	Indicates whether the file needs to be uploaded to MaxCompute if the file is a MaxCompute resource file. This parameter is returned only if the file is a MaxCompute resource file.
BusinessId	Long	300000	The ID of the workflow to which the file belongs.

Parameter	Type	Example	Description
FileDescription	String	my test datastudio file	The description of the file.
LastEditTime	Long	1593950832000	The time when the file was last modified. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
Content	String	SHOW TABLES;	The code in the file.
NodeId	Long	300001	The ID of the auto triggered node that is generated in the scheduling system after the file is committed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListFiles
&FileFolderPath=Workflow/My first workflow/MaxCompute/ods
&ProjectId=10000
&Keyword=ods
&ProjectIdentifier=dw_project
&PageNumber=1
&PageSize=10
&UseType=NORMAL
&FileTypes=10,23
&Owner=3726346****
&NodeId=123541234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListFilesResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0000-ABCD-EFG</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>13</TotalCount>
        <Files>
            <CommitStatus>1</CommitStatus>
            <AutoParsing>true</AutoParsing>
            <Owner>3872572****</Owner>
            <CreateTime>1593950832000</CreateTime>
            <FileType>10</FileType>
            <CurrentVersion>2</CurrentVersion>
            <BizId>300000</BizId>
            <LastEditUser>38748246285727</LastEditUser>
            <FileName>ods_user_info_d</FileName>
            <ConnectionName>odps_first</ConnectionName>
            <UseType>NORMAL</UseType>
            <FileFolderId>2735c2****</FileFolderId>
            <FileId>10000001</FileId>
            <ParentId>-1</ParentId>
            <CreateUser>382762****</CreateUser>
            <IsMaxCompute>false</IsMaxCompute>
            <BusinessId>300000</BusinessId>
            <FileDescription>my test datastudio file</FileDescription>
            <LastEditTime>1593950832000</LastEditTime>
            <Content>SHOW TABLES;</Content>
            <NodeId>300001</NodeId>
        </Files>
    </Data>
</ListFilesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0000-ABCD-EFG",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true,
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 13,
    "Files" : {
      "CommitStatus" : 1,
      "AutoParsing" : true,
      "Owner" : "3872572****",
      "CreateTime" : 1593950832000,
      "FileType" : 10,
      "CurrentVersion" : 2,
      "BizId" : 300000,
      "LastEditUser" : 38748246285727,
      "FileName" : "ods_user_info_d",
      "ConnectionName" : "odps_first",
      "UseType" : "NORMAL",
      "FileFolderId" : "2735c2****",
      "FileId" : 10000001,
      "ParentId" : -1,
      "CreateUser" : "382762****",
      "IsMaxCompute" : false,
      "BusinessId" : 300000,
      "FileDescription" : "my test datastudio file",
      "LastEditTime" : 1593950832000,
      "Content" : "SHOW TABLES;",
      "NodeId" : 300001
    }
  }
}
```

Error codes

Http status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

Http status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

4.8. EstablishRelationTableToBusiness

Imports a table to a workflow. The call to this API operation is equivalent to performing the following operations: Go to the DataStudio page, find the desired workflow in the Scheduled Workflow pane, and then click the workflow name. Right-click the MaxCompute folder and select Import Table.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	EstablishRelationTableToBusiness	The operation that you want to perform.
BusinessId	String	Yes	1000001	The ID of the workflow. You can call the ListBusiness operation to query the ID.

Parameter	Type	Required	Example	Description
FolderId	String	Yes	2eb6f9****	The ID of the folder. You can call the GetFolder or ListFolders operation to query the ID.
RegionId	String	Yes	cn-zhangjiakou	The region ID.
TableGuid	String	Yes	odps.dw_project.tb1	The universally unique identifier (UUID) of the table. You can call the SearchMetaTables operation to query the UUID.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can click the Workspace Manage icon in the upper-right corner of the DataStudio page to go to the Workspace Management page and view the workspace ID.
ProjectIdentifier	String	No	dw	The unique identifier of the DataWorks workspace. You can click the identifier in the upper-left corner of the DataStudio page to switch to another workspace. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=EstablishRelationTableToBusiness
&BusinessId=1000001
&FolderId=2eb6f9****
&ProjectId=10000
&RegionId=cn-zhangjiakou
&TableGuid=odps.dw_project.tb1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG",
    "HttpStatusCode": 200,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.9. SubmitFile

Commits a file to the development environment of the scheduling system to generate a node. This API operation processes your request in asynchronous mode. You can call the GetDeployment operation to check whether the file is committed.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SubmitFile	The operation that you want to perform. Set the value to **SubmitFile**.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must configure either this parameter or the ProjectIdentifier parameter to determine the DataWorks workspace to which the operation is applied.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The region ID of the workspace. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace name. You must configure either this parameter or the ProjectId parameter to determine the DataWorks workspace to which the operation is applied.
FileId	Long	Yes	1000000	The ID of the file. You can call the ListFiles operation to query the ID.
Comment	String	No	Commit for the first time	The description of the commit operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	Long	3000001	The ID of the deployment task. The ID is used as the value of a specific request parameter when you call the GetDeployment operation to query the details of the deployment task.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot errors based on the ID.
ErrorMessage	String	The connection does not exist.	The error message returned.
Success	Boolean	true	Indicates whether the request is successful.

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=SubmitFile
&ProjectId=10000
&ProjectIdentifier=dw_project
&FileId=1000000
&Comment=Commit for the first time
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SubmitFileResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>3000001</Data>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
</SubmitFileResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : 3000001,
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists"
}
```

Error codes

HTTP status code	Error code	Error message	Description

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.

For a list of error codes, visit the API Error Center.

4.10. ListBusiness

Queries workflows.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListBusiness	The operation that you want to perform.

Parameter	Type	Required	Example	Description
PageNumber	Integer	Yes	1	The number of data pages that are requested.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ProjectId	Long	Yes	10000	Dataworks workspace ID and click the workspace manage icon in the upper-right corner to view the workspace information.
RegionId	String	Yes	cn-zhangjiakou	The list of regions where the services are located.
ProjectIdentifier	String	No	dw_project	Dataworks unique identifier of the workspace, that is, the name of the workspace at the top of the data Development page. You must specify either this parameter or the ProjectId parameter to determine the Dataworks workspace for the current API call.
Keyword	String	No	my	The keyword used for fuzzy matching of workflow.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the workflow list.
Business	Array of Business		The details of the workflow.
BusinessId	Long	3000001	The ID of the workflow.
BusinessName	String	My first workflow	The name of the workflow.
Description	String	My first workflow	The description of the workflow.

Parameter	Type	Example	Description
Owner	String	34824327****	The person responsible for workflow.
ProjectId	Long	10000	The ID of the workspace to which the workflow belongs.
UseType	String	NORMAL	The functional module of the workflow, including NORMAL (data analytics) and MANUAL_BIZ (manually triggered workflow workflow).
PageNumber	Integer	1	The number of the page to return.
PageSize	Integer	10	The size of the current data page.
TotalCount	Integer	13	The total number of data records that meet the query conditions.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=ListBusiness &PageNumber=1 &PageSize=10 &ProjectId=10000
&RegionId=cn-zhangjiakou &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data
> <TotalCount> 13 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <Busi
ness> <Owner> 34824327**** </Owner> <Description> my first workflow </Description> <Business
Name> my first workflow </BusinessName> <UseType> NORMAL </UseType> <ProjectId> 10000 </Proj
ectId> <BusinessId> 3000001 </BusinessId> </Business> </Data> <Success> true </Success>
```

`JSON` Format

```
{"RequestId": "0000-abcd-EFG %}*", "HttpStatusCode": 200, "Data": { "TotalCount": 13, "
PageSize": 10, "PageNumber": 1, "Business": { "Owner": "34824327 TotalCount *", "Description
": "My first workflow", "BusinessName": "My first workflow ", "UseType": "NORMAL"," ProjectI
d": 10000, "BusinessId": 3000001 } }, "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center For more information, see error codes.

4.11. GetFileVersion

Queries the details of a file version.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetFileVersion	The operation that you want to perform.
FileId	Long	Yes	1000001	The ID of the file. You can call the ListFiles operation to query the ID.
FileVersion	Integer	Yes	2	The file version whose details you want to query.
RegionId	String	Yes	cn-zhangjiakou	The region ID.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can click the Workspace Manage icon in the upper-right corner of the DataStudio page to go to the Workspace Management page and view the workspace ID.
ProjectIdentifier	String	No	dw_project	The unique identifier of the DataWorks workspace. You can click the identifier in the upper-left corner of the DataStudio page to switch to another workspace. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the file version.
ChangeType	String	UPDATE	The change type of the file version. Valid values: CREATE, UPDATE, and DELETE.

Parameter	Type	Example	Description
Comment	String	Second version	The description of the file version.
CommitTime	Long	1593881265000	The time when the version was generated. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
CommitUser	String	7384234****	The ID of the Alibaba Cloud account that is used to create the file version.
FileContent	String	SHOW TABLES;	The file code.
FileName	String	ods_user_info_d	The file name.
FilePropertyContent	String	null	The basic information about the file.
FileVersion	Integer	2	The file version.
IsCurrentProd	Boolean	true	Indicates whether the version is the latest version in the production environment.
NodeContent	String	null	The scheduling configurations of the node that corresponds to the file version.
NodeId	Long	3000001	The ID of the node that corresponds to the file version.
Status	String	COMMITTED	The status of the file version. Valid values: COMMITTING, COMMITTED, CHECK_OK, PACKAGED, DEPLOYING, DEPLOYED, and CANCELLED. The value CHECK_OK is equivalent to the value COMMITTED.

Parameter	Type	Example	Description
UseType	String	NORMAL	The functional module to which the file belongs. Valid values: NORMAL, MANUAL, MANUAL_BIZ, SKIP, ADHOCQUERY, and COMPONENT. The value NORMAL indicates DataStudio. The value MANUAL indicates a manually triggered node. The value MANUAL_BIZ indicates a manually triggered workflow. The value SKIP indicates a dry-run DataStudio node. The value ADHOCQUERY indicates an ad hoc query. The value COMPONENT indicates snippets.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetFileVersion
&FileId=1000001
&FileVersion=2
&ProjectId=10000
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Status>COMMITTED</Status>
    <Comment>Second version</Comment>
    <CommitUser>7384234****</CommitUser>
    <FilePropertyContent>{"fileName":"ods_user_info_d","fileType":10}</FilePropertyContent>
    <FileName>ods_user_info_d</FileName>
    <CommitTime>1593881265000</CommitTime>
    <UseType>NORMAL</UseType>
    <IsCurrentProd>true</IsCurrentProd>
    <FileContent>SHOW TABLES;</FileContent>
    <ChangeType>UPDATE</ChangeType>
    <FileVersion>2</FileVersion>
    <NodeId>3000001</NodeId>
    <NodeContent>{"cycleType":0,"cronExpress":"00 05 00 * * ?"}</NodeContent>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": {
        "Status": "COMMITTED",
        "Comment": "Second version",
        "CommitUser": "7384234****",
        "FilePropertyContent": "{\"fileName\":\"ods_user_info_d\",\"fileType\":10}",
        "FileName": "ods_user_info_d",
        "CommitTime": 1593881265000,
        "UseType": "NORMAL",
        "IsCurrentProd": true,
        "FileContent": "SHOW TABLES;",
        "ChangeType": "UPDATE",
        "FileVersion": 2,
        "NodeId": 3000001,
        "NodeContent": "{\"cycleType\":0,\"cronExpress\":\"00 05 00 * * ?\"}"
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.12. DeleteFolder

Deletes a folder from DataStudio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteFolder	The operation that you want to perform.

Parameter	Type	Required	Example	Description
FolderId	String	Yes	2eb6f9****	The ID of the folder. You can call the ListFolders operation to query the ID.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Settings panel to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteFolder
&FolderId=2eb6f9****
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.13. DeleteFile

Deletes a file from DataStudio. If the file has been committed, an asynchronous process is triggered to delete the file in the scheduling system. The value of the DeploymentId parameter returned is used to call the GetDeployment operation to poll the status of the asynchronous process.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteFile	The operation that you want to perform.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace ID. You must specify one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace name. You must specify one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
FileId	Long	Yes	10000001	The ID of the file. You can call the ListFiles operation to query the ID of the file.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
DeploymentId	Long	1000000001	The ID of the deployment task that deploys the file. If the file has been committed, an asynchronous process is triggered to delete the file in the scheduling system. The value of this parameter is used to call the GetDeployment operation to poll the status of the asynchronous process. If this parameter is empty, the file is deleted and the polling is not required.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot errors based on the ID.
ErrorMessage	String	The connection does not exist.	The error message returned.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteFile
&ProjectId=10000
&ProjectIdentifier=dw_project
&FileId=10000001
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteFileResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <DeploymentId>1000000001</DeploymentId>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
</DeleteFileResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "DeploymentId" : 1000000001,
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists"
}
```

Error codes

Http status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

4.14. GetDeployment

Queries the details of a deployment task.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDeployment	The operation that you want to perform.

Parameter	Type	Required	Example	Description
DeploymentId	Long	Yes	3000001	The ID of the deployment task. A deployment task ID is generated when you call the SubmitFile or DeployFile operation.
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which DataWorks is activated.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can click the Workspace Manage icon in the upper-right corner of the DataStudio page to go to the Workspace Management page and view the workspace ID.
ProjectIdentifier	String	No	dw_project	The GUID of the DataWorks workspace. You can view the GUID in the upper part of the DataStudio page. You can also select another GUID to switch to another workspace. You must specify either this parameter or the ProjectId parameter to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The data about the deployment task.
Deployment	Struct		The details of the deployment task.
CheckingStatus	Integer	7	The check status of one or more files in the deployment task. If the value of the ToEnvironment parameter is 1, the files can be deployed to the production environment only when the value of the Status parameter is 1 and the CheckingStatus parameter is empty. Valid values: • 7: The file failed the check. • 8: The file is being checked.

Parameter	Type	Example	Description
CreateTime	Long	1593877765000	The time when the deployment task was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
CreatorId	String	20030****	The ID of the Alibaba Cloud account used by the user who created the deployment task.
ErrorMessage	String	Success	The error message that was returned when the deployment task failed. In this case, the value of the Status parameter is 2.
ExecuteTime	Long	1593877765000	The time when the deployment task was run. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
FromEnvironment	Integer	0	The environment in which the deployment task was run. Valid values: 0 and 1. A value of 0 indicates the on-premises environment. A value of 1 indicates the development environment.
HandlerId	String	2003****	The ID of the Alibaba Cloud account used by the user who ran the deployment task.
Name	String	ods_user_info_d-2020-07-04_20030****	The name of the deployment task. The value is the same as the name of the specific deployment task that is displayed on the Release Package page in the Deploy module.
Status	Integer	1	The status of the deployment task. Valid values: 0, 1, and 2. A value of 0 indicates that the task is ready. A value of 1 indicates that the task was successful. A value of 2 indicates that the task failed.
ToEnvironment	Integer	1	The environment to which the file was deployed. Valid values: 1 and 2. A value of 1 indicates the development environment. A value of 2 indicates the production environment.

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot errors based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetDeployment
&DeploymentId=3000001
&ProjectId=10000
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Deployment>
        <Status>1</Status>
        <HandlerId>2003****</HandlerId>
        <ExecuteTime>1593877765000</ExecuteTime>
        <CreatorId>20030****</CreatorId>
        <CreateTime>1593877765000</CreateTime>
        <ToEnvironment>1</ToEnvironment>
        <FromEnvironment>0</FromEnvironment>
        <ErrorMessage>Success</ErrorMessage>
        <Name>ods_user_info_d-2020-07-04_20030****</Name>
    </Deployment>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": {
        "Deployment": {
            "Status": 1,
            "HandlerId": "2003****",
            "ExecuteTime": 1593877765000,
            "CreatorId": "20030****",
            "CreateTime": 1593877765000,
            "ToEnvironment": 1,
            "FromEnvironment": 0,
            "ErrorMessage": "Success",
            "Name": "ods_user_info_d-2020-07-04_20030****"
        }
    },
    "Success": true
}
```

Error codes

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.15. UpdateFile

Updates a file.

When you debug or call this operation, you must specify new values for the specified parameters to ensure that the values are different from the original configurations of the file. For example, if the original value of a parameter is A, you must change the value of this parameter to B before you commit the node. If you set the parameter to A, an exception that indicates invalid data occurs.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateFile	The operation that you want to perform.
FileFolderPath	String	No	Workflow/1/Data Integration/Folder 1/Folder 2	The path of the file.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
FileName	String	No	ods_user_info_d	The name of the file. You can set the FileName parameter to a new value to change the file name. You can call the ListFiles operation to query the ID of the file whose name you want to change. Then, you can set the FileId parameter to the ID and set the FileName parameter to a new value when you call the UpdateFile operation.
FileDescription	String	No	File description	The description of the file.

Parameter	Type	Required	Example	Description
Content	String	No	SELECT "1";	The code for the file. The code format varies based on the file type. To view the code format for a specific file type, go to Operation Center, right-click a node of the file type, and then select View Code.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
AutoRerunTimes	Integer	Yes	3	The number of automatic reruns that are allowed after an error occurs.
AutoRerunInterval Millis	Integer	No	120000	The interval between automatic reruns after an error occurs. Unit: milliseconds. This parameter corresponds to the Rerun Interval parameter that is displayed after the Auto Rerun upon Error check box is selected in the Schedule section of the Properties tab in the DataWorks console. The interval that you specify in the DataWorks console is measured in minutes. Pay attention to the conversion between the units of time when you call the operation.

Parameter	Type	Required	Example	Description
RerunMode	String	No	ALL_ALLOWED	Specifies whether the node that corresponds to the file can be rerun. Valid values: • ALL_ALLOWED: The node can be rerun regardless of whether it is successfully run or fails to run. • FAILURE_ALLOWED: The node can be rerun only after it fails to run. • ALL_DENIED: The node cannot be rerun regardless of whether it is successfully run or fails to run. This parameter corresponds to the Rerun parameter in the Schedule section of the Properties tab in the DataWorks console.
Stop	Boolean	No	false	Specifies whether the scheduling for the node is suspended Valid values: • true: The scheduling for the node is suspended. • false: The scheduling for the node is not suspended. This parameter corresponds to the Recurrence parameter in the Schedule section of the Properties tab in the DataWorks console.
ParaValue	String	No	x=a y=b z=c	The scheduling parameters of the node. This parameter corresponds to the Parameters section of the Properties tab in the DataWorks console. For more information about the configurations of the scheduling parameters, see Configure scheduling parameters.
StartEffectDate	Long	No	936923400000	The start time of automatic scheduling. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. This parameter corresponds to the Validity Period parameter in the Schedule section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
EndEffectDate	Long	No	4155787800000	The end time of automatic scheduling. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. This parameter corresponds to the Validity Period parameter in the Schedule section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
CronExpress	String	No	00 00-59/5 1-23 * * ?	The CRON expression that represents the automatic scheduling policy of the node. This parameter corresponds to the Cron Expression parameter in the Schedule section of the Properties tab in the DataWorks console. After you configure the Scheduling Cycle and Run At parameters in the DataWorks console, DataWorks generates the value of the Cron Expression parameter. Examples: • CRON expression for a node that is scheduled to run at 05:30 every day: `00 30 05 * * ?` • CRON expression for a node that is scheduled to run at the fifteenth minute of each hour: `00 15 * * * ?` • CRON expression for a node that is scheduled to run every 10 minutes: `00 00/10 * * * ?` • CRON expression for a node that is scheduled to run every 10 minutes from 08:00 to 17:00 every day: `00 00-59/10 8-23 * * * ?` • CRON expression for a node that is scheduled to run at 00:20 on the first day of each month: `00 20 00 1 * ?` • CRON expression for a node that is scheduled to run every three months starting from 00:10 on January 1: `0 0 10 00 1 1-12/3 ?` • CRON expression for a node that is scheduled to run at 00:05 every Tuesday and Friday: `00 05 00 * * 2,5` The scheduling system of DataWorks imposes the following limits on CRON expressions: • A node can be scheduled to run at a minimum interval of 5 minutes. • A node can be scheduled to run at 00:05 every day at the earliest.

Parameter	Type	Required	Example	Description
CycleType	String	No	NOT_DAY	The type of the scheduling cycle. Valid values: NOT_DAY and DAY. The value NOT_DAY indicates that the node is scheduled to run by minute or hour. The value DAY indicates that the node is scheduled to run by day, week, or month. This parameter corresponds to the Scheduling Cycle parameter in the Schedule section of the Properties tab in the DataWorks console.
DependentType	String	No	USER_DEFINE	The type of the cross-cycle scheduling dependency of the node. Valid values: • SELF: The instance generated for the node in the current cycle depends on the instance generated for the node in the previous cycle. • CHILD: The instance generated for the node in the current cycle depends on the instances generated for the descendant nodes at the nearest level of the node in the previous cycle. • USER_DEFINE: The instance generated for the node in the current cycle depends on the instances generated for one or more specified nodes in the previous cycle. • NONE: No cross-cycle scheduling dependency type is selected for the node.
DependentNodeIdList	String	No	5,10,15,20	The ID of the node on which the node corresponding to the file depends when the DependentType parameter is set to USER_DEFINE. Multiple IDs are separated by commas (,). The value of this parameter is equivalent to the ID of the node that you specified after you select Previous Cycle and set Depend On to Other Nodes in the Dependencies section of the Properties tab in the DataWorks console.

Parameter	Type	Required	Example	Description
InputList	String	No	project_root,project.file1,project.001_out	The output name of the parent file on which the current file depends. If you specify multiple output names, separate them with commas (,). This parameter corresponds to the Output Name parameter under Parent Nodes in the Dependencies section of the Properties tab in the DataWorks console.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace name. You must configure this parameter or the ProjectId parameter to determine the DataWorks workspace to which the operation is applied.
FileId	Long	Yes	100000001	The ID of the file. You can call the ListFiles operation to obtain the ID.
OutputList	String	No	dw_project.ods_user_info_d	The output name of the current file. This parameter corresponds to the Output Name parameter in the Dependencies section of the Properties tab in the DataWorks console.
ResourceGroupIdentifier	String	No	default_group	The identifier of the resource group that is used to run the node. You can call the ListResourceGroups operation to query the available resource groups in the workspace.
ConnectionName	String	No	odps_first	The name of the connected data source that is used to run the node. You can call the ListDataSources operation to query the available data sources of the workspace.
Owner	String	No	18023848927592	The ID of the file owner.

Parameter	Type	Required	Example	Description
AutoParsing	Boolean	No	true	Specifies whether the automatic parsing feature is enabled for the file. Valid values: • true: The automatic parsing feature is enabled for the file. • false: The automatic parsing feature is not enabled for the file. This parameter corresponds to the Analyze Code parameter that is displayed after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.
SchedulerType	String	No	NORMAL	The scheduling type of the node. Valid values: • NORMAL: The node is an auto triggered node. • MANUAL: The node is a manually triggered node. Manually triggered nodes cannot be automatically triggered. They correspond to the nodes in the Manually Triggered Workflows pane. • PAUSE: The node is a paused node. • SKIP: The node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
AdvancedSettings	String	No	{"queue":"default","SPARK_CONF":"--conf spark.driver.memory=2g"}	The advanced configurations of the node. This parameter is valid only for an EMR Spark Streaming node or an EMR Streaming SQL node. This parameter corresponds to the Advanced Settings tab of the node in the DataWorks console. This parameter is configured in the JSON format.

Parameter	Type	Required	Example	Description
StartImmediately	Boolean	No	true	Specifies whether to immediately run a node after the node is deployed to the production environment. Valid values: • true: A node is immediately run after the node is deployed to the production environment. • false: A node is not immediately run after the node is deployed to the production environment. This parameter is valid only for an EMR Spark Streaming node or an EMR Streaming SQL node. This parameter corresponds to the Start Method parameter in the Schedule section of the Configure tab in the DataWorks console.
InputParameters	String	No	[{"ValueSource": "project_001.first_node:bizdate_param","ParameterName": "bizdate_input"}]	Input parameters of the node. This parameter is configured in the JSON format. For more information about the input parameters, refer to the InputParameters parameter in the Response parameters section of the GetFile operation. This parameter corresponds to the Input Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
OutputParameters	String	No	[{"Type": 1,"Value": "${bizdate}","ParameterName": "bizdate_param"}]	Output parameters of the node. This parameter is configured in the JSON format. For more information about the output parameters, refer to the OutputParameters parameter in the Response parameters section of the GetFile operation. This parameter corresponds to the Output Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
RequestId	String	0000-ABCD-EFGH-IJKLMNOPQ	The ID of the request. You can use the ID to troubleshoot issues.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateFile
&FileFolderPath=Workflow/1/Data Integration/Folder 1/Folder 2
&ProjectId=10000
&FileName=ods_user_info_d
&FileDescription=File description
&Content=SELECT "1";
&AutoRerunTimes=3
&AutoRerunIntervalMillis=120000
&RerunMode=ALL_ALLOWED
&Stop=false
&ParaValue=x=a y=b z=c
&StartEffectDate=936923400000
&EndEffectDate=4155787800000
&CronExpress=00 00-59/5 1-23 * * ?
&CycleType=NOT_DAY
&DependentType=USER_DEFINE
&DependentNodeIdList=5,10,15,20
&InputList=project_root,project.file1,project.001_out
&ProjectIdentifier=dw_project
&FileId=100000001
&OutputList=dw_project.ods_user_info_d
&ResourceGroupIdentifier=default_group
&ConnectionName=odps_first
&Owner=18023848927592
&AutoParsing=true
&SchedulerType=NORMAL
&AdvancedSettings={"queue":"default","SPARK_CONF":"--conf spark.driver.memory=2g"}
&StartImmediately=true
&InputParameters=[{"ValueSource": "project_001.first_node:bizdate_param","ParameterName": "b
izdate_input"}]
&OutputParameters=[{"Type": 1,"Value": "${bizdate}","ParameterName": "bizdate_param"}]
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateFileResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0000-ABCD-EFGH-IJKLMNOPQ</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
</UpdateFileResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0000-ABCD-EFGH-IJKLMNOPQ",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

4.16. GetFolder

Queries the details of a folder.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetFolder	The operation that you want to perform.
FolderId	String	Yes	273****	The ID of the folder. You can call the ListFolders operation to query the ID. You must specify either this parameter or the FolderPath parameter.
FolderPath	String	Yes	Workflow/1/MaxCompute/ods	The path of the folder. You can call the ListFolders operation to query the path. You must specify either this parameter or the FolderId parameter.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Settings panel to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the folder.
FolderId	String	2735****	The ID of the folder.
FolderPath	String	Workflow/1/MaxCompute/ods	The path of the folder.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetFolder
&FolderId=273****
&FolderPath=Workflow/1/MaxCompute/ods
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <FolderPath>Workflow/1/MaxCompute/ods</FolderPath>
    <FolderId>2735****</FolderId>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": {
        "FolderPath": "Workflow/1/MaxCompute/ods",
        "FolderId": "2735****"
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.17. ListFileVersions

Queries file versions.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListFileVersions	The operation that you want to perform.
FileId	Long	Yes	100000001	The ID of the file. You can call the ListFiles operation to query the ID.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can click the Workspace Manage icon in the upper-right corner of the DataStudio page to go to the Workspace Management page and view the workspace ID.
RegionId	String	Yes	cn-zhangjiakou	The region ID.
ProjectIdentifier	String	No	dw_project	The unique identifier of the DataWorks workspace. You can click the identifier in the upper-left corner of the DataStudio page to switch to another workspace. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Default value:10. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The file versions returned.

Parameter	Type	Example	Description
FileVersions	Array of FileVersion		The details of the file version.
ChangeType	String	UPDATE	The type of the change to the file of the current version. Valid values: CREATE, UPDATE, and DELETE.
Comment	String	Second version	The description of the file version.
CommitTime	Long	1593881265000	The time when the file version was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
CommitUser	String	73842342****	The ID of the Alibaba Cloud account used to create the file of the current version.
FileContent	String	SHOW TABLES;	The code in the file of the current version.
FileName	String	ods_user_info_d	The name of the file of the current version.
FilePropertyContent	String	{"fileName":"ods_user_info_d","fileType":10}	The basic information about the file of the current version.
FileVersion	Integer	2	The version of the file.
IsCurrentProd	Boolean	false	Indicates whether the file version is the same as the latest file version in the production environment.
NodeContent	String	{"cycleType":0,"cronExpress":"00 05 00 * * ?"}	The scheduling configurations for the node that corresponds to the file of the current version.
NodeId	Long	1234	The ID of the auto triggered node that corresponds to the file of the current version.

Parameter	Type	Example	Description
Status	String	COMMITTED	The status of the file of the current version. Valid values: COMMITTING, COMMITTED, CHECK_OK, PACKAGED, DEPLOYING, DEPLOYED, and CANCELLED.
UseType	String	NORMAL	The functional module to which the file belongs. Valid values: NORMAL, MANUAL, MANUAL_BIZ, SKIP, ADHOCQUERY, and COMPONENT. The value SKIP indicates that the node corresponding to the file is run in dry-run mode.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page.
TotalCount	Integer	13	The total number of entries returned.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListFileVersions
&FileId=100000001
&ProjectId=10000
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****Q</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TotalCount>13</TotalCount>
    <FileVersions>
        <Status>COMMITTED</Status>
        <CommitUser>73842342****</CommitUser>
        <Comment>Second version</Comment>
        <CommitTime>1593881265000</CommitTime>
        <FileName>ods_user_info_d</FileName>
        <FilePropertyContent>{"fileName":"ods_user_info_d","fileType":10}</FilePropertyConte
nt>
        <UseType>NORMAL</UseType>
        <IsCurrentProd>false</IsCurrentProd>
        <FileContent>SHOW TABLES;</FileContent>
        <ChangeType>UPDATE</ChangeType>
        <FileVersion>2</FileVersion>
        <NodeId>3000001</NodeId>
        <NodeContent>{"cycleType":0,"cronExpress":"00 05 00 * * ?"}</NodeContent>
    </FileVersions>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****Q",
    "HttpStatusCode": 200,
    "Data": {
        "TotalCount": 13,
        "FileVersions": {
            "Status": "COMMITTED",
            "CommitUser": "73842342****",
            "Comment": "Second version",
            "CommitTime": 1593881265000,
            "FileName": "ods_user_info_d",
            "FilePropertyContent": "{\"fileName\":\"ods_user_info_d\",\"fileType\":10}",
            "UseType": "NORMAL",
            "IsCurrentProd": false,
            "FileContent": "SHOW TABLES;",
            "ChangeType": "UPDATE",
            "FileVersion": 2,
            "NodeId": 3000001,
            "NodeContent": "{\"cycleType\":0,\"cronExpress\":\"00 05 00 * * ?\"}"
        },
        "PageSize": 10,
        "PageNumber": 1
    },
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted in a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

4.18. GetFile

Queries the details of a file.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetFile	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must configure this parameter or the ProjectIdentifier parameter to determine the DataWorks workspace to which the operation is applied.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace name. You must configure this parameter or the ProjectId parameter to determine the DataWorks workspace to which the operation is applied.
FileId	Long	No	100000001	The ID of the file. You can call the ListFiles operation to obtain the ID.
NodeId	Long	No	200000001	The ID of the node that is scheduled. You can call the ListFiles operation to obtain the node ID.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
Data	Object		The details of the file.
File	Object		The basic information about the file.
CommitStatus	Integer	0	Indicates whether the latest code in the file is committed. Valid values: 0 and 1. The value 0 indicates that the latest code in the file is not committed. The value 1 indicates that the latest code in the file is committed.
AutoParsing	Boolean	true	Indicates whether the automatic parsing feature is enabled for the file. Valid values: • true: The automatic parsing feature is enabled for the file. • false: The automatic parsing feature is not enabled for the file. This parameter corresponds to the Analyze Code parameter that is displayed after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.
Owner	String	7775674356****	The ID of the Alibaba Cloud account used by the file owner.
CreateTime	Long	1593879116000	The time when the file was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.

Parameter	Type	Example	Description
FileType	Integer	10	The type of the code for the file. Valid values: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 99 (zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (real-time synchronization), 1089 (cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (assignment), and 1221 (PyODPS 3).
CurrentVersion	Integer	3	The latest version number of the file.
BizId	Long	1000001	The ID of the workflow to which the file belongs. This parameter is deprecated and replaced by the BusinessId parameter.
LastEditUser	String	62465892****	The ID of the Alibaba Cloud account used to last modify the file.
FileName	String	ods_user_info_d	The name of the file.
ConnectionName	String	odps_first	The ID of the compute engine instance that is used to run the node that corresponds to the file.
UseType	String	NORMAL	The module to which the file belongs. Valid values: • NORMAL: The file is used for DataStudio. • MANUAL: The file is used for a manually triggered node. • MANUAL_BIZ: The file is used for a manually triggered workflow. • SKIP: The file is used for a dry-run DataStudio node. • ADHOCQUERY: The file is used for an ad hoc query. • COMPONENT: The file is used for a snippet.

Parameter	Type	Example	Description
FileFolderId	String	2735c2****	The ID of the folder to which the file belongs.
ParentId	Long	-1	The ID of the node group file to which the current file belongs. This parameter is returned only if the current file is an inner file of the node group file.
CreateUser	String	424732****	The ID of the Alibaba Cloud account used to create the file.
IsMaxCompute	Boolean	true	Indicates whether the file needs to be uploaded to MaxCompute. This parameter is returned only if the file is a MaxCompute resource file.
BusinessId	Long	1000001	The ID of the workflow to which the file belongs.
FileDescription	String	My first DataWorks file	The description of the file.
DeletedStatus	String	RECYCLE	The status of the file. Valid values: • NORMAL: The file is not deleted. • RECYCLE_BIN: The file is stored in the recycle bin. • DELETED: The file is deleted.
LastEditTime	Long	1593879116000	The time when the file was last modified. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
Content	String	SHOW TABLES;	The code in the file.
NodeId	Long	300001	The ID of the auto triggered node that is generated in the scheduling system after the file is committed.

Parameter	Type	Example	Description
AdvancedSettings	String	{"queue":"default","SPARK_CONF":"--conf spark.driver.memory=2g"}	The advanced configurations of the node. This parameter is valid only for an EMR Spark Streaming node or an EMR Streaming SQL node. This parameter corresponds to the Advanced Settings tab of the node in the DataWorks console. This parameter is configured in the JSON format.
NodeConfiguration	Object		The scheduling configurations of the file.
RerunMode	String	ALL_ALLOWED	Indicates whether the node that corresponds to the file can be rerun. Valid values: • ALL_ALLOWED: The node can be rerun regardless of whether it is successfully run or fails to run. • FAILURE_ALLOWED: The node can be rerun only after it fails to run. • ALL_DENIED: The node cannot be rerun regardless of whether it is successfully run or fails to run. This parameter corresponds to the Rerun parameter in the Schedule section of the Properties tab in the DataWorks console.
SchedulerType	String	NORMAL	The scheduling type of the node. Valid values: • NORMAL: The node is an auto triggered node. • MANUAL: The node is a manually triggered node. Manually triggered nodes cannot be automatically triggered. They correspond to the nodes in the Manually Triggered Workflows pane. • PAUSE: The node is a paused node. • SKIP: The node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.

Parameter	Type	Example	Description
Stop	Boolean	false	Indicates whether the scheduling for the node is suspended Valid values: • true: The scheduling for the node is suspended. • false: The scheduling for the node is not suspended. This parameter corresponds to the Recurrence parameter in the Schedule section of the Properties tab in the DataWorks console.
ParaValue	String	a=x b=y	The scheduling parameters of the node. This parameter corresponds to the Parameters section of the Properties tab in the DataWorks console. For more information about the configurations of the scheduling parameters, see Configure scheduling parameters.
StartEffectDate	Long	936923400000	The start time of automatic scheduling. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. This parameter corresponds to the Validity Period parameter in the Schedule section of the Properties tab in the DataWorks console.
EndEffectDate	Long	4155787800000	The end time of automatic scheduling. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. This parameter corresponds to the Validity Period parameter in the Schedule section of the Properties tab in the DataWorks console.

Parameter	Type	Example	Description
CycleType	String	DAY	The type of the scheduling cycle. Valid values: NOT_DAY and DAY. The value NOT_DAY indicates that the node is scheduled to run by minute or hour. The value DAY indicates that the node is scheduled to run by day, week, or month. This parameter corresponds to the Scheduling Cycle parameter in the Schedule section of the Properties tab in the DataWorks console.
DependentNodeIdList	String	5,10,15,20	The ID of the node on which the node corresponding to the file depends when the DependentType parameter is set to USER_DEFINE. Multiple IDs are separated by commas (,). The value of this parameter is equivalent to the ID of the node that you specified after you select Previous Cycle and set Depend On to Other Nodes in the Dependencies section of the Properties tab in the DataWorks console.
ResourceGroupId	Long	375827434852437	The ID of the resource group that is used to run the node. You can call the ListResourceGroups operation to query the available resource groups in the workspace.

Parameter	Type	Example	Description
DependentType	String	USER_DEFINE	The type of the cross-cycle scheduling dependency of the node. Valid values: • SELF: The instance generated for the node in the current cycle depends on the instance generated for the node in the previous cycle. • CHILD: The instance generated for the node in the current cycle depends on the instances generated for the descendant nodes at the nearest level of the node in the previous cycle. • USER_DEFINE: The instance generated for the node in the current cycle depends on the instances generated for one or more specified nodes in the previous cycle. • NONE: No cross-cycle scheduling dependency type is selected for the node.
AutoRerunTimes	Integer	3	The number of automatic reruns that are allowed after an error occurs.
AutoRerunIntervalMillis	Integer	120000	The interval between automatic reruns after an error occurs. Unit: milliseconds. This parameter corresponds to the Rerun Interval parameter that is displayed after the Auto Rerun upon Error check box is selected in the Schedule section of the Properties tab in the DataWorks console. The interval that you specify in the DataWorks console is measured in minutes. Pay attention to the conversion between the units of time when you call the operation.
CronExpress	String	00 05 00 * * ?	The CRON expression that represents the periodic scheduling policy of the node.
InputList	Array of NodeInputOutput		The output names of the parent files on which the current file depends.

Parameter	Type	Example	Description
Input	String	project.001_out	The output name of the parent file on which the current file depends. This parameter corresponds to the Output Name parameter under Parent Nodes after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.
ParseType	String	MANUAL	The mode of the configuration file dependency. Valid values: • MANUAL: Scheduling dependencies are manually configured. • AUTO: Scheduling dependencies are automatically parsed.
OutputList	Array of NodeInputOutput		The output names of the current file. This parameter corresponds to the Output Name parameter under Output after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.
RefTableName	String	ods_user_info_d	The output table name of the current file. This parameter corresponds to the Output Table Name parameter under Output after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.
Output	String	dw_project.002_out	The output name of the current file. This parameter corresponds to the Output Name parameter under Output after Same Cycle is selected in the Dependencies section of the Properties tab in the DataWorks console.

Parameter	Type	Example	Description
StartImmediately	Boolean	true	Indicates whether a node is immediately run after the node is deployed to the production environment. This parameter is valid only for an EMR Spark Streaming node or an EMR Streaming SQL node. This parameter corresponds to the Start Method parameter in the Schedule section of the Configure tab in the DataWorks console.
InputParameters	Array of InputContextParameter		Input parameters of the node. This parameter corresponds to the Input Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
ParameterName	String	input	The name of the input parameter of the node. In the code, you can use the ${...} method to reference the input parameter of the node. This parameter corresponds to the Parameter Name parameter in the Input Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
ValueSource	String	project_001.parent_node:outputs	The value source of the input parameter of the node. This parameter corresponds to the Value Source parameter in the Input Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
OutputParameters	Array of OutputContextParameter		Output parameters of the node. This parameter corresponds to the Output Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.

Parameter	Type	Example	Description
ParameterName	String	output	The name of the output parameter of the node. This parameter corresponds to the Parameter Name parameter in the Output Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
Value	String	${bizdate}	The value of the output parameter of the node. This parameter corresponds to the Value parameter in the Output Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
Type	String	1	The type of the output parameter of the node. Valid values: • 1: indicates a constant. • 2: indicates a variable. • 3: indicates a pass-through variable. This parameter corresponds to the Type parameter in the Output Parameters table in the Input and Output Parameters section of the Properties tab in the DataWorks console.
Description	String	It's a context output parameter.	The description of the output parameter of the node.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetFile
&ProjectId=10000
&ProjectIdentifier=dw_project
&FileId=100000001
&NodeId=200000001
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetFileResponse>
    <HttpStatusCode>200</HttpStatusCode>
```

```
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <File>
            <CommitStatus>0</CommitStatus>
            <AutoParsing>true</AutoParsing>
            <Owner>7775674356****</Owner>
            <CreateTime>1593879116000</CreateTime>
            <FileType>10</FileType>
            <CurrentVersion>3</CurrentVersion>
            <BizId>1000001</BizId>
            <LastEditUser>62465892****</LastEditUser>
            <FileName>ods_user_info_d</FileName>
            <ConnectionName>odps_first</ConnectionName>
            <UseType>NORMAL</UseType>
            <FileFolderId>2735c2****</FileFolderId>
            <ParentId>-1</ParentId>
            <CreateUser>424732****</CreateUser>
            <IsMaxCompute>true</IsMaxCompute>
            <BusinessId>1000001</BusinessId>
            <FileDescription>My first DataWorks file</FileDescription>
            <DeletedStatus>RECYCLE</DeletedStatus>
            <LastEditTime>1593879116000</LastEditTime>
            <Content>SHOW TABLES;</Content>
            <NodeId>300001</NodeId>
            <AdvancedSettings>{"queue":"default","SPARK_CONF":"--conf spark.driver.memory=2g
"}</AdvancedSettings>
        </File>
        <NodeConfiguration>
            <RerunMode>ALL_ALLOWED</RerunMode>
            <SchedulerType>NORMAL</SchedulerType>
            <Stop>false</Stop>
            <ParaValue>a=x b=y</ParaValue>
            <StartEffectDate>936923400000</StartEffectDate>
            <EndEffectDate>4155787800000</EndEffectDate>
            <CycleType>DAY</CycleType>
            <DependentNodeIdList>5,10,15,20</DependentNodeIdList>
            <ResourceGroupId>375827434852437</ResourceGroupId>
            <DependentType>USER_DEFINE</DependentType>
            <AutoRerunTimes>3</AutoRerunTimes>
            <AutoRerunIntervalMillis>120000</AutoRerunIntervalMillis>
            <CronExpress>00 05 00 * * ?</CronExpress>
            <InputList>
                <Input>project.001_out</Input>
                <ParseType>MANUAL</ParseType>
            </InputList>
            <OutputList>
                <RefTableName>ods_user_info_d</RefTableName>
                <Output>dw_project.002_out</Output>
            </OutputList>
            <StartImmediately>true</StartImmediately>
            <InputParameters>
```

```
                <ParameterName>input</ParameterName>
                <ValueSource>project_001.parent_node:outputs</ValueSource>
            </InputParameters>
            <OutputParameters>
                <ParameterName>output</ParameterName>
                <Value>${bizdate}</Value>
                <Type>1</Type>
                <Description>It's a context output parameter.</Description>
            </OutputParameters>
        </NodeConfiguration>
    </Data>
</GetFileResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true,
  "Data" : {
    "File" : {
      "CommitStatus" : 0,
      "AutoParsing" : true,
      "Owner" : "7775674356****",
      "CreateTime" : 1593879116000,
      "FileType" : 10,
      "CurrentVersion" : 3,
      "BizId" : 1000001,
      "LastEditUser" : "62465892****",
      "FileName" : "ods_user_info_d",
      "ConnectionName" : "odps_first",
      "UseType" : "NORMAL",
      "FileFolderId" : "2735c2****",
      "ParentId" : -1,
      "CreateUser" : "424732****",
      "IsMaxCompute" : true,
      "BusinessId" : 1000001,
      "FileDescription" : "My first DataWorks file",
      "DeletedStatus" : "RECYCLE",
      "LastEditTime" : 1593879116000,
      "Content" : "SHOW TABLES;",
      "NodeId" : 300001,
      "AdvancedSettings" : "{\"queue\":\"default\",\"SPARK_CONF\":\"--conf spark.driver.memo
ry=2g\"}"
    },
    "NodeConfiguration" : {
      "RerunMode" : "ALL_ALLOWED",
      "SchedulerType" : "NORMAL",
      "Stop" : false,
      "ParaValue" : "a=x b=y",
```

```
      "StartEffectDate" : 936923400000,
      "EndEffectDate" : 4155787800000,
      "CycleType" : "DAY",
      "DependentNodeIdList" : "5,10,15,20",
      "ResourceGroupId" : 375827434852437,
      "DependentType" : "USER_DEFINE",
      "AutoRerunTimes" : 3,
      "AutoRerunIntervalMillis" : 120000,
      "CronExpress" : "00 05 00 * * ?",
      "InputList" : {
        "Input" : "project.001_out",
        "ParseType" : "MANUAL"
      },
      "OutputList" : {
        "RefTableName" : "ods_user_info_d",
        "Output" : "dw_project.002_out"
      },
      "StartImmediately" : true,
      "InputParameters" : {
        "ParameterName" : "input",
        "ValueSource" : "project_001.parent_node:outputs"
      },
      "OutputParameters" : {
        "ParameterName" : "output",
        "Value" : "${bizdate}",
        "Type" : 1,
        "Description" : "It's a context output parameter."
      }
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.

HTTP status code	Error code	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

4.19. ListFolders

Queries folders.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListFolders	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page to return.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ParentFolderPath	String	Yes	Workflow/1/MaxCompute	The path of the parent folder.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Settings panel to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The folders returned.
Folders	Array of Folders		The details of the folder.
FolderId	String	2735c2****	The ID of the folder.
FolderPath	String	Workflow/1/MaxCompute/ods	The path of the folder.
PageNumber	Integer	1	The page number of the returned page.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries on the returned page.
TotalCount	Integer	13	The total number of entries returned.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListFolders
&PageNumber=1
&PageSize=10
&ParentFolderPath=Workflow/1/MaxCompute
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TotalCount>13</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
    <Folders>
        <FolderPath>Workflow/1/MaxCompute/ods</FolderPath>
        <FolderId>2735c2****</FolderId>
    </Folders>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": {
        "TotalCount": 13,
        "PageSize": 10,
        "PageNumber": 1,
        "Folders": {
            "FolderPath": "Workflow/1/MaxCompute/ods",
            "FolderId": "2735c2****"
        }
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.20. DeployFile

Deploys a file in DataStudio to the production environment. After you call the DeployFile operation to deploy the file to the production environment, you can call the GetDeployment operation to poll the status of an asynchronous deployment task based on the return value of the Data parameter.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeployFile	The operation that you want to perform.
FileId	Long	Yes	10000001	The ID of the file. You can call the ListFiles operation to query the ID of the file. You must specify one of the NodeId and FileId parameters.
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which DataWorks is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must set one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace name. You must set one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
Comment	String	No	Deploy for the first time	The description of the deployment operation.
NodeId	Long	No	2000001	The ID of the node in the scheduling system that corresponds to the file to be deployed. You must set one of the NodeId and FileId parameters.

Response parameters

Parameter	Type	Example	Description
Data	Long	30000001	The ID of the deployment task. You call the GetDeployment operation to query the details of the deployment task by specifying the ID.

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot errors based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeployFile
&FileId=10000001
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>30000001</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": 30000001,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests were submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.21. UpdateUdfFile

Updates the file information about a function.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateUdfFile	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ClassName	String	Yes	com.alibaba.DataWorks.api.udf.StringConcat	The name of the class in which the function is defined. This parameter corresponds to the Class Name parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
FileId	String	Yes	10000001	The ID of the file.
FunctionType	String	Yes	STRING	The type of the function. Valid values: MATH, AGGREGATE, STRING, DATE, ANALYTIC, and OTHER. This parameter corresponds to the Function Type parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
RegionId	String	Yes	cn-zhangjaikou	The region ID.
Resources	String	Yes	string-concat-1.0.0.jar,commons-lang-2.6.jar	The names of the resources that are referenced by the function. This parameter corresponds to the Resources parameter in the Register Function section of the configuration tab of the function in the DataWorks console. Separate multiple resource names with commas (,).
FileFolderPath	String	No	Workflow/1/Function/String function	The path of the folder in which the function file is stored.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can click the Workspace Manage icon in the upper-right corner of the DataStudio page to go to the Workspace Management page and view the workspace ID.

Parameter	Type	Required	Example	Description
UdfDescription	String	No	New string that is generated after multiple strings are concatenated	The description of the function. This parameter corresponds to the Description parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
CmdDescription	String	No	StringConcat(String... substrs)	The syntax used for calling the function. This parameter corresponds to the Expression Syntax parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
ParameterDescription	String	No	Strings to be concatenated	The description of the input parameters of the function. This parameter corresponds to the Parameter Description parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
ReturnValue	String	No	New string that is generated after all strings are concatenated in sequence	The description of the return value of the function. This parameter corresponds to the Return Value parameter in the Register Function section of the configuration tab of the function in the DataWorks console.
Example	String	No	StringConcat('a', 'b', 'c')	The example for calling the function. This parameter corresponds to the Example parameter in the Register Function section of the configuration tab of the function in the DataWorks console.

Parameter	Type	Required	Example	Description
ProjectIdentifier	String	No	dw_project	The unique identifier of the DataWorks workspace. You can click the identifier in the upper-left corner of the DataStudio page to switch to another workspace. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateUdfFile
&ClassName=com.alibaba.dataworks.api.udf.StringConcat
&FileFolderPath=Workflow/1/Function/String function
&FileId=10000001
&FunctionType=STRING
&ProjectId=10000
&RegionId=cn-zhangjaikou
&Resources=string-concat-1.0.0.jar,commons-lang-2.6.jar
&UdfDescription=New string that is generated after multiple strings are concatenated
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Success": true
}
```

Error codes

HttpCode	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.22. GetBusiness

Queries the details of a workflow.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetBusiness	The operation that you want to perform.
BusinessId	Long	Yes	1000000001	The ID of the workflow. You can call the ListBusiness operation to query the ID.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Settings panel to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the workflow.

Parameter	Type	Example	Description
BusinessId	Long	1000001	The ID of the workflow.
BusinessName	String	1	The name of the workflow.
Description	String	My first workflow	The description of the workflow.
Owner	String	20000****	The Alibaba Cloud account ID of the workflow owner.
ProjectId	String	10000	The ID of the workspace to which the workflow belongs.
UseType	String	NORMAL	The module to which the workflow belongs. Valid values: NORMAL and MANUAL_BIZ.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetBusiness
&BusinessId=1000000001
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Owner>20000****</Owner>
    <Description>My first workflow</Description>
    <BusinessName>1</BusinessName>
    <UseType>NORMAL</UseType>
    <ProjectId>10000</ProjectId>
    <BusinessId>1000001</BusinessId>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": {
        "Owner": "20000****",
        "Description": "My first workflow",
        "BusinessName": "1",
        "UseType": "NORMAL",
        "ProjectId": 10000,
        "BusinessId": 1000001
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.23. UpdateFolder

Updates the information about a folder.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateFolder	The operation that you want to perform.
FolderId	String	Yes	2735c2c19d58	The ID of the folder. You can call the ListFolders operation to query the ID.
FolderName	String	Yes	MySecondFolder	The name of the folder.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Settings panel to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateFolder
&FolderId=2735c2c19d58
&FolderName=MySecondFolder
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.24. CheckFileDeployment

Returns the check events for a file. After you commit your file that is created on the DataStudio page, the system checks the file and returns check events before the system deploys the file. You must determine whether the check can be continued based on the events. You can call this operation to return the check events for the file that you want to deploy to DataWorks.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CheckFileDeployment	The operation that you want to perform.
CheckerInstanceId	String	Yes	66_123455623_2	The ID of the instance to which the file checker belongs. You can obtain the ID from the CheckerInstanceId parameter in the check event logs returned by DataWorks.
RegionId	String	Yes	cn-hangzhou	The ID of the region where DataWorks is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
Status	String	Yes	OK	The check status of the file that you want to deploy. Valid values: • OK: The file passes the check. • WARN: The file passes the check, but an alert is reported. • FAIL: The file fails the check.
CheckDetailUrl	String	No	https://result.aliyun.com/?checkerInstanceId=	This parameter is deprecated.

Response parameters

Parameter	Type	Example	Description
RequestId	String	86d5a5ac-0cc0-4c5f-a374-a15713b252ab	The ID of the request. You can use the ID to troubleshoot issues.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CheckFileDeployment
&CheckerInstanceId=66_123455623_2
&RegionId=cn-hangzhou
&Status=OK
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>86d5a5ac-0cc0-4c5f-a374-a15713b252ab</RequestId>
```

`JSON` format

```
{
    "RequestId": "86d5a5ac-0cc0-4c5f-a374-a15713b252ab"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests were submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

4.25. ListDeployments

Queries deployment tasks.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDeployments	The operation that you want to perform.

Parameter	Type	Required	Example	Description
Region	String	No	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. This parameter is deprecated. Do not use this parameter.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace name. You must specify one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace ID. You must specify one of the ProjectId and ProjectIdentifier parameters to determine the DataWorks workspace to which the operation is applied.
Creator	String	No	20030****	The ID of the Alibaba Cloud account used by the user who created the deployment tasks.
EndCreateTime	Long	No	1593877765000	The time when the deployment tasks to be queried were created. This value must be a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
Executor	String	No	2003****	The ID of the Alibaba Cloud account used by the user who runs the deployment tasks.

Parameter	Type	Required	Example	Description
EndExecuteTime	Long	No	1593877765000	The time when the deployment tasks were run. This value must be a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
Status	Integer	No	1	The status of the deployment tasks. Valid values: • 0: The deployment tasks are ready. • 1: The deployment tasks are successful. • 2: The deployment tasks fail. • 6: The deployment tasks are rejected.
Keyword	String	No	hello	The keyword that is contained in the names of the deployment tasks. The keyword is used to search for deployment tasks in fuzzy mode.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	20	The number of entries to return per page. Default value: 10. The number cannot exceed 100.
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG	The ID of the request. You can troubleshoot errors based on the ID.

Parameter	Type	Example	Description
Data	Object		The return results.
PageNumber	Long	1	The page number of the returned page.
PageSize	Long	10	The number of entries returned per page.
TotalCount	Long	13	The total number of entries returned.
Deployments	Array of Deployment		The information about the deployment tasks.
Status	Integer	1	The status of the deployment tasks. Valid values: • 0: The deployment tasks are ready. • 1: The deployment tasks are successful. • 2: The deployment tasks fail. • 6: The deployment tasks are rejected.
ErrorMessage	String	OK	The error message returned when the deployment task failed.
CreateTime	Long	1593877765000	The time when the deployment task was created.
Executor	String	2003****	The ID of the Alibaba Cloud account used by the user who ran the deployment tasks.
Creator	String	2003****	The ID of the Alibaba Cloud account used by the user who created the deployment tasks.
ExecuteTime	Long	1593877765000	The time when the deployment task was run. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
Name	String	auto_created	The name of the deployment task.

Parameter	Type	Example	Description
Id	Long	11111	The ID of the deployment task. You can call the GetDeployment operation to query the details of the deployment task based on the ID.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListDeployments
&ProjectIdentifier=dw_project
&ProjectId=10000
&Creator=20030****
&EndCreateTime=1593877765000
&Executor=2003****
&EndExecuteTime=1593877765000
&Status=1
&Keyword=hello
&PageNumber=1
&PageSize=20
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListDeploymentsResponse>
    <RequestId>0000-ABCD-EFG</RequestId>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>13</TotalCount>
        <Deployments>
            <Status>1</Status>
            <ErrorMessage>OK</ErrorMessage>
            <CreateTime>1593877765000</CreateTime>
            <Executor>2003****</Executor>
            <Creator>2003****</Creator>
            <ExecuteTime>1593877765000</ExecuteTime>
            <Name>auto_created</Name>
            <Id>11111</Id>
        </Deployments>
    </Data>
</ListDeploymentsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG",
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 13,
    "Deployments" : {
      "Status" : 1,
      "ErrorMessage" : "OK",
      "CreateTime" : 1593877765000,
      "Executor" : "2003****",
      "Creator" : "2003****",
      "ExecuteTime" : 1593877765000,
      "Name" : "auto_created",
      "Id" : 11111
    }
  }
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

4.26. UpdateIDEEventResult

Returns the check results of an extension point event to DataStudio after the extension point event is triggered and an extension checks the extension point event.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateIDEEventResult	The operation that you want to perform.
MessageId	String	No	8abcb91f-d266-4073-b907-2ed670378ed1	The ID of the message. You can obtain the ID from the received message when the extension point event is triggered.
RegionId	String	No	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ExtensionCode	String	No	8abcb91f-d266-4073-b907-2ed670378ed1	The ID of the extension. You can log on to the DataWorks console and go to the Extensions tab of the Open Platform page to view the ID.
CheckResult	String	No	OK	The check status of the extension point event. Valid values: • OK: The event passes the check. • FAIL: The event fails to pass the check. You must check and handle the reported error at the earliest opportunity to ensure that your program is run as expected. • WARN: The event passes the check, but an alert is reported.

Parameter	Type	Required	Example	Description
CheckResultTip	String	No	Succeeded	The summary information of the check result. The information is displayed in DataStudio. If an alert is reported or the event fails the check, you can troubleshoot errors based on the information.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8abcb91f-d266-4073-b907-2ed670378ed1	The ID of the request. You can troubleshoot errors based on the ID.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateIDEEventResult
&MessageId=8abcb91f-d266-4073-b907-2ed670378ed1
&ExtensionCode=8abcb91f-d266-4073-b907-2ed670378ed1
&CheckResult=OK
&CheckResultTip=Succeeded
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateIDEEventResultResponse>
    <RequestId>8abcb91f-d266-4073-b907-2ed670378ed1</RequestId>
</UpdateIDEEventResultResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "8abcb91f-d266-4073-b907-2ed670378ed1"
}
```

Error codes

Http status code	Error code	Error message	Description
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

4.27. GetIDEEventDetail

Queries the data snapshot of an extension point based on the ID of an open message when the related extension point event is triggered.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetIDEEventDetail	The operation that you want to perform.

Parameter	Type	Required	Example	Description
MessageId	String	Yes	8abcb91f-d266-4073-b907-2ed670378ed1	The ID of the message. You can obtain the ID from the received message when the extension point event is triggered.
ProjectId	Long	Yes	10000	The ID of the workspace. You can obtain the ID from the message.
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8abcb91f-d266-4073-b907-2ed670378ed1	The ID of the request. You can troubleshoot errors based on the ID.
EventDetail	Object		The data snapshot that is generated when the extension point event is triggered. The fields contained in data snapshots vary based on the types of the triggered extension point events. For more information, see the description of the fields.
FileExecutionCommand	Object		The data snapshot when the code in the file is run. The value of this parameter is not empty only when the message type is IDE_FILE_EXECUTE_BEFORE.
FileId	Long	1234123	The ID of the file.
DataSourceName	String	odps_first	The name of the compute engine instance with which the file is associated.
Content	String	SHOW TABLES;	The code in the file of the current version.

Parameter	Type	Example	Description
FileType	Long	10	The type of the code in the file. Examples: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 99 (zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (real-time sync), 1089 (cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (assignment), and 1221 (PyODPS 3).
DeletedFile	Object		The data snapshot when the file is deleted. The value of this parameter is not empty only when the message type is IDE_FILE_DELETE_BEFORE.
Owner	String	7384234****	The owner of the file.
FileType	Long	10	The type of the code in the file. Examples: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 99 (zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (real-time sync), 1089 (cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (assignment), and 1221 (PyODPS 3).
CurrentVersion	Long	1	The latest version number of the file.
BusinessId	Long	74328	The ID of the workflow to which the file belongs.
FileName	String	hello_dataworks.sql	The name of the file.
DataSourceName	String	odps_first	The name of the compute engine instance with which the file is associated.

Parameter	Type	Example	Description
UseType	String	NORMAL	The module to which the file belongs. Valid values: • NORMAL: The file is used for DataStudio. • MANUAL: The file is used for a manually triggered node. • MANUAL_BIZ: The file is used for a manually triggered workflow. • SKIP: The file is used for a dry-run DataStudio node. • ADHOCQUERY: The file is used for an ad hoc query. • COMPONENT: The file is used for a snippet.
FolderId	String	aldurie78l2falure	The ID of the folder to which the file belongs. You can call the GetFolder operation to query the details of the file based on the folder ID.
ParentFileId	Long	1234122	The ID of the do-while node or for-each node that corresponds to the file.
Content	String	SHOW TABLES;	The code in the file of the current version.
NodeId	Long	421429	The ID of the node that is scheduled.
FileId	Long	1234123	The ID of the file.
CommittedFile	Object		The data snapshot when the file is committed and deployed. The value of this parameter is not empty only when the message type is IDE_FILE_SUBMIT_BEFORE or IDE_FILE_DEPLOY_BEFORE.
FileId	Long	1234123	The ID of the file.
Content	String	SHOW TABLES;	The code in the file of the current version.

Parameter	Type	Example	Description
Committor	String	7384234****	The ID of the Alibaba Cloud account that is used to create the file of the current version.
FileType	Long	10	The type of the code in the file. Examples: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 99 (zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (real-time sync), 1089 (cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (assignment), and 1221 (PyODPS 3).
ChangeType	String	UPDATE	The type of the change to the file of the current version. Valid values: CREATE, UPDATE, and DELETE.
FileName	String	hello_dataworks.sql	The name of the file.
NodeId	Long	421429	The ID of the node that is scheduled.
Comment	String	Second version	The description of the file version.
UseType	String	NORMAL	The module to which the file belongs. Valid values: • NORMAL: The file is used for DataStudio. • MANUAL: The file is used for a manually triggered node. • MANUAL_BIZ: The file is used for a manually triggered workflow. • SKIP: The file is used for a dry-run DataStudio node. • ADHOCQUERY: The file is used for an ad hoc query. • COMPONENT: The file is used for a snippet.
FilePropertyContent	Object		The details of the file.

Parameter	Type	Example	Description
DataSourceName	String	odps_first	The name of the compute engine instance with which the file is associated.
ParentFileId	Long	1234122	The ID of the do-while node or for-each node that corresponds to the file.
BusinessId	Long	74328	The ID of the workflow to which the file belongs.
CurrentVersion	Long	1	The latest version number of the file.
Owner	String	7384234****	The owner of the file.
FolderId	String	aldurie78l2falure	The ID of the folder to which the file belongs. You can call the GetFolder operation to query the details of the file based on the folder ID.
NodeConfiguration	Object		The scheduling properties of the node that corresponds to the file.
RerunMode	String	ALL_ALLOWED	Indicates whether the node can be rerun. Valid values: • ALL_ALLOWED: The node can be rerun regardless of whether it is successfully run or fails to run. • FAILURE_ALLOWED: The node can be rerun only after it fails to run. • ALL_DENIED: The node cannot be rerun regardless of whether it is successfully run or fails to run. This parameter is equivalent to the Rerun parameter in the Schedule section of the Properties panel in the DataWorks console.

Parameter	Type	Example	Description
SchedulerType	String	NORMAL	The scheduling type of the node. Valid values: • NORMAL: The node is an auto triggered node. • MANUAL: The node is a manually triggered node. Manually triggered nodes cannot be automatically triggered. They correspond to the nodes in the Manually Triggered Workflows pane. • PAUSE: The node is a paused node. • SKIP: The node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
ParaValue	String	a=x b=y	The scheduling parameters. This parameter is equivalent to the configuration of the scheduling parameters in the Parameters section of the Properties panel in the DataWorks console. For more information, see Configure scheduling parameters.
CycleType	String	DAY	The type of the scheduling cycle of the node that corresponds to the file. Valid values: NOT_DAY and DAY. A value of NOT_DAY indicates that the node is scheduled to run by minute or hour. A value of DAY indicates that the node is scheduled to run by day, week, or month. This parameter is equivalent to the Scheduling Cycle parameter in the Schedule section of the Properties panel in the DataWorks console.
DependentNodeIdList	String	5,10,15,20	The IDs of the nodes on which the node corresponding to the file depends when the DependentType parameter is set to USER_DEFINE. Multiple IDs are separated by commas (,). This parameter is equivalent to the field that appears after Previous Cycle is selected and the Depend On parameter is set to Other Nodes in the Dependencies section of the Properties panel in the DataWorks console.

Parameter	Type	Example	Description
ResourceGroupId	Long	375827434852437	The ID of the resource group that is used to run the node that corresponds to the file. You can call the ListResourceGroups operation to query the available resource groups in the workspace.
AutoRerunTimes	Long	3	The number of times that the node corresponding to the file can be rerun.
AutoRerunIntervalMillis	Long	120000	The interval at which the node corresponding to the file is rerun. Unit: milliseconds.
CronExpress	String	00 05 00 * * ?	The CRON expression that is used to schedule the node corresponding to the file.
InputList	Array of Input		The output names of the parent files on which the current file depends.
Input	String	dw_project_root	The output names of the parent files on which the current file depends. This parameter is equivalent to the Output Name parameter under Parent Nodes in the Dependencies section of the Properties panel in the DataWorks console.
ParseType	String	MANUAL	The mode of the configuration file dependency. Valid values: • MANUAL: The scheduling dependencies are manually configured. • AUTO: The scheduling dependencies are automatically parsed.
OutputList	Array of Output		The output names of the current file. This parameter is equivalent to the Output Name parameter under Output in the Dependencies section of the Properties panel in the DataWorks console.

Parameter	Type	Example	Description
RefTableName	String	ods_user_info_d	The output table name of the current file. This parameter is equivalent to the Output Table Name parameter under Output in the Dependencies section of the Properties panel in the DataWorks console.
Output	String	dw_project.002_out	The output name of the current file. This parameter is equivalent to the Output Name parameter under Output in the Dependencies section of the Properties panel in the DataWorks console.
DependentType	String	USER_DEFINE	The type of the cross-cycle scheduling dependency of the node that corresponds to the file. Valid values: • SELF: The instance generated for the node in the current cycle depends on the instance generated for the node in the previous cycle. • CHILD: The instance generated for the node in the current cycle depends on the instances generated for the descendant nodes at the nearest level of the node in the previous cycle. • USER_DEFINE: The instance generated for the node in the current cycle depends on the instances generated for one or more specified nodes in the previous cycle. • NONE: No cross-cycle scheduling dependency type is selected for the node.
TableModel	Object		The data snapshot when the table is committed and deployed. The value of this parameter is not empty only when the message type is IDE_TABLE_SUBMIT_BEFORE or IDE_TABLE_DEPLOY_BEFORE.
Env	String	DEV	The environment in which the table is used. Valid values: • DEV: development environment • PROD: production environment
LifeCycle	Long	7	The lifecycle of the table. Unit: days.

Parameter	Type	Example	Description
TableName	String	tb_hello	The name of the table.
DataSourceName	String	odps_first	The name of the compute engine instance to which the table belongs.
Columns	Array of Column		The columns in the table.
ColumnName	String	ID	The name of the column.
ColumnType	String	BIGINT	The data type of the column.
IsPartitionColumn	Boolean	false	Indicates whether the column is a partition key column. Valid values: • true: The column is a partition key column. • false: The column is not a partition key column.
Comment	String	ID	The remarks of the column.
Comment	String	A new table	The description of the table.
Location	String	hdfs://path/to/object	The path of the table.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetIDEEventDetail
&MessageId=8abcb91f-d266-4073-b907-2ed670378ed1
&ProjectId=10000
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetIDEEventDetailResponse>
    <RequestId>8abcb91f-d266-4073-b907-2ed670378ed1</RequestId>
    <EventDetail>
        <FileExecutionCommand>
            <FileId>1234123</FileId>
            <DataSourceName>odps_first</DataSourceName>
```

```
            <DataSourceName>odps_first</DataSourceName>
            <Content>SHOW TABLES;</Content>
            <FileType>10</FileType>
        </FileExecutionCommand>
        <DeletedFile>
            <Owner>7384234****</Owner>
            <FileType>10</FileType>
            <CurrentVersion>1</CurrentVersion>
            <BusinessId>74328</BusinessId>
            <FileName>hello_dataworks.sql</FileName>
            <DataSourceName>odps_first</DataSourceName>
            <UseType>NORMAL</UseType>
            <FolderId>aldurie78l2falure</FolderId>
            <ParentFileId>1234122</ParentFileId>
            <Content>SHOW TABLES;</Content>
            <NodeId>421429</NodeId>
            <FileId>1234123</FileId>
        </DeletedFile>
        <CommittedFile>
            <FileId>1234123</FileId>
            <Content>SHOW TABLES;</Content>
            <Committor>7384234****</Committor>
            <FileType>10</FileType>
            <ChangeType>UPDATE</ChangeType>
            <FileName>hello_dataworks.sql</FileName>
            <NodeId>421429</NodeId>
            <Comment>Second version</Comment>
            <UseType>NORMAL</UseType>
            <FilePropertyContent>
                <DataSourceName>odps_first</DataSourceName>
                <ParentFileId>1234122</ParentFileId>
                <BusinessId>74328</BusinessId>
                <CurrentVersion>1</CurrentVersion>
                <Owner>7384234****</Owner>
                <FolderId>aldurie78l2falure</FolderId>
            </FilePropertyContent>
            <NodeConfiguration>
                <RerunMode>ALL_ALLOWED</RerunMode>
                <SchedulerType>NORMAL</SchedulerType>
                <ParaValue>a=x b=y</ParaValue>
                <CycleType>DAY</CycleType>
                <DependentNodeIdList>5,10,15,20</DependentNodeIdList>
                <ResourceGroupId>375827434852437</ResourceGroupId>
                <AutoRerunTimes>3</AutoRerunTimes>
                <AutoRerunIntervalMillis>120000</AutoRerunIntervalMillis>
                <CronExpress>00 05 00 * * ?</CronExpress>
                <InputList>
                    <Input>dw_project_root</Input>
                    <ParseType>MANUAL</ParseType>
                </InputList>
                <OutputList>
                    <RefTableName>ods_user_info_d</RefTableName>
                    <Output>dw_project.002_out</Output>
                </OutputList>
                <DependentType>USER_DEFINE</DependentType>
```

```
            </NodeConfiguration>
        </CommittedFile>
        <TableModel>
            <Env>DEV</Env>
            <LifeCycle>7</LifeCycle>
            <TableName>tb_hello</TableName>
            <DataSourceName>odps_first</DataSourceName>
            <Columns>
                <ColumnName>ID</ColumnName>
                <ColumnType>BIGINT</ColumnType>
                <IsPartitionColumn>false</IsPartitionColumn>
                <Comment>ID</Comment>
            </Columns>
            <Comment>A new table </Comment>
            <Location>hdfs://path/to/object</Location>
        </TableModel>
    </EventDetail>
</GetIDEEventDetailResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "8abcb91f-d266-4073-b907-2ed670378ed1",
  "EventDetail" : {
    "FileExecutionCommand" : {
      "FileId" : 1234123,
      "DataSourceName" : "odps_first",
      "Content" : "SHOW TABLES;",
      "FileType" : 10
    },
    "DeletedFile" : {
      "Owner" : "7384234****",
      "FileType" : 10,
      "CurrentVersion" : 1,
      "BusinessId" : 74328,
      "FileName" : "hello_dataworks.sql",
      "DataSourceName" : "odps_first",
      "UseType" : "NORMAL",
      "FolderId" : "aldurie78l2falure",
      "ParentFileId" : 1234122,
      "Content" : "SHOW TABLES;",
      "NodeId" : 421429,
      "FileId" : 1234123
    },
    "CommittedFile" : {
      "FileId" : 1234123,
      "Content" : "SHOW TABLES;",
      "Committor" : "7384234****",
      "FileType" : 10,
      "ChangeType" : "UPDATE",
      "FileName" : "hello_dataworks.sql",
      "NodeId" : 421429,
```

```
      "Comment": "Second version",
      "UseType" : "NORMAL",
      "FilePropertyContent" : {
        "DataSourceName" : "odps_first",
        "ParentFileId" : 1234122,
        "BusinessId" : 74328,
        "CurrentVersion" : 1,
        "Owner" : "7384234****",
        "FolderId" : "aldurie78l2falure"
      },
      "NodeConfiguration" : {
        "RerunMode" : "ALL_ALLOWED",
        "SchedulerType" : "NORMAL",
        "ParaValue" : "a=x b=y",
        "CycleType" : "DAY",
        "DependentNodeIdList" : "5,10,15,20",
        "ResourceGroupId" : 375827434852437,
        "AutoRerunTimes" : 3,
        "AutoRerunIntervalMillis" : 120000,
        "CronExpress" : "00 05 00 * * ?",
        "InputList" : {
          "Input" : "dw_project_root",
          "ParseType" : "MANUAL"
        },
        "OutputList" : {
          "RefTableName" : "ods_user_info_d",
          "Output" : "dw_project.002_out"
        },
        "DependentType" : "USER_DEFINE"
      }
    },
    "TableModel" : {
      "Env" : "DEV",
      "LifeCycle" : 7,
      "TableName" : "tb_hello",
      "DataSourceName" : "odps_first",
      "Columns" : {
        "ColumnName" : "ID",
        "ColumnType" : "BIGINT",
        "IsPartitionColumn" : false,
        "Comment" : "ID"
      },
      "Comment" : "A new table",
      "Location" : "hdfs://path/to/object"
    }
  }
}
```


Error codes

Http status code	Error code	Error message	Description
400	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

5.Data Integration

5.1. CreateDISyncTask

Creates a sync node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDISyncTask	The operation that you want to perform.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which you want to create the sync node. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
TaskContent	String	Yes	null	The configuration of the sync node to be created. This operation is equivalent to node creation by using the code editor in the DataWorks console. For more information, see Create a sync node by using the code editor. You can call the CreateDISyncTask operation to create only batch sync nodes.
TaskName	String	Yes	new_di_task	The name of the sync node.

Parameter	Type	Required	Example	Description
TaskParam	String	Yes	{"FileFolderPath": "Workflow/XXX/Data Integration","ResourceGroup":"S_res_group_XXX_XXXX"}	The settings that specify the storage path of the sync node and the resource group used by the node. The following fields are supported: • FileFolderPath: the storage path of the node. • ResourceGroup: the identifier of the resource group for Data Integration that is used by the node. To query the identifier of the resource group, call the ListResourceGroup operation.
TaskType	String	Yes	DI_OFFLINE	The type of the sync node. You can call the CreateDISyncTask operation to create only batch sync nodes. The value must be DI_OFFLINE.
ClientToken	String	No	0000-ABCD-EFG****	The client token that is used to ensure the idempotence of the request. This parameter can be left empty.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information that indicates whether the sync node was created.
FileId	Long	1000001	The ID of the created sync node.
Message	String	Invalid path: Workflow/xxxx/Data Integration	The reason why the sync node failed to be created.
Status	String	success	Indicates whether the sync node was created. Valid values: • success: The sync node was created. • fail: The sync node failed to be created.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateDISyncTask
&ProjectId=10000
&RegionId=cn-zhangjiakou
&TaskContent={"type":"job","version":"2.0","steps":[{"stepType":"mysql","parameter":{"envTyp
e":1,"datasource":"mysql_pub","column":["id","name","create_time","age","score","t_01"],"con
nection":[{"datasource":"mysql_pub","table":["u_pk"]}],"where":"","splitPk":"id","encoding":
"UTF-8"},"name":"Reader","category":"reader"},{"stepType":"odps","parameter":{"partition":"p
t=${bizdate}","truncate":true,"datasource":"odps_first","envType":1,"column":["id","name","c
reate_time","age","score","t_01"],"emptyAsNull":false,"tableComment":"null","table":"u_pk"},
"name":"Writer","category":"writer"}],"setting":{"executeMode":null,"errorLimit":{"record":"
"},"speed":{"concurrent":2,"throttle":false}},"order":{"hops":[{"from":"Reader","to":"Writer
"}]}}
&TaskName=new_di_task
&TaskParam={"FileFolderPath":"Workflow/XXX/Data Integration","ResourceGroup":"S_res_group_XX
X_XXXX"}
&TaskType=DI_OFFLINE
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1411515937635973****</RequestId>
<Data>
    <Status>success</Status>
    <Message>Invalid path: Workflow/xxxx/Data Integration</Message>
    <FileId>1000001</FileId>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0bc1411515937635973****",
    "Data": {
        "Status": "success",
        "Message": "Invalid path: Workflow/xxxx/Data Integration",
        "FileId": 1000001
    },
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error in Data Integration occurred.
400	Invalid.DI.Parameter	The parameter is invalid.	The error code returned because one or more parameters are invalid.
400	Invalid.DI.Parameter.File.Existed	The file name already exists.	The error message returned because the specified file name already exists.

For a list of error codes, visit the API Error Center.

5.2. DeleteDISyncTask

Deletes a synchronization node in Data Integration. You can call this operation to delete only a real-time synchronization node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDISyncTask	The operation that you want to perform.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must set this parameter to specify the DataWorks workspace in which the synchronization node resides.

Parameter	Type	Required	Example	Description
TaskType	String	Yes	DI_REALTIME	The type of the synchronization node in Data Integration. The parameter value is DI_REALTIME and cannot be changed. The value indicates a real-time synchronization node.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
FileId	Long	Yes	100	The ID of the real-time synchronization node. You can call the ListFiles operation to query the ID of the node.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request failed.
RequestId	String	0bc1411515937635973****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Data	Object		The result returned after you called the DeleteDISyncTask operation.
Status	String	success	Indicates whether the synchronization node in Data Integration is deleted. Valid values: • success: The synchronization node in Data Integration is deleted. • fail: The synchronization node in Data Integration failed to be deleted. You can troubleshoot the issue based on the failure reason.

Parameter	Type	Example	Description
Message	String	fileId:[100] is invalid.	The reason why the synchronization node in Data Integration failed to be deleted. If the synchronization node in Data Integration is deleted, the value null is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteDISyncTask
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteDISyncTaskResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>fail</Status>
        <Message>fileId:[100] is invalid.</Message>
    </Data>
</DeleteDISyncTaskResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "fail",
    "Message" : "fileId:[100] is invalid."
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.3. UpdateDISyncTask

Updates a sync node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDISyncTask	The operation that you want to perform.
FileId	Long	Yes	1000000	The ID of the sync node to be updated. You can call the ListFiles operation to query the ID of the node.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must set this parameter to specify the DataWorks workspace in which the node resides.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
TaskContent	String	Yes	{"type":"job","version":"2.0","steps":[{"stepType":"mysql","parameter":{"envType":1,"datasource":"mysql_pub","column":["id","name","create_time","age","score","t_01"],"connection":[{"datasource":"mysql_pub","table":["u_pk"]}],"where":"","splitPk":"id","encoding":"UTF-8"},"name":"Reader","category":"reader"},{"stepType":"odps","parameter":{"partition":"pt=${bizdate}","truncate":true,"datasource":"odps_first","envType":1,"column":["id","name","create_time","age","score","t_01"],"emptyAsNull":false,"tableComment":"null","table":"u_pk"},"name":"Writer","category":"writer"}],"setting":{"executeMode":null,"errorLimit":{"record":""},"speed":{"concurrent":2,"throttle":false}},"order":{"hops":[{"from":"Reader","to":"Writer"}]}}	The updated configuration of the sync node. This operation is equivalent to node update by using the code editor in the DataWorks console. For more information, see Create a sync node by using the code editor. You can call the UpdateDISyncTask operation to update only batch sync nodes. If you do not need to update the configuration of the sync node, leave this parameter empty.

Parameter	Type	Required	Example	Description
TaskParam	String	Yes	{"ResourceGroup":"S_res_group_XXX_XXXX"}	The setting that updates the resource group used by the node. The value must be in the JSON format. Only the ResourceGroup field is supported. This field specifies the identifier of the resource group for Data Integration that is used by the node. To query the identifier of the resource group, call the ListResourceGroup operation. If you do not need to update the resource group for the sync node, leave this parameter empty.
TaskType	String	Yes	DI_OFFLINE	The type of the sync node. You can call the UpdateDISyncTask operation to update only batch sync nodes. The value must be DI_OFFLINE.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information that indicates whether the sync node was updated.
Message	String	ResourceGroup: [S_res_group_XXX] is invalid.	The reason why the sync node failed to be updated. If the sync node was updated, this parameter is left empty.
Status	String	success	Indicates whether the sync node was updated. Valid values: • success: The sync node was updated. • fail: The sync node failed to be updated.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request was successful. Valid values: • true: The request was successful. • false: The request failed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateDISyncTask
&FileId=1000000
&ProjectId=10000
&RegionId=cn-zhangjiakou
&TaskContent={"type":"job","version":"2.0","steps":[{"stepType":"mysql","parameter":{"envTyp
e":1,"datasource":"mysql_pub","column":["id","name","create_time","age","score","t_01"],"con
nection":[{"datasource":"mysql_pub","table":["u_pk"]}],"where":"","splitPk":"id","encoding":
"UTF-8"},"name":"Reader","category":"reader"},{"stepType":"odps","parameter":{"partition":"p
t=${bizdate}","truncate":true,"datasource":"odps_first","envType":1,"column":["id","name","c
reate_time","age","score","t_01"],"emptyAsNull":false,"tableComment":"null","table":"u_pk"},
"name":"Writer","category":"writer"}],"setting":{"executeMode":null,"errorLimit":{"record":"
"},"speed":{"concurrent":2,"throttle":false}},"order":{"hops":[{"from":"Reader","to":"Writer
"}]}}
&TaskParam={"ResourceGroup":"S_res_group_XXX_XXXX"}
&TaskType=DI_OFFLINE
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1411515937635973****</RequestId>
<Data>
    <Status>success</Status>
    <Message>ResourceGroup:[S_res_group_XXX] is invalid.</Message>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0bc1411515937635973****",
    "Data": {
        "Status": "success",
        "Message": "ResourceGroup:[S_res_group_XXX] is invalid."
    },
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.

Http status code	Error code	Error message	Description
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error in Data Integration occurred.
400	Invalid.DI.Parameter	The parameter is invalid.	The error code returned because one or more parameters are invalid.

For a list of error codes, visit the API Error Center.

5.4. TestNetworkConnection

Tests the network connectivity between a data source and a resource group.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TestNetworkConnection	The operation that you want to perform.
DatasourceName	String	Yes	mysql_name	The name of the data source.
EnvType	String	Yes	1	The environment to which the data source belongs. Valid values: • 0: development environment • 1: production environment
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace to which the data source belongs. You can call the ListProjects operation to query the ID of the workspace.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region in which the data source resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ResourceGroup	String	Yes	S_res_group_2XXXX4_1619100XXXXX	The identifier of the resource group. You can call the ListResourceGroups operation to query the identifier of the resource group.

Response parameters

Parameter	Type	Example	Description
TaskList	Struct		The information about the connectivity test.
ConnectMessage	String	Connected	The reason why the data source and resource group failed the connectivity test. If data source and the resource group passed the connectivity test, this parameter is left empty.
ConnectStatus	Boolean	true	The result of the connectivity test. Valid values: • true: The data source and the resource group passed the connectivity test. • false: The data source and the resource group failed the connectivity test. You can troubleshoot issues based on the ConnectMessage parameter.
Success	Boolean	true	Indicates whether the request was successful. Valid values: • true: The request was successful. • false: The request failed.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can locate logs and troubleshoot issues based on the ID.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=TestNetworkConnection
&DatasourceName=mysql_name
&EnvType=1
&ProjectId=10000
&RegionId=cn-shanghai
&ResourceGroup=S_res_group_2XXXX4_1619100XXXXX
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG    </RequestId>
<TaskList>
    <ConnectStatus>true</ConnectStatus>
    <ConnectMessage>Connected</ConnectMessage>
</TaskList>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG",
    "TaskList": {
        "ConnectStatus": true,
        "ConnectMessage": "Connected"
    },
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error in Data Integration occurred.
400	Invalid.DI.Parameter	The parameter is invalid.	The error code returned because one or more parameters are invalid.

For a list of error codes, visit the API Error Center.

5.5. GetDataSourceMeta

Queries the metadata of a specified data source.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDataSourceMeta	The operation that you want to perform.
DatasourceName	String	Yes	mysql_name	The name of the data source.
PageNumber	Long	Yes	1	The number of the page to return.
PageSize	Long	Yes	10	The number of entries to return on each page.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the data source resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
EnvType	String	No	1	The environment to which the data source belongs. Valid values: • 0: development environment • 1: production environment

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information about the query operation.
Message	String	read datasource time out	The reason why the metadata of the data source failed to be retrieved. If the metadata of the data source was retrieved, this parameter is left empty.
Meta	String	{"dbTables": [{"dbName":"testdb","schema": [{"tableInfos": [{"dbName":"testdb","enable":true,"table":"table1","tableName":"table1"}]},{"tableInfos": [{"dbName":"testdb","enable":true,"table":"table2","tableName":"table2"}]}]}]}	The returned metadata of the data source. The returned metadata is in the JSON format. `{"dbTables": [{"dbName":"testdb","schema": [{"tableInfos": [{"dbName":"testdb","enable":true,"table":"table1","tableName":"table1"}]},{"tableInfos": [{"dbName":"testdb","enable":true,"table":"table2","tableName":"table2"}]}]}]}` Field description: • dbName: the name of the database in which the data source resides. • schema: the schema of the database. • enable: indicates whether the database is available. The value true indicates that the database is available. The value false indicates that the database is unavailable. • tableName: the name of the table in the database. • tableInfos: the information about the table in the database.
Status	String	success	Indicates whether the metadata of the data source was retrieved. Valid values: • success: the metadata of the data source was retrieved. • fail: the metadata of the data source failed to be retrieved. You can troubleshoot issues based on the Message parameter.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can locate logs and troubleshoot issues based on the ID.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request was successful. Valid values: • true: The request was successful. • false: The request failed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetDataSourceMeta
&DatasourceName=mysql_name
&PageNumber=1
&PageSize=10
&ProjectId=10000
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG    </RequestId>
<Data>
    <Status>success</Status>
    <Meta>{"dbTables":[{"dbName":"testdb","schema":[{"tableInfos":[{"dbName":"testdb","enabl
e":true,"table":"table1","tableName":"table1"}]},{"tableInfos":[{"dbName":"testdb","enable":
true,"table":"table2","tableName":"table2"}]}]}]}</Meta>
    <Message>read datasource time out</Message>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG",
    "Data": {
        "Status": "success",
        "Meta": "{\"dbTables\":[{\"dbName\":\"testdb\",\"schema\":[{\"tableInfos\":[{\"dbNam
e\":\"testdb\",\"enable\":true,\"table\":\"table1\",\"tableName\":\"table1\"}]},{\"tableInfo
s\":[{\"dbName\":\"testdb\",\"enable\":true,\"table\":\"table2\",\"tableName\":\"table2\"}]}
]}]}",
        "Message": "read datasource time out"
    },
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error in Data Integration occurred.
400	Invalid.DI.Parameter	The parameter is invalid.	The error code returned because one or more parameters are invalid.

For a list of error codes, visit the API Error Center.

5.6. ListDIProjectConfig

Queries the default global configuration of sync solutions in a specified DataWorks workspace.

DataWorks allows you to set the default global configuration for only the processing rules of DDL messages in sync solutions. After you configure the **processing rules of DDL messages** in sync solutions, the configuration is set as the default global configuration and applies to all real-time sync nodes. You can also modify the **processing rules of DDL messages** based on your business requirements. For more information, see Sync solutions.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDIProjectConfig	The operation that you want to perform.
DestinationType	String	Yes	elasticsearch	The type of the destination data source of the sync solution. This parameter cannot be left empty. Valid values: analyticdb_for_mysql, odps, elasticsearch, holo, mysql, and polardb. You can call the ListDIProjectConfig operation to query the supported types of destination data sources.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	1000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the sync solution resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
SourceType	String	Yes	mysql	The type of the source data source of the sync solution. Valid values: oracle, mysql, polardb, datahub, drds, and analyticdb_for_mysql. You can call the ListDIProjectConfig operation to query the supported types of source data sources. If you do not set this parameter, DataWorks applies the default global configuration to all the source data sources of the preceding types.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information about the query operation.

Parameter	Type	Example	Description
Config	String	{"RENAMECOLUMN":"WARNING","DROPTABLE":"WARNING","CREATETABLE":"WARNING","MODIFYCOLUMN":"WARNING","TRUNCATETABLE":"WARNING","DROPCOLUMN":"WARNING","ADDCOLUMN":"WARNING","RENAMETABLE":"WARNING"}	The default global configuration of sync solutions. The value indicates the processing rules of different types of DDL messages. Example: {"RENAMECOLUMN":"WARNING","DROPTABLE":"WARNING","CREATETABLE":"WARNING","MODIFYCOLUMN":"WARNING","TRUNCATETABLE":"WARNING","DROPCOLUMN":"WARNING","ADDCOLUMN":"WARNING","RENAMETABLE":"WARNING"} Field description: • RENAMECOLUMN: renames the column. • DROPTABLE: deletes the table. • CREATETABLE: creates a table. • MODIFYCOLUMN: changes the column data type. • TRUNCATETABLE: clears the table. • DROPCOLUMN: deletes the column. • ADDCOLUMN: creates a column. • RENAMETABLE: renames the table. DataWorks processes a DDL message of a specific type based on the following policies after it receives the message: • WARNING: ignores the message and records an alert in real-time sync logs. The alert contains information about the situation that the message is ignored because of an execution error. • IGNORE: discards the message and does not send it to the destination data source. • CRITICAL: terminates the real-time sync node and sets the node status to Failed. • NORMAL: sends the message to the destination data source to process the message. Each destination data source may process DDL messages based on its own business logic. If DataWorks adopts the NORMAL policy, DataWorks only forwards DDL messages.
RequestId	String	0000-ABCD-EFG	The ID of the request. You can locate logs and troubleshoot issues based on the ID.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request was successful. Valid values: • true: The request was successful. • false: The request failed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListDIProjectConfig
&DestinationType=elasticsearch
&ProjectId=1000
&RegionId=cn-shanghai
&SourceType=mysql
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG </RequestId>
<Data>
    <Config>{"RENAMECOLUMN":"WARNING","DROPTABLE":"WARNING","CREATETABLE":"WARNING","MODIFYC
OLUMN":"WARNING","TRUNCATETABLE":"WARNING","DROPCOLUMN":"WARNING","ADDCOLUMN":"WARNING","REN
AMETABLE":"WARNING"}</Config>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG",
    "Data": {
        "Config": "{\"RENAMECOLUMN\":\"WARNING\",\"DROPTABLE\":\"WARNING\",\"CREATETABLE\":\
"WARNING\",\"MODIFYCOLUMN\":\"WARNING\",\"TRUNCATETABLE\":\"WARNING\",\"DROPCOLUMN\":\"WARNI
NG\",\"ADDCOLUMN\":\"WARNING\",\"RENAMETABLE\":\"WARNING\"}"
    },
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.

Http status code	Error code	Error message	Description
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error in Data Integration occurred.
400	Invalid.DI.Parameter	The parameter is invalid.	The error code returned because one or more parameters are invalid.

For a list of error codes, visit the API Error Center.

5.7. UpdateDIProjectConfig

Modifies the default global configuration of sync solutions in a specified DataWorks workspace.

DataWorks allows you to set the default global configuration for only the processing rules of DDL messages in sync solutions. After you configure the **processing rules of DDL messages** in sync solutions, the configuration is set as the default global configuration and applies to all real-time sync nodes. You can also modify the **processing rules of DDL messages** based on your business requirements. For more information, see Sync solutions.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDIProjectConfig	The operation that you want to perform.
DestinationType	String	Yes	odps	The type of the destination data source of the sync solution. This parameter cannot be left empty. Valid values: analyticdb_for_mysql, odps, elasticsearch, holo, mysql, and polardb. You can call this operation to modify the default global configuration of sync solutions that use these types of destination data sources.

Parameter	Type	Required	Example	Description
ProjectConfig	String	Yes	null	The updated default global configuration of sync solutions. The value indicates the processing rules of different types of DDL messages. The value must be in the JSON format. Example: null Field description: • RENAMECOLUMN: renames the column. • DROPTABLE: deletes the table. • CREATETABLE: creates a table. • MODIFYCOLUMN: changes the column data type. • TRUNCATETABLE: clears the table. • DROPCOLUMN: deletes the column. • ADDCOLUMN: creates a column. • RENAMETABLE: renames the table. DataWorks processes a DDL message of a specific type based on the following policies after it receives the message: • WARNING: ignores the message and records an alert in real-time sync logs. The alert contains information about the situation that the message is ignored because of an execution error. • IGNORE: discards the message and does not send it to the destination data source. • CRITICAL: terminates the real-time sync node and sets the node status to Failed. • NORMAL: sends the message to the destination data source to process the message. Each destination data source may process DDL messages based on its own business logic. If DataWorks adopts the NORMAL policy, DataWorks only forwards DDL messages.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the sync solution resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
SourceType	String	No	mysql	The type of the source data source of the sync solution. Valid values: oracle, mysql, polardb, datahub, drds, and analyticdb_for_mysql. You can call this operation to modify the default global configuration of sync solutions that use these types of source data sources. If you do not set this parameter, DataWorks applies the updated default global configuration to all the source data sources of the preceding types.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information about the modification.
Status	String	success	Indicates whether the default global configuration of sync solutions was modified. Valid values: • success: The default global configuration of sync solutions was modified. • fail: The default global configuration of sync solutions failed to be modified.

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request was successful. Valid values: • true: The request was successful. • false: The request failed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateDIProjectConfig
&DestinationType=odps
&ProjectConfig={"RENAMECOLUMN":"WARNING","DROPTABLE":"WARNING","CREATETABLE":"WARNING","MODI
FYCOLUMN":"WARNING","TRUNCATETABLE":"WARNING","DROPCOLUMN":"WARNING","ADDCOLUMN":"WARNING","
RENAMETABLE":"WARNING"}
&ProjectId=10000
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG </RequestId>
<Data>
    <Status>success</Status>
</Data>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG",
    "Data": {
        "Status": "success"
    },
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error in Data Integration occurred.
400	Invalid.DI.Parameter	The parameter is invalid.	The error code returned because one or more parameters are invalid.

For a list of error codes, visit the API Error Center.

5.8. Use API operations to create, configure, and manage a data synchronization node

This topic describes how to use API operations to create, configure, and manage a data synchronization node in Data Integration.

Prerequisites

- A Maven project is created. For more information, see Create a Maven project.
- A workflow is created. For more information, see Create a workflow.
- Data sources are created and added to DataWorks for data synchronization. For more information, see Add a data source.

Limits

- In DataWorks, you can call the CreateDISyncTask API operation to create only batch data synchronization nodes.
- You can use only the code editor to configure data synchronization nodes that are created by calling the CreateDISyncTask API operation. For more information, see Create a synchronization node by using the code editor.
- In DataWorks, you cannot use an API operation to create a workflow. You can call the CreateDISyncTask API operation to create data synchronization nodes only in existing workflows.

Preparations

- Configure Maven dependencies.
  i. Open the *pom.xml* file of your Maven project and add `aliyun-java-sdk-core` to the file.

```
 <dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.5.20</version>
</dependency>
```

ii. Open the *pom.xml* file of your Maven project and add `aliyun-java-sdk-dataworks-public` to the file.

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-dataworks-public</artifactId>
  <version>3.4.2</version>
</dependency>
```

- Authenticate an account.

  Before you can use an API operation to create a data synchronization node, you must run the following code to authenticate the Alibaba Cloud account that you want to use to log on to DataWorks. If the account passes the authentication, you can perform subsequent operations. If the account fails the authentication, an error is returned, and you must resolve the issue based on the error.

```
 DefaultProfile profile = DefaultProfile.getProfile(
                           "regionId",            // The ID of the region where your DataW
orks workspace resides, such as cn-hangzhou.
                           "<yourAccessKeyId>",   // The AccessKey ID of the Alibaba Cloud
account that you want to use to access the DataWorks workspace.
                           "<yourAccessSecret>"); // The AccessKey secret of the Alibaba C
loud account that you want to use to access the DataWorks workspace.
 IAcsClient client = new DefaultAcsClient(profile);
```

  To obtain the AccessKey ID and AccessKey secret of your Alibaba Cloud account, log on to the DataWorks console, move the pointer over your profile picture, and then click **AccessKey Management**.

Overview

After you complete the preceding preparations, you can call API operations to perform the following steps:

1. Create a data synchronization node in Data Integration.
2. Configure scheduling dependencies for the node.
3. Commit the node.
4. Query the status of the node.
5. Deploy the node to the production environment.
6. Query the status of the node.

Procedure

1. Create a data synchronization node in Data Integration.

   Call the *CreateDISyncTask* operation to create a data synchronization node in Data Integration. The following code provides an example of the settings of some parameters. For more information, see

CreateDISyncTask.

```
public void createFile() throws ClientException{
        CreateDISyncTaskRequest request = new CreateDISyncTaskRequest();
        request.setProjectId(181565L);
        request.setTaskType("DI_OFFLINE");
        request.setTaskContent("{\"type\":\"job\",\"version\":\"2.0\",\"steps\":[{\"step
Type\":\"mysql\",\"parameter\":{\"envType\":1,\"datasource\":\"dh_mysql\",\"column\":[\"
id\",\"name\"],\"tableComment\":\"Comment for the table same\",\"connection\":[{\"dataso
urce\":\"dh_mysql\",\"table\":[\"same\"]}],\"where\":\"\",\"splitPk\":\"id\",\"encoding\
":\"UTF-8\"},\"name\":\"Reader\",\"category\":\"reader\"},{\"stepType\":\"odps\",\"param
eter\":{\"partition\":\"pt=${bizdate}\",\"truncate\":true,\"datasource\":\"odps_first\",
\"envType\":1,\"column\":[\"id\",\"name\"],\"emptyAsNull\":false,\"tableComment\":\"Comm
ent for the table same\",\"table\":\"same\"},\"name\":\"Writer\",\"category\":\"writer\"
}],\"setting\":{\"errorLimit\":{\"record\":\"\"},\"speed\":{\"throttle\":false,\"concurr
ent\":2}},\"order\":{\"hops\":[{\"from\":\"Reader\",\"to\":\"Writer\"}]}}");
        request.setTaskParam("{\"FileFolderPath\":\"Business Flow/new_biz/Data Integrati
on\",\"ResourceGroup\":\"S_res_group_280749521950784_1602767279794\"}");
        request.setTaskName("new_di_task_0607_1416");
        String akId = "XXX";
        String akSecret = "XXXX";
        String regionId = "cn-hangzhou";
        IClientProfile profile = DefaultProfile.getProfile(regionId, akId, akSecret);
        DefaultProfile.addEndpoint("cn-hangzhou","dataworks-public","dataworks.cn-hangzh
ou.aliyuncs.com");
        IAcsClient client;
        client = new DefaultAcsClient(profile);
        CreateDISyncTaskResponse response1 = client.getAcsResponse(request);
        Gson gson1 = new Gson();
        System.out.println(gson1.toJson(response1));
}
```

2. Configure scheduling dependencies for the node.

   Call the *UpdateFile* operation to configure scheduling dependencies for the node.

```
public static void updateFile(Long fileId) throws Exception {
        UpdateFileRequest request = new UpdateFileRequest();
        request.setProjectId(2043L);
        request.setFileId(fileId);
        request.setAutoRerunTimes(3);
        request.setRerunMode("FAILURE_ALLOWED");
        request.setCronExpress("00 30 05 * * ?");
        request.setCycleType("DAY");
        request.setResourceGroupIdentifier("S_res_group_XXX");
        // Use an exclusive resource group for scheduling.
        request.setInputList("dataworks_di_autotest_root");
        UpdateFileResponse response1 = client.getAcsResponse(request);
    }
```

   The preceding code provides an example of the settings of some parameters. For more information, see UpdateFile.

3. Commit the node.

   Call the *SubmitFile* operation to commit the node to the development environment of the

scheduling system.

```
 public void submitFile() throws ClientException{
        SubmitFileRequest request = new SubmitFileRequest();
        request.setProjectId(78837L);
        request.setProjectIdentifier("zxy_8221431");
      // The ID is the value of the FileId parameter that is returned when you create th
e node.
        request.setFileId(501576542L);
        request.setComment("Comment");
        SubmitFileResponse acsResponse = client.getAcsResponse(request);
}
```

The preceding code provides an example of the settings of some parameters. For more information, see Submit File.

4. Query the status of the node.

   After you commit the node, the ID of the deployment task of the node is returned. You can call the GetDeployment operation to query the details about the deployment task based on the ID. If the value of the Status parameter in the response of the GetDeployment operation is *1*, the deployment task is successful, and the node is committed. You can deploy a node only after the node is committed. If your node fails to be committed, you must handle the failure based on the error that is returned.

```
public void getDeployment() throws ClientException{
        GetDeploymentRequest request = new GetDeploymentRequest();
        request.setProjectId(78837L);
        request.setProjectIdentifier("zxy_8221431");
      // The ID is the deployment task ID that is returned after you commit the node.
        request.setDeploymentId(2776067L);
        GetDeploymentResponse acsResponse = client.getAcsResponse(request);
        log.info(acsResponse.getData().toString());
    }
```

   The preceding code provides an example of the settings of some parameters. For more information, see GetDeployment.

5. Deploy the node to the production environment.

   Call the DeployFile operation to deploy the node to the production environment.

   Note If your workspace is in standard mode, you must perform this step.

```
 public void deploy() throws ClientException{
        DeployFileRequest request = new DeployFileRequest();
        request.setProjectIdentifier("zxy_8221431");
        request.setFileId(501576542L);
        request.setComment("Comment");
        // You must specify the NodeId or FileId parameter. The value of NodeId is the v
alue of the Node ID parameter in the General section of the Properties tab on the config
uration tab of the node.
        request.setNodeId(700004537241L);
        DeployFileResponse acsResponse = client.getAcsResponse(request);
    }
```

The preceding code provides an example of some parameter settings. For more information, see DeployFile.

6. Query the status of the node.

   After you deploy the node, the ID of the deployment task of the node is returned. You can call the GetDeployment operation to query the details about the deployment task based on the ID. If the value of the Status parameter in the response of the GetDeployment operation is *1*, the deployment task is successful, and the node is deployed.

```
public void getDeployment() throws ClientException{
        GetDeploymentRequest request = new GetDeploymentRequest();
        request.setProjectId(78837L);
        request.setProjectIdentifier("zxy_8221431");
      // The ID is the deployment task ID that is returned after you deploy the node.
        request.setDeploymentId(2776067L);
        GetDeploymentResponse acsResponse = client.getAcsResponse(request);
        log.info(acsResponse.getData().toString());
    }
```

   The preceding code provides an example of the settings of some parameters. For more information, see GetDeployment.

Manage a data synchronization node

After you create and configure a data synchronization node in Data Integration, you can perform the following operations on the node:

- Modify the configuration of the node: You can call the UpdateDISyncTask operation to modify the configuration of the node. You can also use the TaskParam parameter to change the exclusive resource group that is used by the node. For more information, see UpdateDISyncTask.

  > **Note** After you modify the configuration of a data synchronization node, you must commit and deploy the node again. For more information, see Overview.

- Backfill data for the node: You can call the RunCycleDagNodes operation to backfill data for the node. This operation allows you to backfill data for multiple nodes in a workflow at the same time. For more information, see RunCycleDagNodes.

Example

The following example shows the complete code that is used to create and configure a batch data synchronization node in Data Integration:

```
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.dataworks_public.model.v20200518.*;
import com.aliyuncs.profile.DefaultProfile;
import com.aliyuncs.profile.IClientProfile;
import java.util.List;
public class createofflineTask {
    static Long createTask(String fileName) throws  Exception {
        Long projectId = 2043L;
        String taskType = "DI_OFFLINE";
        String taskContent = "{\n" +
                "    \"type\": \"job\",\n" +
```

```
"    \"version\": \"2.0\",\n" +
"    \"steps\": [\n" +
"        {\n" +
"            \"stepType\": \"mysql\",\n" +
"            \"parameter\": {\n" +
"                \"envType\": 0,\n" +
"                \"datasource\": \"mysql_autotest_dev\",\n" +
"                \"column\": [\n" +
"                    \"id\",\n" +
"                    \"name\"\n" +
"                ],\n" +
"                \"connection\": [\n" +
"                    {\n" +
"                        \"datasource\": \"mysql_autotest_dev\",\n" +
"                        \"table\": [\n" +
"                            \"user\"\n" +
"                        ]\n" +
"                    }\n" +
"                ],\n" +
"                \"where\": \"\",\n" +
"                \"splitPk\": \"\",\n" +
"                \"encoding\": \"UTF-8\"\n" +
"            },\n" +
"            \"name\": \"Reader\",\n" +
"            \"category\": \"reader\"\n" +
"        },\n" +
"        {\n" +
"            \"stepType\": \"odps\",\n" +
"            \"parameter\": {\n" +
"                \"partition\": \"pt=${bizdate}\",\n" +
"                \"truncate\": true,\n" +
"                \"datasource\": \"odps_first\",\n" +
"                \"envType\": 0,\n" +
"                \"column\": [\n" +
"                    \"id\",\n" +
"                    \"name\"\n" +
"                ],\n" +
"                \"emptyAsNull\": false,\n" +
"                \"tableComment\": \"null\",\n" +
"                \"table\": \"user\"\n" +
"            },\n" +
"            \"name\": \"Writer\",\n" +
"            \"category\": \"writer\"\n" +
"        }\n" +
"    ],\n" +
"    \"setting\": {\n" +
"        \"executeMode\": null,\n" +
"        \"errorLimit\": {\n" +
"            \"record\": \"\"\n" +
"        },\n" +
"        \"speed\": {\n" +
"            \"concurrent\": 2,\n" +
"            \"throttle\": false\n" +
"        }\n" +
"    },\n" +
```

```
                "    \"order\": {\n" +
                "        \"hops\": [\n" +
                "            {\n" +
                "                \"from\": \"Reader\",\n" +
                "                \"to\": \"Writer\"\n" +
                "            }\n" +
                "        ]\n" +
                "    }\n" +
                "}";
        CreateDISyncTaskRequest request = new CreateDISyncTaskRequest();
        request.setProjectId(projectId);
        request.setTaskType(taskType);
        request.setTaskContent(taskContent);
        request.setTaskName(fileName);
        request.setTaskParam("{\"FileFolderPath\":\"Business Flow/test/Data Integration\",\"
ResourceGroup\":\"S_res_group_XXX\"}");
        // Use an exclusive resource group for Data Integration.
        CreateDISyncTaskResponse response1 = client.getAcsResponse(request);
        return response1.getData().getFileId();
    }
    public static void updateFile(Long fileId) throws Exception {
        UpdateFileRequest request = new UpdateFileRequest();
        request.setProjectId(2043L);
        request.setFileId(fileId);
        request.setAutoRerunTimes(3);
        request.setRerunMode("FAILURE_ALLOWED");
        request.setCronExpress("00 30 05 * * ?");
        request.setCycleType("DAY");
        request.setResourceGroupIdentifier("S_res_group_XXX");
        // Use an exclusive resource group for scheduling.
        request.setInputList("dataworks_di_autotest_root");
        UpdateFileResponse response1 = client.getAcsResponse(request);
    }
    public static  Long submitFile(Long fileId) throws  Exception {
        SubmitFileRequest request = new SubmitFileRequest();
        request.setProjectId(2043L);
        request.setFileId(fileId);
        SubmitFileResponse acsResponse = client.getAcsResponse(request);
        Long deploymentId = acsResponse.getData();
        return deploymentId;
    }
    public static  void getDeployment(Long deploymentId) throws Exception {
        GetDeploymentRequest request = new GetDeploymentRequest();
        request.setProjectId(2043L);
        request.setDeploymentId(deploymentId);
        GetDeploymentResponse acsResponse = client.getAcsResponse(request);
        System.out.println(acsResponse.getData().getDeployment().getStatus());
    }
    public static  Long deploy(Long fileId) throws Exception {
        DeployFileRequest request = new DeployFileRequest();
        request.setProjectId(2043L);
        request.setFileId(fileId);
        DeployFileResponse acsResponse = client.getAcsResponse(request);
        Long deploymentId = acsResponse.getData();
        return deploymentId;
```

```
        return deploymentId;
    }
    public static Long listNode(String nodeName) throws Exception {
        ListNodesRequest request = new ListNodesRequest();
        request.setProjectId(2043L);
        request.setNodeName(nodeName);
        request.setProjectEnv("PROD");
        ListNodesResponse acsResponse = client.getAcsResponse(request);
        List<ListNodesResponse.Data.NodesItem> nodesItemList = acsResponse.getData().getNode
s();
        return nodesItemList.get(0).getNodeId();
    }
    public static void RunCycleDagNodes(Long nodeId) throws Exception {
        RunCycleDagNodesRequest request = new RunCycleDagNodesRequest();
        request.setIncludeNodeIds(nodeId.toString());
        request.setName("rerun_job");
        request.setParallelism(false);
        request.setProjectEnv("PROD");
        request.setRootNodeId(nodeId);
        request.setStartBizDate("2021-09-29 00:00:00");
        request.setEndBizDate("2021-09-29 00:00:00");
        request.setProjectEnv("PROD");
        RunCycleDagNodesResponse acsResponse = client.getAcsResponse(request);
    }
    static IAcsClient client;
    public static void main(String[] args) throws Exception {
        String akId = "XX";
        String akSecret = "XX"; // Specify the AccessKey secret of the Alibaba Cloud account
that you use to access your DataWorks workspace.
        String regionId = "cn-chengdu";
        IClientProfile profile = DefaultProfile.getProfile(regionId, akId, akSecret);
        DefaultProfile.addEndpoint(regionId, "dataworks-public", "dataworks." + regionId + "
.aliyuncs.com");
        client = new DefaultAcsClient(profile);
        String taskName = "offline_job_0930_1648";
        Long fileId = createTask(taskName); // Create a data synchronization node in Data In
tegration.
        updateFile(fileId);   // Configure scheduling properties for the node.
        Long deployId = submitFile(fileId); // Commit the node.
        getDeployment(deployId);  // Query the status of the node.
        Thread.sleep(10000); // Wait until the node is committed.
        getDeployment(deployId);  // Query the status of the node.
        deployId = deploy(fileId);  // Deploy the node to the production environment.
        getDeployment(deployId);    // Query the status of the node.
        Thread.sleep(10000);        // Wait until the node is deployed.
        getDeployment(deployId);    // Query the status of the node.
        Long nodeId = listNode(taskName);  // Query the ID of the node.
        RunCycleDagNodes(nodeId);   // Backfill data for the node.
    }
}
```

5.9. GetDISyncTask

Queries the details of a real-time synchronization node or a data synchronization solution.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDISyncTask	The operation that you want to perform. Set the value to **GetDISyncTask**.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to query the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.
TaskType	String	Yes	DI_REALTIME	The type of the object that you want to query. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: data synchronization solution
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.

Parameter	Type	Required	Example	Description
FileId	Long	Yes	100	• If you set the TaskType parameter to DI_REALTIME, set the FileId parameter to the ID of the real-time synchronization node that you want to query. • If you set the TaskType parameter to DI_SOLUTION, set the FileId parameter to the ID of the data synchronization solution that you want to query. You can call the ListFiles operation to query the ID of the real-time synchronization node or data synchronization solution.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can query logs and troubleshoot issues based on the ID.
Data	Object		The details of the real-time synchronization node or data synchronization solution.
Code	String	null	• If the TaskType parameter is set to DI_REALTIME, the details of the real-time synchronization node are returned. • If the TaskType parameter is set to DI_SOLUTION, the value null is returned.
Status	String	success	Indicates whether the details of the real-time synchronization node or data synchronization solution are obtained. Valid values: success: The details are obtained. fail: The details fail to be obtained.

Parameter	Type	Example	Description
Message	String	fileId:[100] is invalid.	The cause of the failure to obtain the details of the real-time synchronization node or data synchronization solution. If the details of the real-time synchronization node or data synchronization solution are obtained, the value null is returned.
SolutionDetail	Object		• If the TaskType parameter is set to DI_REALTIME, the value null is returned. • If the TaskType parameter is set to DI_SOLUTION, the details of the data synchronization solution task are returned.
Status	String	0	The status of the data synchronization solution. Valid values: • 0: successful • 1: not running • 2: running • 3: failed • 4: committed • 5: pending manual confirmation • 6: manually confirmed • 7: others • 8: waiting • 9: deleted
Type	String	holo	The type of the data synchronization solution.
StartTime	String	2021-12-07 14:40:51	The start time of the data synchronization solution.
CreatorName	String	dataworks_di	The creator of the data synchronization solution.
ProjectId	Long	10000	The ID of the project to which the data synchronization solution belongs.
SourceType	String	mysql	The type of the source of the data synchronization solution.

Parameter	Type	Example	Description
ProcessContent	String	null	The configuration details of the data synchronization solution.
Name	String	holo_20211206161025	The name of the data synchronization solution.
ProcessExtra	String	null	The additional parameters of the data synchronization solution.
SubmitTime	String	2021-12-07 14:40:51	The time when the data synchronization solution was committed.
Id	Long	100	The ID of the data synchronization solution.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetDISyncTask
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetDISyncTaskResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****    </RequestId>
    <Data>
        <Code>{"extend":{"mode":"wizard","resourceGroup":"S_res_group_287114642182658_156032
4290517"},"nodeDef":{},"order":{"hops":[{"from":"datahub_8htXSsfiS2vtZCVG","to":"datahub_CRH
BAyGfhSaLmv2f"}]},"setting":{"errorLimit":{},"jvmOption":""},"steps":[{"stepType":"datahub",
"category":"writer","displayName":"DataHub1","parameter":{"batchSize":1000,"datasource":"dat
ahub_cloud_dev_test","topic":"dwd_tfc_opt_speed_rid_amap_rt"},"name":"datahub_CRHBAyGfhSaLmv
2f","gui":{"x":262,"y":325}},{"stepType":"datahub","displayName":"DataHub2","parameter":{"da
tasource":"datahub_uric_test","topic":"dwd_tfc_opt_speed_rid_amap_rt_330000","batchSize":100
0},"name":"datahub_8htXSsfiS2vtZCVG","gui":{"x":268,"y":160.5},"category":"writer"}]}</Code>
        <Status>success</Status>
        <Message>fileId:[100] is invalid.</Message>
        <SolutionDetail>
            <Status>0</Status>
            <Type>holo</Type>
            <StartTime>2021-12-07 14:40:51</StartTime>
            <CreatorName>dataworks_di</CreatorName>
            <ProjectId>10000</ProjectId>
            <SourceType>mysql</SourceType>
            <ProcessContent>{"holoDatasource":"holo","offlineSyncConfig":{"nodeNameRule":"on
eclick_holo_di_${db_table_name_src}_to_${db_table_name_dest}","resourceGroup":"group_2191937
93999490"},"processRuleId":1007,"readerConcurrent":10,"realtimeSyncConfig":{"content":{"orde
r":{"hops":[{"from":"reader","to":"writer"}]},"setting":{"speed":{"readerConcurrent":10}},"s
teps":[{"stepType":"mysql","name":"reader","category":"reader","parameter":{"connection":[{"
datasource":"mm","datasourceType":"mysql","table":[]}]}},{"stepType":"holo","name":"writer",
"category":"writer","parameter":{"datasource":"holo","writeMode":"replay","datasourceSchema"
:"public","tableMappingRule":{"datasource":[{"tableRule":[],"srcDatasourceName":"mm"}]}}}]},
"extend":{"mode":"migration_holo","resourceGroup":"group_219193793999490"}},"setting":{"auto
CreateWorkflow":true,"userDefinedFileNameExpression":"oneclick"},"srcType":"mysql","tableMap
pingRuleFromRealtimeSyncConfig":{"datasource":[{"srcDatasourceName":"mm","tableRule":[]}]}}<
/ProcessContent>
            <Name>holo_20211206161025</Name>
            <ProcessExtra>{"processType":"new","tableNum":300}</ProcessExtra>
            <SubmitTime>2021-12-07 14:40:51</SubmitTime>
            <Id>100</Id>
        </SolutionDetail>
    </Data>
</GetDISyncTaskResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Code" : "{\"extend\":{\"mode\":\"wizard\",\"resourceGroup\":\"S_res_group_2871146421826
58_1560324290517\"},\"nodeDef\":{},\"order\":{\"hops\":[{\"from\":\"datahub_8htXSsfiS2vtZCVG
\",\"to\":\"datahub_CRHBAyGfhSaLmv2f\"}]},\"setting\":{\"errorLimit\":{},\"jvmOption\":\"\"}
,\"steps\":[{\"stepType\":\"datahub\",\"category\":\"writer\",\"displayName\":\"DataHub1\",\
"parameter\":{\"batchSize\":1000,\"datasource\":\"datahub_cloud_dev_test\",\"topic\":\"dwd_t
fc_opt_speed_rid_amap_rt\"},\"name\":\"datahub_CRHBAyGfhSaLmv2f\",\"gui\":{\"x\":262,\"y\":3
25}},{\"stepType\":\"datahub\",\"displayName\":\"DataHub2\",\"parameter\":{\"datasource\":\"
datahub_uric_test\",\"topic\":\"dwd_tfc_opt_speed_rid_amap_rt_330000\",\"batchSize\":1000},\
"name\":\"datahub_8htXSsfiS2vtZCVG\",\"gui\":{\"x\":268,\"y\":160.5},\"category\":\"writer\"
}]}",
    "Status" : "success",
    "Message" : "fileId:[100] is invalid.",
    "SolutionDetail" : {
      "Status" : 0,
      "Type" : "holo",
      "StartTime" : "2021-12-07 14:40:51",
      "CreatorName" : "dataworks_di",
      "ProjectId" : 10000,
      "SourceType" : "mysql",
      "ProcessContent" : "{\"holoDatasource\":\"holo\",\"offlineSyncConfig\":{\"nodeNameRule
\":\"oneclick_holo_di_${db_table_name_src}_to_${db_table_name_dest}\",\"resourceGroup\":\"gr
oup_219193793999490\"},\"processRuleId\":1007,\"readerConcurrent\":10,\"realtimeSyncConfig\"
:{\"content\":{\"order\":{\"hops\":[{\"from\":\"reader\",\"to\":\"writer\"}]},\"setting\":{\
"speed\":{\"readerConcurrent\":10}},\"steps\":[{\"stepType\":\"mysql\",\"name\":\"reader\",\
"category\":\"reader\",\"parameter\":{\"connection\":[{\"datasource\":\"mm\",\"datasourceTyp
e\":\"mysql\",\"table\":[]}]}},{\"stepType\":\"holo\",\"name\":\"writer\",\"category\":\"wri
ter\",\"parameter\":{\"datasource\":\"holo\",\"writeMode\":\"replay\",\"datasourceSchema\":\
"public\",\"tableMappingRule\":{\"datasource\":[{\"tableRule\":[],\"srcDatasourceName\":\"mm
\"}]}}}]},\"extend\":{\"mode\":\"migration_holo\",\"resourceGroup\":\"group_219193793999490\
"}},\"setting\":{\"autoCreateWorkflow\":true,\"userDefinedFileNameExpression\":\"oneclick\"}
,\"srcType\":\"mysql\",\"tableMappingRuleFromRealtimeSyncConfig\":{\"datasource\":[{\"srcDat
asourceName\":\"mm\",\"tableRule\":[]}]}}",
      "Name" : "holo_20211206161025",
      "ProcessExtra" : "{\"processType\":\"new\",\"tableNum\":300}",
      "SubmitTime" : "2021-12-07 14:40:51",
      "Id" : 100
    }
  }
}
```


Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.10. DeployDISyncTask

Deploys a real-time synchronization node or a data synchronization solution.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeployDISyncTask	The operation that you want to perform. Set the value to **DeployDISyncTask**.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to query the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.

Parameter	Type	Required	Example	Description
TaskType	String	Yes	DI_REALTIME	The type of the object that you want to deploy. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: data synchronization solution
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
FileId	Long	Yes	100	• If you set the TaskType parameter to DI_REALTIME, set the FileId parameter to the ID of the real-time synchronization node that you want to deploy. • If you set the TaskType parameter to DI_SOLUTION, set the FileId parameter to the ID of the data synchronization solution that you want to deploy. You can call the ListFiles operation to query the ID of the real-time synchronization node or data synchronization solution.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can query logs and troubleshoot issues based on the ID.
Data	Object		The result of deploying the real-time synchronization node or data synchronization solution.

Parameter	Type	Example	Description
Status	String	success	Indicates whether the real-time synchronization node or data synchronization solution is deployed. Valid values: • success: The real-time synchronization node or data synchronization solution is deployed. • fail: The real-time synchronization node or data synchronization solution fails to be deployed.
Message	String	submit and deploy fail.	The cause of the failure to deploy the real-time synchronization node or data synchronization solution. If the real-time synchronization node or data synchronization solution is deployed, the value null is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeployDISyncTask
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeployDISyncTaskResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>success</Status>
        <Message>submit and deploy fail.</Message>
    </Data>
</DeployDISyncTaskResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "success",
    "Message" : "submit and deploy fail."
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.11. GetDISyncInstanceInfo

Queries the status of a real-time synchronization node or a data synchronization solution.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDISyncInstanceInfo	The operation that you want to perform. Set the value to **GetDISyncInstanceInfo**.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to query the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.
TaskType	String	Yes	DI_REALTIME	The type of the object that you want to query. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: data synchronization solution
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
FileId	Long	Yes	100	• If you set the TaskType parameter to DI_REALTIME, set the FileId parameter to the ID of the real-time synchronization node that you want to query. • If you set the TaskType parameter to DI_SOLUTION, set the FileId parameter to the ID of the data synchronization solution that you want to query. You can call the ListFiles operation to query the ID of the real-time synchronization node or data synchronization solution.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc14115159376359 73****	The ID of the request. You can query logs and troubleshoot issues based on the ID.
Data	Object		The status of the real-time synchronization node or data synchronization solution.
Status	String	RUN	• If the TaskType parameter is set to DI_REALTIME, the status parameter indicates the status of the real-time synchronization node. Valid values: PAUSE, NORUN, RUN, KILLING, and WAIT. • If the TaskType parameter is set to DI_SOLITION, the status parameter indicates the status of the data synchronization solution. Valid values: success and fail.
Message	String	fileId[100] is invalid	The cause of the failure to obtain the status of the real-time synchronization node or data synchronization solution. If the status of the real-time synchronization node or data synchronization solution is obtained, the value null is returned.
Name	String	streamx_name	• If the TaskType parameter is set to DI_REALTIME, the name parameter indicates the name of the real-time synchronization node. • If the TaskType parameter is set to DI_SOLITION, the value null is returned.
SolutionInfo	Object		• If the TaskType parameter is set to DI_REALTIME, the value null is returned. • If the TaskType parameter is set to DI_SOLITION, the SolutionInfo parameter indicates the details of the data synchronization solution.
Status	String	run	The status of the data synchronization solution.

Parameter	Type	Example	Description
Id	Long	100	The ID of the data synchronization solution.
CreatorName	String	dataworks_3h1	The creator of the data synchronization solution.
StepDetail	Array of StepDetail		The step details of the synchronization solution.
Status	String	success	The status of the step in the data synchronization solution.
StepId	Long	1	The ID of the step in the data synchronization solution.
StepName	String	Create the base table	The name of the step in the data synchronization solution.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetDISyncInstanceInfo
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetDISyncInstanceInfoResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>RUN</Status>
        <Message>fileId[100] is invalid</Message>
        <Name>streamx_name</Name>
        <SolutionInfo>
            <Status>run</Status>
            <Id>100</Id>
            <CreatorName>dataworks_3h1</CreatorName>
            <StepDetail>
                <Status>success</Status>
                <StepId>1</StepId>
                <StepName>Create the base table</StepName>
            </StepDetail>
        </SolutionInfo>
    </Data>
</GetDISyncInstanceInfoResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "RUN",
    "Message" : "fileId[100] is invalid",
    "Name" : "streamx_name",
    "SolutionInfo" : {
      "Status" : "run",
      "Id" : 100,
      "CreatorName" : "dataworks_3h1",
      "StepDetail" : {
        "Status" : "success",
        "StepId" : 1,
        "StepName" : "Create the base table"
      }
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.12. TerminateDISyncInstance

Terminates a real-time synchronization node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TerminateDISyncInstance	The operation that you want to perform. Set the value to **TerminateDISyncInstance**.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.
TaskType	String	Yes	DI_REALTIME	The type of the node. A value of DI_REALTIME indicates that the node is a real-time synchronization node.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
FileId	Long	Yes	100	The ID of the real-time synchronization node.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can query logs and troubleshoot issues based on the ID.
Data	Object		The result of the operation.
Status	String	success	Indicates whether the real-time synchronization node is terminated. Valid values: • success • fail
Message	String	fileId:[100] is invalid.	The reason why the real-time synchronization node fails to be terminated. If the real-time synchronization node is terminated, this parameter is left empty.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=TerminateDISyncInstance
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<TerminateDISyncInstanceResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>success</Status>
        <Message>fileId:[100] is invalid.</Message>
    </Data>
</TerminateDISyncInstanceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "success",
    "Message" : "fileId:[100] is invalid."
  }
}
```

Error codes

Http status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.13. GenerateDISyncTaskConfigForCreating

Generates an ID for an asynchronous thread that is used to create a real-time synchronization node or a synchronization solution in Data Integration. The ID is used when you call the QueryDISyncTaskConfigProcessResult operation to obtain parameters that are asynchronously generated and used to create a real-time synchronization node or a synchronization solution in Data Integration.

DataWorks allows you to use only the CreateDISyncTask operation to create a batch synchronization node in Data Integration. To create a real-time synchronization node or a synchronization solution, you must first call the GenerateDISyncTaskConfigForCreating operation to generate the ID of an asynchronous thread and call the QueryDISyncTaskConfigProcessResult operation to obtain the asynchronously generated parameters based on the ID. Then, you can call the CreateDISyncTask operation and use the parameters as request parameters to create a real-time synchronization node or a synchronization solution in Data Integration.

DataWorks allows you to create real-time synchronization nodes and synchronization solutions in Data Integration only in asynchronous mode.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GenerateDISyncTaskConfigForCreating	The operation that you want to perform.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.

Parameter	Type	Required	Example	Description
TaskType	String	Yes	DI_REALTIME	The type of the object that you want to create in Data Integration in asynchronous mode. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: synchronization solution DataWorks allows you to create real-time synchronization nodes and synchronization solutions in Data Integration only in asynchronous mode.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint used to call the operation.
				The script for the real-time synchronization node or synchronization solution in Data Integration. The following types of real-time synchronization nodes and synchronization solutions are supported: • Real-time synchronization node or synchronization solution that is used to synchronize data from MySQL to MaxCompute • Real-time synchronization node or synchronization solution that is used to synchronize data from MySQL data to Kafka • Real-time synchronization node or synchronization solution that is used to synchronize data from MySQL to Hologres The SelectedTables parameter is used to specify tables that you want to synchronize from multiple databases. The Tables parameter is used to specify tables that you want to synchronize from a single database. • If the script contains the SelectedTables parameter, the

Parameter	Type	Required	Example	Description

			{ "type": "realtime", "version": "1.0", "setting": {	system synchronizes the tables that you specify in the SelectedTables parameter.
				• If the script contains the Tables parameter, the system synchronizes the tables that you specify in the Tables parameter.
				The following sample code provides a script for data synchronization from MySQL to MaxCompute:
				{
				"type": "realtime",
				"version": "1.0",
				"setting": {
				"resourceGroup": "S_res_group_280749521950784_1623033752022",
				"taskType": "oneclick_to_odps"
				},
				"steps": { "stepType": "mysql", "parameter": { "connection": [{ "datasourceType": "mysql", "datasource": "mysql_pub1", "selectedTables": [{ "dbName": "mysql_db", "schema": [{ "tableInfos": [{ "table": "molin_di_test_in_pk_v4" }
				}
				]
				}
				]
				}
				]
				},
				"name": "Reader",
				"category": "reader"
				},
				{
				"stepType": "odps",
				"parameter": {
				"datasource": "odps_first"
				},
				"name": "Writer",
				"category": "writer"

Parameter	Type	Required	Example	Description

TaskParam	String	Yes	"resourceGroup": "S_res_group_280749521950784_1623033752022", "scheduleResgroupId": 30003913, "name": "openapi_realtime_solution_0813_1739", "taskType": "oneclick_to_odps" }, "steps": [{ "stepType": "mysql", "parameter": { "connection": [{ "datasourceType": "mysql", "datasource": "mysql_pub", "table": ["xyx"] }] }, "name": "Reader", "category": "reader" }, { "stepType": "odps", "parameter": { "datasource": "odps_first" }, "name": "Writer", "category": "writer" }] }	The following sample code provides a script for data synchronization from MySQL to Kafka:
				{
				"type": "realtime",
				"version": "1.0",
				"setting": {
				"resourceGroup": "S_res_group_280749521950784_1623033752022",
				"taskType": "oneclick_to_kafka"
				},
				"steps": { "stepType": "mysql", "parameter": { "connection": [{ "datasourceType": "mysql", "datasource": "pkset_test", "selectedTables": [{ "dbName": "mysql_db", "schema": [{ "tableInfos": [{ "table": "molin_di_test_in_pk_v4" }
				}
				]
				}
				]
				}
				]
				},
				"name": "Reader",
				"category": "reader"
				},
				{
				"stepType": "kafka",
				"parameter": {
				"datasource": "azn_kafka"
				},
				"name": "Writer",
				"category": "writer"
				}
				]

Parameter	Type	Required	Example	Description

				The following sample code provides a script for data synchronization from MySQL to Hologres:
				{
				"type": "realtime",
				"version": "1.0",
				"setting": {
				"resourceGroup": "S_res_group_280749521950784_1623033752022",
				"taskType": "oneclick_to_holo"
				},
				"steps": { "stepType": "mysql", "parameter": { "connection": [{ "datasourceType": "mysql", "datasource": "mysql_pub", "selectedTables": [{ "dbName": "mysql_db", "schema": [{ "tableInfos": [{ "table": "molin_di_test_in2_pk_v3" }
				}
				]
				}
				]
				}
				]
				},
				"name": "Reader",
				"category": "reader"
				},
				{
				"stepType": "holo",
				"parameter": {
				"datasource": "holo"
				},
				"name": "Writer",
				"category": "writer"
				}
				]
				}

Parameter	Type	Required	Example	Description
ClientToken	String	No	ABFUOEUOTRTRJKE	The client token that is used to ensure the idempotence of the request. This parameter is used to prevent repeated operations that are caused by multiple calls.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Data	Object		The information returned for the ID of the asynchronous thread.
Status	String	true	Indicates whether the ID of the asynchronous thread is generated. Valid values: • success: indicates that the ID of the asynchronous thread is generated. • fail: indicates that the ID of the asynchronous thread fails to be generated. You can view the reason for the failure and troubleshoot the issue based on the reason.
ProcessId	Long	10	The ID of the asynchronous thread. You can call the QueryDISyncTaskConfigProcessResult operation to obtain the asynchronously generated parameters based on the ID. The parameters are used to create a real-time synchronization node or a synchronization solution in Data Integration.

Parameter	Type	Example	Description
Message	String	XXX is invalid.	The reason why the ID of the asynchronous thread fails to be generated. If the ID is successfully generated, the value null is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GenerateDISyncTaskConfigForCreating
&ProjectId=10000
&TaskType=DI_REALTIME
&TaskParam={    "type": "realtime",     "version": "1.0",        "setting": {       "resourc
eGroup":       "S_res_group_280749521950784_1623033752022",        "scheduleResgroupId": 300
03913,       "name": "openapi_realtime_solution_0813_1739",       "taskType": "oneclick_to_o
dps"     },     "steps": [         {             "stepType": "mysql",             "parameter
": {                 "connection": [                     {                        "datasourc
eType": "mysql",                         "datasource": "mysql_pub",
"table": [                            "xyx"                        ]                     }
]             },             "name": "Reader",             "category": "reader"         },
{             "stepType": "odps",             "parameter": {                 "datasource": "
odps_first"             },             "name": "Writer",             "category": "writer"
}     ] }
&ClientToken=ABFUOEUOTRTRJKE
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GenerateDISyncTaskConfigForCreatingResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>true</Status>
        <ProcessId>10</ProcessId>
        <Message>XXX is invalid.</Message>
    </Data>
</GenerateDISyncTaskConfigForCreatingResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : true,
    "ProcessId" : 10,
    "Message" : "XXX is invalid."
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.DI.Parameter	The parameter is invalid.	The error message returned because one or more parameters are invalid.
400	Invalid.DI.Parameter.File.Existed	The file name already exists.	The error message returned because the specified file name already exists.
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error has occurred in Data Integration.

For a list of error codes, visit the API Error Center.

5.14. GenerateDISyncTaskConfigForUpdating

Generates an ID for an asynchronous thread that is used to update a real-time synchronization node or a synchronization solution in Data Integration. The ID is used when you call the QueryDISyncTaskConfigProcessResult operation to obtain parameters that are asynchronously generated and used to update a real-time synchronization node or a synchronization solution in Data Integration.

DataWorks allows you to use only the UpdateDISyncTask operation to update a batch synchronization node in Data Integration. To update a real-time synchronization node or a synchronization solution, you must first call the GenerateDISyncTaskConfigForUpdating operation to generate the ID of an asynchronous thread and call the QueryDISyncTaskConfigProcessResult operation to obtain the asynchronously generated parameters based on the ID. Then, you can call the UpdateDISyncTask operation and use the parameters as request parameters to update a real-time synchronization node or a synchronization solution in Data Integration. DataWorks allows you to update real-time synchronization nodes and synchronization solutions in Data Integration only in asynchronous mode.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GenerateDISyncTaskConfigForUpdating	The operation that you want to perform.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.
TaskType	String	Yes	DI_REALTIME	The type of the object that you want to update in Data Integration in asynchronous mode. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: synchronization solution DataWorks allows you to update real-time synchronization nodes and synchronization solutions in Data Integration only in asynchronous mode.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
TaskParam	String	Yes	{ "steps": [{ "parameter": { "connection": [{ "table": ["xyx"] }] }, "name": "Reader", "category": "reader" }] }	The script for updating the real-time synchronization node or synchronization solution in Data Integration. DataWorks allows you to add or remove tables for a real-time synchronization node or a synchronization solution in Data Integration only in asynchronous mode. The following types of real-time synchronization nodes and synchronization solutions are supported: • Real-time synchronization node or synchronization solution that is used to synchronize data from MySQL to MaxCompute • Real-time synchronization node or synchronization solution that is used to synchronize data from MySQL data to Kafka • Real-time synchronization node or synchronization solution that is used to synchronize data from MySQL to Hologres The SelectedTables parameter is used to specify tables that you want to synchronize from multiple databases. The Tables parameter is used to specify tables that you want to synchronize from a single database. • If the script contains the SelectedTables parameter, the system synchronizes the tables that you specify in the SelectedTables parameter. • If the script contains the Tables parameter, the system synchronizes the tables that you specify in the Tables parameter.

Parameter	Type	Required	Example	Description
ClientToken	String	No	ABFUOEUOTRTRJKE	The client token that is used to ensure the idempotence of the request. This parameter is used to prevent repeated operations that are caused by multiple calls.
TaskId	Long	Yes	100	The ID of the real-time synchronization node or synchronization solution. • If you set the TaskType parameter to DI_REALTIME, set the TaskId parameter to the value of the FileId parameter for the real-time synchronization node. • If you set the TaskType parameter to DI_SOLUTION, set the TaskId parameter to the value of the FileId parameter for the synchronization solution.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Data	Object		The information returned for the ID of the asynchronous thread.

Parameter	Type	Example	Description
Status	String	true	Indicates whether the ID of the asynchronous thread is generated. Valid values: • success: indicates that the ID of the asynchronous thread is generated. • fail: indicates that the ID of the asynchronous thread fails to be generated. You can view the reason for the failure and troubleshoot the issue based on the reason.
ProcessId	Long	10	The ID of the asynchronous thread. You can call the QueryDISyncTaskConfigProcessResult operation to obtain the asynchronously generated parameters based on the ID. The parameters are used to update a real-time synchronization node or a synchronization solution in Data Integration.
Message	String	XXX is invalid.	The reason why the ID of the asynchronous thread fails to be generated. If the ID is successfully generated, the value null is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GenerateDISyncTaskConfigForUpdating
&ProjectId=10000
&TaskType=DI_REALTIME
&TaskParam={"steps":[{"parameter":{"connection":[{"table":["xyx"]}]},"name":"Reader","catego
ry":"reader"}]}
&ClientToken=ABFUOEUOTRTRJKE
&TaskId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GenerateDISyncTaskConfigForUpdatingResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>true</Status>
        <ProcessId>10</ProcessId>
        <Message>XXX is invalid.</Message>
    </Data>
</GenerateDISyncTaskConfigForUpdatingResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "true",
    "ProcessId" : 10,
    "Message" : "XXX is invalid."
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid.DI.Parameter	The parameter is invalid.	The error message returned because one or more parameters are invalid.
400	Invalid.DI.Parameter.File.Existed	The file name already exists.	The error message returned because the specified file name already exists.
403	Forbidden.DI.NoPrivilege	No access.	The error message returned because you do not have the required permissions.
500	InternalError.DI.Parameter	A DI internal error occurred.	The error message returned because an internal error has occurred in Data Integration.

For a list of error codes, visit the API Error Center.

5.15. StartDISyncInstance

Starts a real-time synchronization node or a data synchronization solution.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StartDISyncInstance	The operation that you want to perform.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. You must set this parameter to specify the DataWorks workspace in which the real-time synchronization node or the data synchronization solution resides.
TaskType	String	Yes	DI_REALTIME	The type of the Data Integration object that you want to start. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: data synchronization solution
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Parameter	Type	Required	Example	Description
FileId	Long	Yes	100	• If you set the TaskType parameter to DI_REALTIME, set the FileId parameter to the ID of the real-time synchronization node that you want to start. • If you set the TaskType parameter to DI_SOLUTION, set the FileId parameter to the ID of the data synchronization solution that you want to start.
StartParam	String	No	null	• If you set the TaskType parameter to DI_REALTIME, the StartParam parameter specifies the startup parameters for the real-time synchronization node. The startup parameters include failover-related parameters, the parameter that specifies the number of dirty data records allowed, and the parameters in the data definition language (DDL) statements. • If you set the TaskType parameter to DI_SOLUTION, the StartParam parameter does not take effect.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request succeeded. • false: The request failed.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Data	Object		The result returned for the start.

Parameter	Type	Example	Description
Status	String	success	Indicates whether the real-time synchronization node or the data synchronization solution is started. Valid values: • success: The real-time synchronization node or the data synchronization solution is started. • fail: The real-time synchronization node or the data synchronization solution fails to be started. You can troubleshoot the issue based on the provided cause.
Message	String	fileId:[100] is invalid.	The reason why the real-time synchronization node or the data synchronization solution fails to be started. If the real-time synchronization node or the data synchronization solution is started, the value null is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=StartDISyncInstance
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&StartParam={"failoverLimit":{"count":10,"interval":30},"errorLimit":{"record":0},"ddlMarkMa
p":{"RENAMECOLUMN":"WARNING","DROPTABLE":"WARNING","CREATETABLE":"IGNORE","MODIFYCOLUMN":"WA
RNING","TRUNCATETABLE":"NORMAL","DROPCOLUMN":"IGNORE","ADDCOLUMN":"NORMAL","RENAMETABLE":"CR
ITICAL"}}
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<StartDISyncInstanceResponse>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>success</Status>
        <Message>fileId:[100] is invalid.</Message>
    </Data>
    <Success>true</Success>
</StartDISyncInstanceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "success",
    "Message" : "fileId:[100] is invalid."
  },
  "Success" : true
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.16. StopDISyncInstance

Stops a real-time synchronization node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StopDISyncInstance	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.
TaskType	String	Yes	DI_REALTIME	The type of the synchronization node that you want to stop. Set the value to DI_REALTIME. DI_REALTIME indicates a real-time synchronization node.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
FileId	Long	Yes	100	The ID of the synchronization node. You can call the ListFiles operation to obtain the ID.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Data	Object		The information returned for the synchronization node.

Parameter	Type	Example	Description
Status	String	success	Indicates whether the synchronization node is stopped. Valid values: • success: The synchronization node is stopped. • fail: The synchronization node fails to be stopped.
Message	String	fileId:[100] is invalid.	The reason why the synchronization node fails to be stopped. If the synchronization node is stopped, the value null is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=StopDISyncInstance
&ProjectId=10000
&TaskType=DI_REALTIME
&FileId=100
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<StopDISyncInstanceResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>success</Status>
        <Message>fileId:[100] is invalid.</Message>
    </Data>
</StopDISyncInstanceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "success",
    "Message" : "fileId:[100] is invalid."
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.

For a list of error codes, visit the API Error Center.

5.17. QueryDISyncTaskConfigProcessResult

Obtains asynchronously generated parameters based on the ID of an asynchronous thread. The parameters are used to create or update a real-time synchronization node or a synchronization solution in Data Integration.

DataWorks allows you to call only the CreateDISyncTask or UpdateDISyncTask operation to create or update a batch synchronization node in Data Integration. To create or update a real-time synchronization node or a synchronization solution, you must first call the GenerateDISyncTaskConfigForCreating or GenerateDISyncTaskConfigForUpdating operation to generate the ID of an asynchronous thread and call the QueryDISyncTaskConfigProcessResult operation to obtain the asynchronously generated parameters based on the ID. Then, you can call the CreateDISyncTask or UpdateDISyncTask operation and use the parameters as request parameters to create or update a real-time synchronization node or a synchronization solution.

DataWorks allows you to create or update real-time synchronization nodes and synchronization solutions in Data Integration only in asynchronous mode.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryDISyncTaskConfigProcessResult	The operation that you want to perform.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID. This parameter specifies the DataWorks workspace to which the operation is applied.
TaskType	String	Yes	DI_REALTIME	The type of the object that you want to create or update in Data Integration in asynchronous mode. Valid values: • DI_REALTIME: real-time synchronization node • DI_SOLUTION: synchronization solution DataWorks allows you to create or update real-time synchronization nodes and synchronization solutions in Data Integration only in asynchronous mode.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
AsyncProcessId	Long	Yes	10	The ID of the asynchronous thread. You can call the GenerateDISyncTaskConfigForCreating or GenerateDISyncTaskConfigForUpdating operation to generate the ID. • The GenerateDISyncTaskConfigForCreating operation is used to generate the ID of the asynchronous thread that is used to create a real-time synchronization node or a synchronization solution in Data Integration. • The GenerateDISyncTaskConfigForUpdating operation is used to generate the ID of the asynchronous thread that is used to update a real-time synchronization node or a synchronization solution in Data Integration.

Response parameters

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
RequestId	String	0bc1411515937635973****	The ID of the request. You can locate logs and troubleshoot issues based on the ID.
Data	Object		The information returned for the parameters that are asynchronously generated and used to create or update a real-time synchronization node or a synchronization solution in Data Integration.

Parameter	Type	Example	Description
Status	String	success	Indicates whether the parameters are obtained. Valid values: • success: indicates that the parameters are obtained. • fail: indicates that the parameters fail to be obtained. You can view the reason for the failure and troubleshoot the issue based on the reason.
Message	String	fileId:[100] is invalid.	The reason why the parameters fail to be obtained. If the parameters are obtained, the value null is returned.

Parameter	Type	Example	Description
TaskContent	String	{"extend":{"mode":"migration_holo","resourceGroup":"280749","name":"h"},"type":"job","steps":[{"stepType":"mysql","parameter":{"connection":[{"datasourceType":"mysql","datasource":"mm","selectedTables":[{"schema":[{"tableInfos":[{"enable":true,"table":"m_v1","tableName":"m_v1"}]}]},"dbName":"m"}]}]},"name":"reader","category":"reader"},{"stepType":"holo","parameter":{"datasource":"h","tableMappingRule":{"datasource":[{"tableRule":[{"srcTable":"m_v1","mergeIntoCycleType":"DEFAULT","hourDeltaEnable":false,"dstTable":"m.m_v1","dayDeltaEnable":false,"primaryKeyInfo":{"column":["id"],"type":"pk"},"dstCreateTableInfo":{"indexType":"m_v1","dataColumn":[{"columnSize":0,"name":"id","index":0,"comment":"","newDigit":0,"type":"int8","digit":0,"primaryKey":true}],"schemaName":"m","tableName":"m_v1"},"srcDbName":"m"],"srcDatasourceName":"mm"}],"totalTableMapping":1},"writeMode":"replay"},"name":"writer","category":"writer"}],"version":"2.0","order":{"hops":	The parameters that are obtained. The parameters are used as the request parameters of the CreateDISyncTask or UpdateDISyncTask operation to create or update a real-time synchronization node or a synchronization solution in Data Integration.

Parameter	Type	Example	Description
		[{"from":"reader","to":"writer"}]}}	

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=QueryDISyncTaskConfigProcessResult
&ProjectId=10000
&TaskType=DI_REALTIME
&AsyncProcessId=10
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryDISyncTaskConfigProcessResultResponse>
    <Success>true</Success>
    <RequestId>0bc1411515937635973****</RequestId>
    <Data>
        <Status>success</Status>
        <Message>fileId:[100] is invalid.</Message>
        <TaskContent>{"extend":{"mode":"migration_holo","resourceGroup":"280749","name":"h"}
,"type":"job","steps":[{"stepType":"mysql","parameter":{"connection":[{"datasourceType":"mys
ql","datasource":"mm","selectedTables":[{"schema":[{"tableInfos":[{"enable":true,"table":"m_
v1","tableName":"m_v1"}]}],"dbName":"m"}]}]},"name":"reader","category":"reader"},{"stepType
":"holo","parameter":{"datasource":"h","tableMappingRule":{"datasource":[{"tableRule":[{"src
Table":"m_v1","mergeIntoCycleType":"DEFAULT","hourDeltaEnable":false,"dstTable":"m.m_v1","da
yDeltaEnable":false,"primaryKeyInfo":{"column":["id"],"type":"pk"},"dstCreateTableInfo":{"in
dexType":"m_v1","dataColumn":[{"columnSize":0,"name":"id","index":0,"comment":"","newDigit":
0,"type":"int8","digit":0,"primaryKey":true}],"schemaName":"m","tableName":"m_v1"},"srcDbNam
e":"m"],"srcDatasourceName":"mm"}],"totalTableMapping":1},"writeMode":"replay"},"name":"writ
er","category":"writer"}],"version":"2.0","order":{"hops":[{"from":"reader","to":"writer"}]}
}</TaskContent>
    </Data>
</QueryDISyncTaskConfigProcessResultResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Success" : true,
  "RequestId" : "0bc1411515937635973****",
  "Data" : {
    "Status" : "success",
    "Message" : "fileId:[100] is invalid.",
    "TaskContent" : "{\"extend\":{\"mode\":\"migration_holo\",\"resourceGroup\":\"280749\",\
"name\":\"h\"},\"type\":\"job\",\"steps\":[{\"stepType\":\"mysql\",\"parameter\":{\"connecti
on\":[{\"datasourceType\":\"mysql\",\"datasource\":\"mm\",\"selectedTables\":[{\"schema\":[{
\"tableInfos\":[{\"enable\":true,\"table\":\"m_v1\",\"tableName\":\"m_v1\"}]}],\"dbName\":\"
m\"}]}]},\"name\":\"reader\",\"category\":\"reader\"},{\"stepType\":\"holo\",\"parameter\":{
\"datasource\":\"h\",\"tableMappingRule\":{\"datasource\":[{\"tableRule\":[{\"srcTable\":\"m
_v1\",\"mergeIntoCycleType\":\"DEFAULT\",\"hourDeltaEnable\":false,\"dstTable\":\"m.m_v1\",\
"dayDeltaEnable\":false,\"primaryKeyInfo\":{\"column\":[\"id\"],\"type\":\"pk\"},\"dstCreate
TableInfo\":{\"indexType\":\"m_v1\",\"dataColumn\":[{\"columnSize\":0,\"name\":\"id\",\"inde
x\":0,\"comment\":\"\",\"newDigit\":0,\"type\":\"int8\",\"digit\":0,\"primaryKey\":true}],\"
schemaName\":\"m\",\"tableName\":\"m_v1\"},\"srcDbName\":\"m\"],\"srcDatasourceName\":\"mm\"
}],\"totalTableMapping\":1},\"writeMode\":\"replay\"},\"name\":\"writer\",\"category\":\"wri
ter\"}],\"version\":\"2.0\",\"order\":{\"hops\":[{\"from\":\"reader\",\"to\":\"writer\"}]}}"
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Param.Invalid	The parameter is invalid.	The error message returned because one or more parameters are invalid.
403	Forbidden.Access	Access is forbidden.	The error message returned because you are not authorized to perform this operation.
500	InternalError.System	An internal error occurred.	The error message returned because an internal error has occurred.

For a list of error codes, visit the API Error Center.

6.Data Modeling

6.1. QueryPublicModelEngine

Queries information about the data modeling engine by using fast modeling language (FML) statements.

- You must use FML statements to query information about the data modeling engine when you call this operation.
- The information about the data modeling engine can be queried by page, except for data layers, business processes, and data domains. You can add an offset to the end of an FML statement.

  The num LIMIT num statement specifies the offset when the information about the data modeling engine is queried, and the number of pages to return each time. The offset value must be a multiple of the number of pages.
- A maximum of 1,000 entries can be returned each time you call the operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryPublicModelEngine	The operation that you want to perform. Set the value to **QueryPublicModelEngine**.
Text	String	Yes	show dim tables	The FML statement that is used to query information about the data modeling engine. For more information, see Use FML statements to configure and manage data tables. Only SHOW statements are supported.
ProjectId	String	Yes	1234	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to view the workspace ID.

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-beijing	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
RequestId	String	4CFB2DED-7D9B-4C42-B4AA-CFF4991DFFF4	The unique ID of the request. You can troubleshoot errors based on the ID.

Parameter	Type	Example	Description
ReturnValue	Array of Object	[{ "gmtModified": The time when the table was last modified,"code": "The name of the table","creatorId": "The ID of the user who created the table","creatorName": "The name of the user who created the table","modifierId": "The ID of the user who last modified the table","gmtCreate": The time when the table was created,"type": The type of the table,"ownerId": "The ID of the owner","uuid": "The UUID of the table","businessUnitUuid": "The ID of the business unit","detailType": "The subtype of the table","ownerName": "The name of the owner","name": "The display name of the table","modifierName": "The name of the user who last modified the table","businessProcessUuid": "The ID of the business process" }]	The information about the data modeling engine that is returned.

Response description

FML statement used to query data layers

show layers;

Response parameters

Parameter	Type	Example	Description
code	String	dws	The code of the data layer.
englishName	String	dws	The name of the data layer.
name	String	DWS layer	The display name of the data layer.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
description	String	Description of the DWS layer	The description of the data layer.
uuid	String	obj-123456	The UUID of the data layer.
gmtCreate	Date	1633885261000	The time when the data layer was created.
gmtModified	Date	1633885261000	The time when the data layer was last modified.
creatorId	String	0123456	The ID of the user who created the data layer.
creatorName	String	A, B, C, and D	The name of the user who created the data layer.
modifierId	String	0123456	The ID of the user who last modified the data layer.
modifierName	String	A, B, C, and D	The name of the user who last modified the data layer.

FML statement used to query data domains

show domains;

Response parameters

Parameter	Type	Example	Description
code	String	member	The code of the data domain.
englishName	String	member	The name of the data domain.
name	String	Member	The display name of the data domain.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
businessUnitCode	String	bu-123456	The code of the business unit.
description	String	Description of the Member data domain	The description of the data domain.
uuid	String	obj-123456	The UUID of the data domain.
gmtCreate	Date	1633885261000	The time when the data domain was created.
gmtModified	Date	1633885261000	The time when the data domain was last modified.
creatorId	String	0123456	The ID of the user who created the data domain.

Parameter	Type	Example	Description
creatorName	String	A, B, C, and D	The name of the user who created the data domain.
modifierId	String	0123456	The ID of the user who last modified the data domain.
modifierName	String	A, B, C, and D	The name of the user who last modified the data domain.

FML statements used to query business processes

--Query business processes without setting query conditions.

show business_processes;

--Query a business process based on the code of the business process.

show business_processes where code='bp-code';

--Query business processes based on the code of a data domain.

show business_processes where data_domain='dm-code';

Response parameters

Parameter	Type	Example	Description
code	String	bp-123456	The code of the business process.
englishName	String	pay	The name of the business process.
name	String	Payment	The display name of the business process.
dataDomainCode	String	trade	The code of the data domain to which the business process belongs.

Parameter	Type	Example	Description
dataDomainName	String	Transaction	The display name of the data domain to which the business process belongs.
dataDomainUuid	String	dm-123456	The UUID of the data domain to which the business process belongs.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
description	String	Payment	The description of the business process.
source	Integer	2	The source of the business process. Valid values: 1 and 2. A value of 1 indicates that the business process is created by the system. A value of 2 indicates that the business process is created by users.
parentCode	String	bp-1234567	The code of the parent business process.
parentName	String	Purchase	The name of the parent business process.
uuid	String	obj-123456	The UUID of the business process.
gmtCreate	Date	1633885261000	The time when the business process was created.

Parameter	Type	Example	Description
gmtModified	Date	1633885261000	The time when the business process was last modified.
creatorId	String	creatorId	The ID of the user who created the business process.
creatorName	String	A, B, C, and D	The name of the user who created the business process.
modifierId	String	0123456	The ID of the user who last modified the business process.
modifierName	String	A, B, C, and D	The name of the user who last modified the business process.

FML statements used to query business categories

show business_categories;

show business_categories where code='code';

show business_categories where keyword='keyword',

show business_categories where uuid='uuid'

Response parameters

Parameter	Type	Example	Description
categoryDetail	DirectoryDetailDTO	Business category details	The details of the business category.
name	String	E-commerce	The name of the directory.
detailType	String	DICT	The type of the directory.

Parameter	Type	Example	Description
parentUuid	String	dy-123456	The UUID of the parent directory.
description	String	Description	The description of the directory.
code	String	ind	The code of the business category.
dataDomains	List	Associated data domains	The data domains that are associated with the business category.
code	String	member	The code of the data domain.
englishName	String	member	The name of the data domain.
name	String	Member	The display name of the data domain.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
businessUnitCode	String	bu-123456	The code of the business unit.
description	String	Description of the Member data domain	The description of the data domain.
categoryPath	String	tm.ind	The path of the business category.

Parameter	Type	Example	Description
creatorId	String	creatorId	The ID of the user who created the business category.
creatorName	String	A, B, C, and D	The name of the user who created the business category.
modifierId	String	0123456	The ID of the user who last modified the business category.
modifierName	String	A, B, C, and D	The name of the user who last modified the business category.

FML statement used to query data standard sets

show dict groups;

Response parameters

Parameter	Type	Example	Description
name	String	E-commerce	The name of the directory.
detailType	String	DICT	The type of the directory.
parentUuid	String	dy-123456	The UUID of the parent directory.
description	String	Description	The description of the directory.
code	String	ind	The code of the business category.

Parameter	Type	Example	Description
uuid	List	obj-123456	The UUID of the data standard set.
gmtCreate	Date	1633885261000	The time when the data standard set was created.
gmtModified	Date	1633885261000	The time when the data standard set was last modified.
creatorId	String	0123456	The ID of the user who created the data standard set.
creatorName	String	A, B, C, and D	The name of the user who created the data standard set.
modifierId	String	0123456	The ID of the user who last modified the data standard set.
modifierName	String	A, B, C, and D	The name of the user who last modified the data standard set.

FML statement used to query data standards

show dicts;

Response parameters

Parameter	Type	Example	Description
code	String	Column code	The code of the data standard.
englishName	String	Column name	The name of the data standard.

Parameter	Type	Example	Description
name	String	Column	The display name of the data standard.
no	String	Data standard No.	The ID of the data standard.
dataType	String	Data type	The data type of the fields that use the data standard.
length	Integer	Length	The maximum number of digits in the values of the fields that use the data standard.
numericalPrecision	Integer	Precision	The number of decimal places that are retained in the values of the fields that use the data standard.
notNull	Boolean	true	Indicates whether the values of the fields that use the data standard can be non-null.
defaultValue	String	Default value	The default value of the fields that use the data standard.
parentNo	String	Parent data standard No.	The ID of the parent data standard.
parentName	String	Parent data standard	The name of the parent data standard.
codeTableNo	String	Referenced lookup table code	The code of the lookup table that defines the value range of the fields that use the data standard.

Parameter	Type	Example	Description
codeTableName	String	Referenced lookup table name	The name of the lookup table that defines the value range of the fields that use the data standard.
codeTableUuid	String	Referenced lookup table UUID	The UUID of the lookup table that defines the value range of the fields that use the data standard.
directoryUuid	String	Directory UUID	The UUID of the directory in which the data standard is stored.
directoryName	String	Directory name	The name of the directory in which the data standard is stored.
description	String	Description	The description of the data standard.
uuid	String	obj-123456	The UUID of the data standard.
gmtCreate	Date	1633885261000	The time when the data standard was created.
gmtModified	Date	1633885261000	The time when the data standard was last modified.
creatorId	String	0123456	The ID of the user who created the data standard.
creatorName	String	A, B, C, and D	The name of the user who created the data standard.

Parameter	Type	Example	Description
modifierId	String	0123456	The ID of the user who last modified the data standard.
modifierName	String	A, B, C, and D	The name of the user who last modified the data standard.

FML statement used to query lookup tables

show code tables;

Response parameters

Parameter	Type	Example	Description
code	String	Code	The code of the lookup table.
name	String	Lookup table	The display name of the lookup table.
extendName	String	Lookup table name	The name of the lookup table.
description	String	Description	The description of the lookup table.
uuid	String	obj-123456	The UUID of the lookup table.
gmtCreate	Date	1633885261000	The time when the lookup table was created.
gmtModified	Date	1633885261000	The time when the lookup table was last modified.

Parameter	Type	Example	Description
creatorId	String	0123456	The ID of the user who created the lookup table.
creatorName	String	A, B, C, and D	The name of the user who created the lookup table.
modifierId	String	0123456	The ID of the user who last modified the lookup table.
modifierName	String	A, B, C, and D	The name of the user who last modified the lookup table.

FML statement used to query measurement unit groups

show measure_unit groups;

Response parameters

Parameter	Type	Example	Description
name	String	E-commerce	The name of the directory.
detailType	String	DICT	The type of the directory.
parentUuid	String	dy-123456	The UUID of the parent directory.
description	String	Description	The description of the directory.
code	String	ind	The code of the business category.
uuid	String	obj-123456	The UUID of the measurement unit group.

Parameter	Type	Example	Description
gmtCreate	Date	1633885261000	The time when the measurement unit group was created.
gmtModified	Date	1633885261000	The time when the measurement unit group was last modified.
creatorId	String	0123456	The ID of the user who created the measurement unit group.
creatorName	String	A, B, C, and D	The name of the user who created the measurement unit group.
modifierId	String	0123456	The ID of the user who last modified the measurement unit group.
modifierName	String	A, B, C, and D	The name of the user who last modified the measurement unit group.

FML statement used to query measurement units

show measure_units;

Response parameters

Parameter	Type	Example	Description
code	String	Code	The code of the measurement unit.
englishName	String	Column name	The name of the measurement unit.

Parameter	Type	Example	Description
name	String	Column	The display name of the measurement unit.
directoryUuid	String	Group UUID	The UUID of the measurement unit group.
directoryName	String	Group name	The name of the measurement unit group.
description	String	Description	The description of the measurement unit.
uuid	String	obj-123456	The UUID of the measurement unit.
gmtCreate	Date	1633885261000	The time when the measurement unit was created.
gmtModified	Date	1633885261000	The time when the measurement unit was last modified.
creatorId	String	0123456	The ID of the user who created the measurement unit.
creatorName	String	A, B, C, and D	The name of the user who created the measurement unit.
modifierId	String	0123456	The ID of the user who last modified the measurement unit.
modifierName	String	A, B, C, and D	The name of the user who last modified the measurement unit.

FML statement used to query the data of a lookup table

show codes from code_table;

Response parameters

Parameter	Type	Example	Description
codeContent	String	Lookup table content	The content of the lookup table.
extendNameContent	String	Lookup table	The display name of the lookup table.
nameContent	String	Lookup table name	The name of the lookup table.
description	String	Description	The description of the lookup table.
uuid	String	obj-123456	The UUID of the lookup table.
gmtCreate	Date	1633885261000	The time when the lookup table was created.
gmtModified	Date	1633885261000	The time when the lookup table was last modified.
creatorId	String	0123456	The ID of the user who created the lookup table.
creatorName	String	A, B, C, and D	The name of the user who created the lookup table.
modifierId	String	0123456	The ID of the user who last modified the lookup table.

Parameter	Type	Example	Description
modifierName	String	A, B, C, and D	The name of the user who last modified the lookup table.

FML statement used to query tables

show tables;

Response parameters

Parameter	Type	Example	Description
code	String	dim_shop	The code of the table.
name	String	Shop table	The display name of the table.
type	Integer	1	The type of the table. Valid values: 0 and 1. A value of 0 indicates a fact table. A value of 1 indicates a dimension table.
detailType	String	normal	The subtype of the table, such as a common dimension table, an enumeration dimension table, or a transaction fact table.
businessProcessUuid	String	bp-123456	The UUID of the business process.
businessUnitUuid	String	bu-123456	The UUID of the business unit.
dataWarehouseLayerUuid	String	ly-123456	The UUID of the data layer.

Parameter	Type	Example	Description
businessCategoryUuid	String	bc-123456	The UUID of the business category.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
description	String	Description	The description of the table.
config	String	JSON string	The extended configurations for the table.
lifeCycle	Integer	365	The lifecycle of the table.
uuid	String	obj-123456	The UUID of the table.
gmtCreate	Date	1633885261000	The time when the table was created.
gmtModified	Date	1633885261000	The time when the table was last modified.
creatorId	String	0123456	The ID of the user who created the table.
creatorName	String	A, B, C, and D	The name of the user who created the table.
modifierId	String	0123456	The ID of the user who last modified the table.
modifierName	String	A, B, C, and D	The name of the user who last modified the table.

FML statement used to query dimension tables

show dim tables;

Response parameters

Parameter	Type	Example	Description
code	String	dim_shop	The code of the dimension table.
name	String	Shop table	The display name of the dimension table.
type	Integer	1	The type of the table. Valid values: 0 and 1. A value of 0 indicates a fact table. A value of 1 indicates a dimension table.
detailType	String	normal	The subtype of the table, such as a common dimension table, an enumeration dimension table, or a transaction fact table.
businessProcessUuid	String	bp-123456	The UUID of the business process.
businessUnitUuid	String	bu-123456	The UUID of the business unit.
dataWarehouseLayerUuid	String	ly-123456	The UUID of the data layer.
businessCategoryUuid	String	bc-123456	The UUID of the business category.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.

Parameter	Type	Example	Description
description	String	Description	The description of the dimension table.
config	String	JSON string	The extended configurations for the dimension table.
lifeCycle	Integer	365	The lifecycle of the dimension table.
uuid	String	obj-123456	The UUID of the dimension table.
gmtCreate	Date	1633885261000	The time when the dimension table was created.
gmtModified	Date	1633885261000	The time when the dimension table was last modified.
creatorId	String	0123456	The ID of the user who created the dimension table.
creatorName	String	A, B, C, and D	The name of the user who created the dimension table.
modifierId	String	0123456	The ID of the user who last modified the dimension table.
modifierName	String	A, B, C, and D	The name of the user who last modified the dimension table.

FML statement used to query fact tables

show fact tables;

Response parameters

Parameter	Type	Example	Description
code	String	dim_shop	The code of the fact table.
name	String	Shop table	The display name of the fact table.
type	Integer	1	The type of the table. Valid values: 0 and 1. A value of 0 indicates a fact table. A value of 1 indicates a dimension table.
detailType	String	normal	The subtype of the table, such as a common dimension table, an enumeration dimension table, or a transaction fact table.
businessProcessUuid	String	bp-123456	The UUID of the business process.
businessUnitUuid	String	bu-123456	The UUID of the business unit.
dataWarehouseLayerUuid	String	ly-123456	The UUID of the data layer.
businessCategoryUuid	String	bc-123456	The UUID of the business category.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
description	String	Description	The description of the fact table.

Parameter	Type	Example	Description
config	String	JSON string	The extended configurations for the fact table.
lifeCycle	Integer	365	The lifecycle of the fact table.
uuid	String	obj-123456	The UUID of the fact table.
gmtCreate	Date	1633885261000	The time when the fact table was created.
gmtModified	Date	1633885261000	The time when the fact table was last modified.
creatorId	String	0123456	The ID of the user who created the fact table.
creatorName	String	A, B, C, and D	The name of the user who created the fact table.
modifierId	String	0123456	The ID of the user who last modified the fact table.
modifierName	String	A, B, C, and D	The name of the user who last modified the fact table.

FML statement used to query aggregate tables

show dws tables;

Response parameters

Parameter	Type	Example	Description
dataDomainUuid	String	dm-12345	The UUID of the data domain.

Parameter	Type	Example	Description
dataDomainCode	String	member	The code of the data domain.
dataDomainName	String	Member	The name of the data domain.
timePeriods	List	Periods	The periods for the aggregate table.
uuid	String	Object UUID	The UUID of the period.
code	String	Abbreviation	The code of the period.
name	String	Display name	The display name of the period.
adjuncts	List	Modifiers	The modifiers for the aggregate table.
uuid	String	uuid	The UUID of the modifier.
code	String	code	The code of the modifier.
name	String	name	The name of the modifier.
dimensions	List	Associated dimensions	The dimensions that are associated with the aggregate table.
uuid	String	dm-123456	The UUID of the data domain.
bizEntityUuid	String	dim-123456	The UUID of the business object.

Parameter	Type	Example	Description
bizEntityCode	String	dim_shop	The code of the business object.
bizEntityName	String	Shop table	The display name of the business object.
relUuid	String	dim_a-123456	The UUID of the dimension that is associated with the aggregate table.
code	String	slr	The code of the dimension that is associated with the aggregate table.
name	String	Seller	The display name of the dimension that is associated with the aggregate table.
code	String	dim_shop	The code of the aggregate table.
name	String	Shop table	The display name of the aggregate table.
type	Integer	1	The type of the table. Valid values: 0 and 1. A value of 0 indicates a fact table. A value of 1 indicates a dimension table.

Parameter	Type	Example	Description
detailType	String	normal	The subtype of the table, such as a common dimension table, an enumeration dimension table, or a transaction fact table.
businessProcessUuid	String	bp-123456	The UUID of the business process.
businessUnitUuid	String	bu-123456	The UUID of the business unit.
dataWarehouseLayerUuid	String	ly-123456	The UUID of the data layer.
businessCategoryUuid	String	bc-123456	The UUID of the business category.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
description	String	Description	The description of the aggregate table.
config	String	JSON string	The extended configurations for the aggregate table.
lifeCycle	Integer	365	The lifecycle of the aggregate table.
uuid	String	obj-123456	The UUID of the aggregate table.

Parameter	Type	Example	Description
gmtCreate	Date	1633885261000	The time when the aggregate table was created.
gmtModified	Date	1633885261000	The time when the aggregate table was last modified.
creatorId	String	0123456	The ID of the user who created the aggregate table.
creatorName	String	A, B, C, and D	The name of the user who created the aggregate table.
modifierId	String	0123456	The ID of the user who last modified the aggregate table.
modifierName	String	A, B, C, and D	The name of the user who last modified the aggregate table.

FML statement used to query tables and return the fields of each table

show full tables;

Response parameters

Parameter	Type	Example	Description
tableUuid	String	tb-123456	The UUID of the table.
tableCode	String	dim_shop	The code of the table.
tableName	String	Shop table	The name of the table.

Parameter	Type	Example	Description
columnCode	String	shop_id	The code of the column.
columnName	String	Shop ID	The name of the column.
columnUuid	String	col-123456	The UUID of the column.
columnType	String	STRING	The data type of the column.
columnCategory	String	ATTRIBUTE	The type of the column.

FML statement used to query the fields of a table

show columns from table_code;

Response parameters

Parameter	Type	Example	Description
code	String	seller_id	The code of the column.
name	String	Seller ID	The display name of the column.
dataType	String	STRING	The data type of the field.
type	String	ATTRIBUTE	The type of the field.
isPrimaryKey	Boolean	false	Indicates whether the field is a primary key column.
isPartitionKey	Boolean	false	Indicates whether the field is a partition key column.

Parameter	Type	Example	Description
partitionOrder	Integer	1	The order of the partition key column.
notNull	Boolean	true	Indicates whether the field is non-null.
dataDictionaryUuid	String	member_id	The UUID of the data standard.
dataDictionaryCode	String	Member ID	The name of the data standard.
codeTableUuid	String	cd-123456	The UUID of the lookup table.
codeTableCode	String	sex	The code of the lookup table.
codeTableName	String	Gender	The name of the lookup table.
measureUnitCode	String	percent	The code of the measurement unit.
measureUnitName	String	Minute	The name of the measurement unit.
sourceProjectName	String	autotest	The name of the source workspace.
sourceTableCode	String	dict	The code of the source table.
sourceColumnCode	String	age	The code of the source field.
sourceRelationTag	String	label	The tag of the source relationship.

Parameter	Type	Example	Description
description	String	Description	The description of the field.
orderId	String	1	The order of the field.
columnGroupName	Integer	col_group_1	The name of the group to which the field belongs.
relationshipList	List	Field relationships	The relationships between fields.
rightTableCode	String	Table code	The code of the table that is associated with the field.
rightTableType	Integer	Table type	The type of the table that is associated with the field.
rightColumnCode	String	Field code	The code of the field that is associated with the current field.
config	String	JSON string	The extended configurations for the field.
uuid	String	obj-123456	The UUID of the field.
gmtCreate	Date	1633885261000	The time when the field was created.
gmtModified	Date	1633885261000	The time when the field was last modified.
creatorId	String	0123456	The ID of the user who created the field.

Parameter	Type	Example	Description
creatorName	String	A, B, C, and D	The name of the user who created the field.
modifierId	String	0123456	The ID of the user who last modified the field.
modifierName	String	A, B, C, and D	The name of the user who last modified the field.

FML statement used to query modifiers

show adjuncts;

Response parameters

Parameter	Type	Example	Description
businessUnitUuid	String	bu-123456	The UUID of the business unit.
businessUnitCode	String	test_bu	The code of the business unit.
businessUnitName	String	Test unit	The name of the business unit.
dataDomainUuid	String	dt-123456	The UUID of the data domain.
dataDomainCode	String	member	The code of the data domain.
dataDomainName	String	Member	The name of the data domain.
categoryUuid	String	cy-123456	The UUID of the business category.

Parameter	Type	Example	Description
categoryCode	String	trade	The code of the business category.
categoryName	String	E-commerce	The name of the business category.
type	AdjunctTypeEnum	DIM_VAL	The type of the modifier.
code	String	beauty	The code of the modifier.
name	String	Makeup	The display name of the modifier.
extendName	String	beauty	The name of the modifier.
description	String	Description	The description of the modifier.
bizExpression	String	Statistical criterion	The statistical criterion of the modifier.
expression	String	beauty = 1	The expression of the modifier.
dimension	DimensionEntityDTO	Dimension	The definition of the dimension.
uuid	String	dm-123456	The UUID of the data domain.
bizEntityUuid	String	dim-123456	The UUID of the business object.
bizEntityCode	String	dim_shop	The code of the business object.

Parameter	Type	Example	Description
bizEntityName	String	Shop table	The display name of the business object.
relUuid	String	dim_a-123456	The UUID of the dimension that is associated with the modifier.
code	String	slr	The code of the dimension that is associated with the modifier.
name	String	Seller	The display name of the dimension that is associated with the modifier.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
isDeleted	DeleteTagEnum	NO	Indicates whether the modifier is deleted.
tempUuid	String	Temporary UUID	The temporary UUID that is used to perform batch operations on objects.
uuid	String	obj-123456	The UUID of the modifier.
gmtCreate	Date	1633885261000	The time when the modifier was created.
gmtModified	Date	1633885261000	The time when the modifier was last modified.

Parameter	Type	Example	Description
creatorId	String	0123456	The ID of the user who created the modifier.
creatorName	String	A, B, C, and D	The name of the user who created the modifier.
modifierId	String	0123456	The ID of the user who last modified the modifier.
modifierName	String	A, B, C, and D	The name of the user who last modified the modifier.

FML statement used to query periods

show time_periods;

Response parameters

Parameter	Type	Example	Description
businessUnitUuid	String	bu-123456	The UUID of the business unit to which the period belongs.
businessUnitCode	String	test_bu	The code of the business unit.
type	TimePeriodTypeEnum	DAY	The type of the period.
typeName	String	Day	The name of the type of the period.
code	String	1d	The code of the period.
name	String	One day	The display name of the period.

Parameter	Type	Example	Description
extendName	String	1d	The name of the period.
description	String	Description	The description of the period.
isDeleted	DeleteTagEnum	NO	Indicates whether the period is deleted.
timeBegin	String	start_expression	The expression for the start time.
timeEnd	String	end_expression	The expression for the end time.
gmtCreate	Date	1633885261000	The time when the period was created.
gmtModified	Date	1633885261000	The time when the period was last modified.
modifierId	String	0123456	The ID of the user who last modified the period.
modifierName	String	A, B, C, and D	The display name of the user who last modified the period.
ownerId	String	0123456	The ID of the owner.
ownerName	String	A, B, C, and D	The name of the owner.
templateType	TimePeriodTemplateEnum	Period type	The type of the period.
beginOffset	Integer	1	The offset of the start time.

Parameter	Type	Example	Description
endOffset	Integer	1	The offset of the end time.
firstDay	Integer	1	The first day of the period. This parameter is returned if the type of the period is set to WEEK, MONTH, QUARTER, or YEAR. Valid values if the type of the period is set to WEEK: 1 to 7, which indicate Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. Valid values if the type of the period is set to MONTH: 1, 99, and 2 to 27. A value of 1 indicates the first day of the month, a value of 99 indicates the end of the month, and values from 2 to 27 indicate the 2nd to 27th days of the month. Valid values if the type of the period is set to QUARTER: 0 to 11, which indicate January to December. Valid values if the type of the period is set to YEAR: 0 to 11, which indicate January to December.
tempUuid	String	Temporary UUID	The temporary UUID that is used to perform batch operations on objects.
uuid	String	obj-123456	The UUID of the period.
gmtCreate	Date	1633885261000	The time when the period was created.

Parameter	Type	Example	Description
gmtModified	Date	1633885261000	The time when the period was last modified.
creatorId	String	0123456	The ID of the user who created the period.
creatorName	String	A, B, C, and D	The name of the user who created the period.
modifierId	String	0123456	The ID of the user who last modified the period.
modifierName	String	A, B, C, and D	The name of the user who last modified the period.

FML statement used to query atomic metrics

show atomic indicators;

Response parameters

Parameter	Type	Example	Description
dataDistinct	YesOrNoEnum	YES	Indicates whether duplicate data is removed during statistics collection.
aggFunctionType	AggFunctionEnum	SUM	The type of the function for the atomic metric.
calExpression	String	price	The expression of the atomic metric.
dataType	DataTypeNameEnum	TINYINT	The data type of the atomic metric.

Parameter	Type	Example	Description
dataRound	String	N	The number of decimal places after the decimal point. Valid values: N and M.
dataUnitUuid	String	du-123456	The UUID of the metric unit.
dataUnitCode	String	percent	The code of the metric unit.
dataUnitName	String	Minute	The name of the metric unit.
bizExpression	String	Statistical criterion	The statistical criterion of the atomic metric.
dataRollUpType	DataRollUpEnum	AGG_FUNCTION	The method of the data roll-up.
businessUnitUuid	String	Business unit UUID	The UUID of the business unit.
businessUnitCode	String	Business unit code	The code of the business unit.
businessProcessUuid	String	Business process UUID	The UUID of the business process.
businessProcessCode	String	Business process code	The code of the business process.
businessProcessName	String	Business process name	The name of the business process.
dataDomainUuid	String	Data domain UUID	The UUID of the data domain.

Parameter	Type	Example	Description
dataDomainCode	String	Data domain code	The code of the data domain.
dataDomainName	String	Data domain name	The name of the data domain.
categoryUuid	String	Business category UUID	The UUID of the business category.
categoryCode	String	Business category code	The code of the business category.
categoryName	String	Business category name	The name of the business category.
type	IndicatorTypeEnum	Metric type	The type of the metric.
code	String	Abbreviation	The code of the atomic metric.
name	String	Display name	The display name of the atomic metric.
extendName	String	Atomic metric	The name of the atomic metric.
description	String	Description	The description of the atomic metric.
status	IndicatorStatusEnum	Metric state	The status of the atomic metric.
ownerId	String	Owner ID	The ID of the owner.
ownerName	String	Owner name	The name of the owner.

Parameter	Type	Example	Description
isDeleted	DeleteTagEnum	NO	Indicates whether the atomic metric is deleted.
tempUuid	String	Temporary UUID	The temporary UUID that is used to perform batch operations on objects.
uuid	String	obj-123456	The UUID of the atomic metric.
gmtCreate	Date	1633885261000	The time when the atomic metric was created.
gmtModified	Date	1633885261000	The time when the atomic metric was last modified.
creatorId	String	0123456	The ID of the user who created the atomic metric.
creatorName	String	A, B, C, and D	The name of the user who created the atomic metric.
modifierId	String	0123456	The ID of the user who last modified the atomic metric.
modifierName	String	A, B, C, and D	The name of the user who last modified the atomic metric.

FML statement used to query derived metrics

show derivative indicators;

Response parameters

Parameter	Type	Example	Description
timePeriodUuid	String	Period UUID	The UUID of the period.
timePeriodCode	String	Period code	The code of the period.
timePeriodName	String	Period display name	The display name of the period.
adjunctUuids	List	Modifier UUIDs	The UUIDs of modifiers.
adjunctCodes	List	Modifier codes	The codes of modifiers.
adjunctNames	List	Modifier display names	The display names of modifiers.
atomicIndicatorUuid	String	Atomic metric UUID	The UUID of the atomic metric.
atomicIndicatorCode	String	Atomic metric code	The code of the atomic metric.
atomicIndicatorName	String	Atomic metric display name	The display name of the atomic metric.
dataType	DataTypeNameEnum	Data type	The data type of the derived metric.
indicatorDimensionList	List	Associated dimensions	The dimensions that are associated with the derived metric.
uuid	String	dm-123456	The UUID of the data domain.
bizEntityUuid	String	dim-123456	The UUID of the business object.
bizEntityCode	String	dim_shop	The code of the business object.

Parameter	Type	Example	Description
bizEntityName	String	Shop table	The display name of the business object.
relUuid	String	dim_a-123456	The UUID of the dimension that is associated with the derived metric.
code	String	slr	The code of the dimension that is associated with the derived metric.
name	String	Seller	The display name of the dimension that is associated with the derived metric.
indHash	String	Metric hash	The hash value for the elements of the derived metric.
suggestCode	String	Recommended code	The recommended code that is used by the derived metric.
businessUnitUuid	String	Business unit UUID	The UUID of the business unit.
businessUnitCode	String	Business unit code	The code of the business unit.
businessProcessUuid	String	Business process UUID	The UUID of the business process.
businessProcessCode	String	Business process code	The code of the business process.
businessProcessName	String	Business process name	The name of the business process.

Parameter	Type	Example	Description
dataDomainUuid	String	Data domain UUID	The UUID of the data domain.
dataDomainCode	String	Data domain code	The code of the data domain.
dataDomainName	String	Data domain name	The name of the data domain.
categoryUuid	String	Business category UUID	The UUID of the business category.
categoryCode	String	Business category code	The code of the business category.
categoryName	String	Business category name	The name of the business category.
type	IndicatorTypeEnum	Metric type	The type of the metric.
code	String	Derived metric code	The code of the derived metric.
name	String	Display name	The display name of the derived metric.
extendName	String	Derived metric	The name of the derived metric.
description	String	Description	The description of the derived metric.
status	IndicatorStatusEnum	Metric state	The status of the derived metric.
ownerId	String	Owner ID	The ID of the owner.
ownerName	String	Owner name	The name of the owner.

Parameter	Type	Example	Description
isDeleted	DeleteTagEnum	NO	Indicates whether the derived metric is deleted.
tempUuid	String	Temporary UUID	The temporary UUID that is used to perform batch operations on objects.
uuid	String	obj-123456	The UUID of the derived metric.
gmtCreate	Date	1633885261000	The time when the derived metric was created.
gmtModified	Date	1633885261000	The time when the derived metric was last modified.
creatorId	String	0123456	The ID of the user who created the derived metric.
creatorName	String	A, B, C, and D	The name of the user who created the derived metric.
modifierId	String	0123456	The ID of the user who last modified the derived metric.
modifierName	String	A, B, C, and D	The name of the user who last modified the derived metric.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=QueryPublicModelEngine
&Text=show dim tables
&ProjectId=1234
&<Common request parameters>
```

Description of sample requests

```
The following code is the sample demo of the SDK for Java:
 QueryPublicModelEngineRequest request = new QueryPublicModelEngineRequest();
 request.setProjectId(this.projectId);
 request.setText("show layers;");
 QueryPublicModelEngineResponse response = client.getAcsResponse(request);
 // The following sample code provides an example on how to return data in the JSON format.
Process the returned data as required when you use the sample code.
 ObjectMapper objectMapper = new ObjectMapper();
 objectMapper.enable(SerializationFeature.INDENT_OUTPUT);
 objectMapper.setTimeZone(TimeZone.getTimeZone("GMT+8"));
 String s = objectMapper.writeValueAsString(obj);
 System.out.println(s);
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryPublicModelEngineResponse>
    <RequestId>4CFB2DED-7D9B-4C42-B4AA-CFF4991DFFF4</RequestId>
    <ReturnValue/>
</QueryPublicModelEngineResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4CFB2DED-7D9B-4C42-B4AA-CFF4991DFFF4",
  "ReturnValue" : ""
}
```

Description of sample responses

```
The following results are returned for the sample demo of the SDK for Java:
{
 "requestId" : "x-request-id",
 "returnValue" : [ {
   "uuid" : "obj-123456",
   "gmtCreate" : 1638857552348,
   "gmtModified" : 1638857552351,
   "creatorId" : "0123456",
   "creatorName" : "A, B, C, and D",
   "modifierId" : "0123456",
   "modifierName" : "A, B, C, and D",
   "code" : "dws",
   "englishName" : "dws",
   "name" : "DWS layer",
   "ownerId" : "0123456",
   "ownerName" : "A, B, C, and D",
   "description" : "Description of the DWS layer"
 } ]
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Valid.FML.NoPermission	You are not authorized to access the project resources.	The error message returned because you are not authorized to access resources in the workspace.
400	Valid.FML.OnlySupportQueryStatement	Only FML query statement is supported.	The error message returned because only FML statements are supported.
400	Valid.FML.ProjectNotExist	The project does not exist.	The error message returned because the workspace does not exist. Check your settings.
400	Valid.FML.StatementNotValid	The FML statement is invalid.	The error message returned because the FML statement is invalid. For more information, see the FML syntax documentation at https://dataworks-doc.yuque.com/docs/share/ff7899ed-c433-4970-b20e-6582ea3939f3?#.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has reached the upper limit. Submit a ticket for help.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Execute.FML.Process Error	Failed to execute FML statement.	The error message returned because the FML statement fails to be executed. Try again later.

For a list of error codes, visit the API Error Center.

7.Operation Center

7.1. ListAlertMessages

Queries the information about alerts. You can query alerts that are triggered within the last 30 days at most.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListAlertMessages	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page to return. Valid values: 1 to 30. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. The maximum number of entries that can be returned on each page is 100.
BeginTime	String	Yes	2020-04-02T00:00:00+0800	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-dd'T'HH:mm:ssZ format. The time must be in UTC.
EndTime	String	Yes	2020-04-04T00:00:00+0800	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-dd'T'HH:mm:ssZ format. The time must be in UTC.
RegionId	String	Yes	cn-shanghai	The ID of the region.
RemindId	Long	No	9527	The ID of the custom alert rule. This parameter takes effect if the AlertRuleTypes parameter is set to USER_DEFINE.

Parameter	Type	Required	Example	Description
AlertMethods	String	No	SMS,MAIL,PHONE	The notification method. Valid values: MAIL, SMS, and PHONE. A value of MAIL indicates that the notification is sent by using emails. A value of SMS indicates that the notification is sent by using text messages. A value of PHONE indicates that the notification is sent by making phone calls. Phone calls are supported only by DataWorks Professional Edition and more advanced editions. You can specify multiple notification methods. Separate the specified notification methods with commas (,).
AlertUser	String	No	123456	The ID of the Alibaba Cloud account used by the alert recipient.
AlertRuleTypes	String	No	GLOBAL,USER_DEFINE,OHTER	The type of the alert rule. Valid values: GLOBAL, USER_DEFINE, and OTHER. A value of GLOBAL indicates that the alert rule is a global alert rule. A value of USER_DEFINE indicates that the alert rule is customized by a user. A value of OTHER indicates that the alert rule is a rule of another type. You can specify multiple types. Separate them with commas (,).

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information about returned alerts.
AlertMessages	Array of AlertMessages		The alerts.
AlertId	Long	1234	The ID of the alert.

Parameter	Type	Example	Description
AlertMessageStatus	String	READY_TO_SEND	The sending status of the notification. Valid values: READY_TO_SEND, SEND_FAIL, SEND_SUCCESS, and SEND_OVERLIMIT. A value of READY_TO_SEND indicates that the notification is waiting to be sent. A value of SEND_FAIL indicates that the notification fails to be sent. A value of SEND_SUCCESS indicates that the notification is sent. A value of SEND_OVERLIMIT indicates that the number of notifications that are sent exceeds the upper limit.
AlertMethod	String	SMS	The notification method. Valid values: MAIL, SMS, and PHONE. A value of MAIL indicates that the notification is sent by using emails. A value of SMS indicates that the notification is sent by using text messages. A value of PHONE indicates that the notification is sent by making phone calls. Phone calls are supported only by DataWorks Professional Edition and more advanced editions.
AlertTime	Long	1553531401000	The timestamp when the alert was reported.
AlertUser	String	9527952795****	The ID of the Alibaba Cloud used by the alert recipient.
Content	String	Errors on a node	The content of the alert.
Instances	Array of Instances		The instances that triggered the custom alert rule. This parameter is returned if the value of the Source parameter is REMIND_ALERT. This parameter is left empty if the value of the Source parameter is not REMIND_ALERT.
InstanceId	Long	12345	The ID of the instance.
NodeId	Long	1234	The ID of the node.
NodeName	String	Node name	The name of the node.

Parameter	Type	Example	Description
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
Status	String	NOT_RUN	The status of the instance. Valid values: NOT_RUN, WAIT_TIME, WAIT_RESOURCE, RUNNING, CHECKING, CHECKING_CONDITION, FAILURE, and SUCCESS. A value of NOT_RUN indicates that the instance is not run. A value of WAIT_TIME indicates that the instance is waiting to be run. A value of WAIT_RESOURCE indicates that the instance is waiting for resources. A value of RUNNING indicates that the instance is running. A value of CHECKING indicates that data quality is being checked for the node. A value of CHECKING_CONDITION indicates that branch conditions are being checked for the node. A value of FAILURE indicates that the instance fails to run. A value of SUCCESS indicates that the instance is run.
Nodes	Array of Nodes		The nodes returned for different alert sources. • The nodes that form a loop are returned if the value of the Source parameter is NODE_CYCLE_ALERT. • The nodes that are isolated from each other are returned if the value of the Source parameter is NODE_LONELY_ALERT.
NodeId	Long	1234	The ID of the node.
NodeName	String	Node name	The name of the node.
Owner	String	95279527952****	The ID of the Alibaba Cloud account used by the owner of the node.
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
RemindId	Long	1234	The ID of the custom alert rule that was triggered. This parameter is returned if the value of the Source parameter is REMIND_ALERT.

Parameter	Type	Example	Description
RemindName	String	Name of the custom alert rule	The name of the custom alert rule that was triggered. This parameter is returned if the value of the Source parameter is REMIND_ALERT.
SlaAlert	Struct		The basic information about the baseline instance that triggered an alert. This parameter is returned if the value of the Source parameter is SLA_ALERT. This parameter is left empty if the value of the Source parameter is not SLA_ALERT.
BaselineId	Long	1234	The ID of the baseline.
BaselineName	String	Baseline name	The name of the baseline.
BaselineOwner	String	952795279****	The ID of the Alibaba Cloud account used by the baseline owner. Multiple IDs are separated by commas (,).
Bizdate	Long	1553443200000	The data timestamp of the baseline instance.
InGroupId	Integer	1	The ID of the cycle of the baseline instance. Valid values of the ID of an hour-level cycle: 1 to 24. The ID of a day-level cycle is 1.
ProjectId	Long	1234	The ID of the workspace to which the baseline belongs.

Parameter	Type	Example	Description
Status	String	SAFE	The status of the baseline. Valid values: ERROR, SAFE, DANGROUS, and OVER. A value of ERROR indicates that no nodes are associated with the baseline, or all nodes associated with the baseline are suspended. A value of SAFE indicates that nodes are run before the alert duration begins. A value of DANGROUS indicates that nodes are still running after the alert duration ends but the committed time does not arrive. A value of OVER indicates that nodes are still running after the committed time.
Source	String	REMIND_ALERT	The type of the alert. Valid values: REMIND_ALERT, TOPIC_ALERT, SLA_ALERT, NODE_CYCLE_ALERT, and NODE_LONELY_ALERT. A value of REMIND_ALERT indicates that the alert is a custom alert. A value of TOPIC_ALERT indicates that the alert is an event alert. A value of SLA_ALERT indicates that the alert is a baseline alert. A value of NODE_CYCLE_ALERT indicates that the alert is a nodes-into-loop alert. A value of NODE_LONELY_ALERT indicates that the alert is a node isolation alert.
Topics	Array of Topics		The events that triggered alerts. This parameter is returned if the value of the Source parameter is TOPIC_ALERT. This parameter is left empty if the value of the Source parameter is not TOPIC_ALERT.
InstanceId	Long	12345	The ID of the instance that triggered the event.
NodeId	Long	1234	The ID of the node that triggered the event.
TopicId	Long	1234	The ID of the event.

Parameter	Type	Example	Description
TopicName	String	9527 error	The name of the event.
TopicOwner	String	9527952795****	The ID of the Alibaba Cloud account used by the event owner.
TopicStatus	String	FIXING	The status of the event. Valid values: IGNORE, NEW, FIXING, and RECOVER. A value of IGNORE indicates that the event is ignored. A value of NEW indicates that the event is a new event. A value of FIXING indicates that the event is being handled. A value of RECOVER indicates that the event is handled.
PageNumber	String	1	The page number of the returned page.
PageSize	String	10	The number of entries returned on each page.
TotalCount	String	100	The total number of returned alerts.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request. You can troubleshoot errors based on the ID.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListAlertMessages
&BeginTime=2020-04-02T00:00:00+0800
&EndTime=2020-04-04T00:00:00+0800
&PageNumber=1
&PageSize=10
&RegionId=cn-shanghai
&RemindId=9527
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TotalCount>100</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
    <AlertMessages>
        <AlertUser>12345</AlertUser>
        <AlertMessageStatus>READY_TO_SEND</AlertMessageStatus>
        <RemindId>9527</RemindId>
        <AlertId>9527</AlertId>
        <Content>Errors on a node</Content>
        <AlertMethod>SMS</AlertMethod>
        <AlertTime>1553531401000</AlertTime>
        <Source>REMIND_ALERT</Source>
        <RemindName>Name of the custom alert rule</RemindName>
    </AlertMessages>
    <AlertMessages>
        <Instances>
            <Status>NOT_RUN</Status>
            <NodeName>Node name</NodeName>
            <InstanceId>95279527</InstanceId>
            <NodeId>1234</NodeId>
            <ProjectId>1234</ProjectId>
        </Instances>
        <Instances>
            <TopicOwner>9527952795****</TopicOwner>
            <InstanceId>12345</InstanceId>
            <NodeId>1234</NodeId>
            <TopicId>1234</TopicId>
            <TopicStatus>FIXING</TopicStatus>
            <TopicName>9527 error</TopicName>
        </Instances>
        <Instances>
            <Owner>12345</Owner>
            <NodeName>Node name</NodeName>
            <NodeId>1234</NodeId>
            <ProjectId>1234</ProjectId>
        </Instances>
        <Topics>
            <Status>NOT_RUN</Status>
```

```
            <NodeName>Node name</NodeName>
            <InstanceId>12345</InstanceId>
            <NodeId>1234</NodeId>
            <ProjectId>1234</ProjectId>
        </Topics>
        <Topics>
            <TopicOwner>95279527****</TopicOwner>
            <InstanceId>95279527</InstanceId>
            <NodeId>9527</NodeId>
            <TopicId>9527</TopicId>
            <TopicStatus>FIXING</TopicStatus>
            <TopicName>9527 error</TopicName>
        </Topics>
        <Topics>
            <Owner>95279527****</Owner>
            <NodeName>Node name</NodeName>
            <NodeId>9527</NodeId>
            <ProjectId>9527</ProjectId>
        </Topics>
        <Nodes>
            <Status>NOT_RUN</Status>
            <NodeName>Node name</NodeName>
            <InstanceId>95279527</InstanceId>
            <NodeId>9527</NodeId>
            <ProjectId>9527</ProjectId>
        </Nodes>
        <Nodes>
            <TopicOwner>95279527****</TopicOwner>
            <InstanceId>95279527</InstanceId>
            <NodeId>9527</NodeId>
            <TopicId>9527</TopicId>
            <TopicStatus>FIXING</TopicStatus>
            <TopicName>9527 error</TopicName>
        </Nodes>
        <Nodes>
            <Owner>95279527****</Owner>
            <NodeName>Node name</NodeName>
            <NodeId>9527</NodeId>
            <ProjectId>9527</ProjectId>
        </Nodes>
    </AlertMessages>
    <AlertMessages>
        <SlaAlert>
            <BaselineId>9527</BaselineId>
            <Status>SAFE</Status>
            <BaselineOwner>95279527****</BaselineOwner>
            <BaselineName>Baseline name</BaselineName>
            <ProjectId>9527</ProjectId>
            <Bizdate>1553443200000</Bizdate>
            <InGroupId>1</InGroupId>
        </SlaAlert>
    </AlertMessages>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
```

```
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format


```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": {
        "TotalCount": 100,
        "PageSize": 10,
        "PageNumber": 1,
        "AlertMessages": [
            {
                "AlertUser": 12345,
                "AlertMessageStatus": "READY_TO_SEND",
                "RemindId": 9527,
                "AlertId": 9527,
                "Content": "Errors on a node",
                "AlertMethod": "SMS",
                "AlertTime": 1553531401000,
                "Source": "REMIND_ALERT",
                "RemindName": "Name of the custom alert rule"
            },
            {
                "Instances": [
                    {
                        "Status": "NOT_RUN",
                        "NodeName": "Node name",
                        "InstanceId": 95279527,
                        "NodeId": 1234,
                        "ProjectId": 1234
                    },
                    {
                        "TopicOwner": "9527952795****",
                        "InstanceId": 12345,
                        "NodeId": 1234,
                        "TopicId": 1234,
                        "TopicStatus": "FIXING",
                        "TopicName": "9527 errors"
                    },
                    {
                        "Owner": 12345,
                        "NodeName": "Node name",
                        "NodeId": 1234,
                        "ProjectId": 1234
                    }
                ],
                "Topics": [
                    {
                        "Status": "NOT_RUN",
                        "NodeName": "Node name",
                        "InstanceId": 12345,
                        "NodeId": 1234,
                        "ProjectId": 1234
```

```
                    "ProjectId": 1234
                },
                {
                    "TopicOwner": "95279527****",
                    "InstanceId": 95279527,
                    "NodeId": 9527,
                    "TopicId": 9527,
                    "TopicStatus": "FIXING",
                    "TopicName": "9527 errors"
                },
                {
                    "Owner": "95279527****",
                    "NodeName": "Node name",
                    "NodeId": 9527,
                    "ProjectId": 9527
                }
            ],
            "Nodes": [
                {
                    "Status": "NOT_RUN",
                    "NodeName": "Node name",
                    "InstanceId": 95279527,
                    "NodeId": 9527,
                    "ProjectId": 9527
                },
                {
                    "TopicOwner": "95279527****",
                    "InstanceId": 95279527,
                    "NodeId": 9527,
                    "TopicId": 9527,
                    "TopicStatus": "FIXING",
                    "TopicName": "9527 errors"
                },
                {
                    "Owner": "95279527****",
                    "NodeName": "Node name",
                    "NodeId": 9527,
                    "ProjectId": 9527
                }
            ]
        },
        {
            "SlaAlert": {
                "BaselineId": 9527,
                "Status": "SAFE",
                "BaselineOwner": "95279527****",
                "BaselineName": "Baseline name",
                "ProjectId": 9527,
                "Bizdate": 1553443200000,
                "InGroupId": 1
            }
        }
    ]
},
"ErrorCode": "Invalid.Tenant.ConnectionNotExists",
```

```
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been used up. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.2. GetBaselineConfig

Queries the configurations of a baseline.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetBaselineConfig	The operation that you want to perform. Set the value to **GetBaselineConfig**.
RegionId	String	Yes	cn-shanghai	The region ID.
BaselineId	Long	Yes	1234	The ID of the baseline. You can call the GetNode operation to obtain the ID.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	401	The HTTP status code.
RequestId	String	ecb967ec-c137-48a5-860****	The ID of the request.
ErrorMessage	String	The specified parameters are invalid.	The error message.
ErrorCode	String	1031203110005	The error code.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The details of the baseline.

Parameter	Type	Example	Description
HourSlaDetail	String	null	The committed time of the hour-level baseline. This parameter is presented as key-value pairs in the JSON format. The key indicates the ID of the cycle, and the value is presented in the hh:mm format. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59.
IsDefault	Boolean	true	Indicates whether the baseline is a default baseline of the workspace. Valid values: true and false.
Owner	String	9527952****	The ID of the Alibaba Cloud account used by the baseline owner. Multiple IDs are separated by commas (,).
ProjectId	Long	1234	The ID of the workspace.
Priority	Integer	1	The priority of the baseline. Valid values: 1, 3, 5, 7, and 8.
SlaMinu	Integer	30	The minute in the committed time of the day-level baseline. Valid values: 0 to 59.
SlaHour	Integer	9	The hour in the committed time of the day-level baseline. Valid values: 0 to 47.
BaselineId	Long	1234	The ID of the baseline.
BaselineName	String	Baseline name	The name of the baseline.
HourExpDetail	String	null	The alert time of the hour-level baseline. This parameter is presented as key-value pairs in the JSON format. The key indicates the ID of the cycle, and the value is presented in the hh:mm format. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59.

Parameter	Type	Example	Description
UseFlag	Boolean	true	Indicates whether the baseline is enabled. Valid values: true and false.
ExpHour	Integer	7	The hour in the alert time of the day-level baseline. Valid values: 0 to 47.
BaselineType	String	DAILY	The type of the baseline. Valid values: DAILY and HOURLY. The value DAILY indicates that the baseline is a day-level baseline. The value HOURLY indicates that the baseline is an hour-level baseline.
ExpMinu	Integer	30	The minute in the alert time of the day-level baseline. Valid values: 0 to 59.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetBaselineConfig
&BaselineId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetBaselineConfigResponse>
    <HttpStatusCode>401</HttpStatusCode>
    <RequestId>ecb967ec-c137-48a5-860****</RequestId>
    <ErrorMessage>The specified parameters are invalid.</ErrorMessage>
    <ErrorCode>1031203110005</ErrorCode>
    <Success>true</Success>
    <Data>
        <HourSlaDetail>{"1":"03:58","2":"04:58","3":"05:58","4":"06:58","5":"07:58","6":"08:
58","7":"09:58","8":"10:58","9":"11:58","10":"12:58","11":"13:58","12":"14:58","13":"15:58",
"14":"16:58","15":"17:58","16":"18:58","17":"19:58","18":"20:58","19":"21:58","20":"22:58","
21":"23:58","22":"24:58","23":"25:58","24":"26:58"}</HourSlaDetail>
        <IsDefault>true</IsDefault>
        <Owner>9527952****</Owner>
        <ProjectId>1234</ProjectId>
        <Priority>1</Priority>
        <SlaMinu>30</SlaMinu>
        <SlaHour>9</SlaHour>
        <BaselineId>1234</BaselineId>
        <BaselineName>Baseline name</BaselineName>
        <HourExpDetail>{"1":"03:28","2":"04:28","3":"05:28","4":"06:28","5":"07:28","6":"08:
28","7":"09:28","8":"10:28","9":"11:28","10":"12:28","11":"13:28","12":"14:28","13":"15:28",
"14":"16:28","15":"17:28","16":"18:28","17":"19:28","18":"20:28","19":"21:28","20":"22:28","
21":"23:28","22":"24:28","23":"25:28","24":"26:28"}</HourExpDetail>
        <UseFlag>true</UseFlag>
        <ExpHour>7</ExpHour>
        <BaselineType>DAILY</BaselineType>
        <ExpMinu>30</ExpMinu>
    </Data>
</GetBaselineConfigResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 401,
  "RequestId" : "ecb967ec-c137-48a5-860****",
  "ErrorMessage" : "The specified parameters are invalid.",
  "ErrorCode" : 1031203110005,
  "Success" : true,
  "Data" : {
    "HourSlaDetail" : "{\"1\":\"03:58\",\"2\":\"04:58\",\"3\":\"05:58\",\"4\":\"06:58\",\"5\
":\"07:58\",\"6\":\"08:58\",\"7\":\"09:58\",\"8\":\"10:58\",\"9\":\"11:58\",\"10\":\"12:58\"
,\"11\":\"13:58\",\"12\":\"14:58\",\"13\":\"15:58\",\"14\":\"16:58\",\"15\":\"17:58\",\"16\"
:\"18:58\",\"17\":\"19:58\",\"18\":\"20:58\",\"19\":\"21:58\",\"20\":\"22:58\",\"21\":\"23:5
8\",\"22\":\"24:58\",\"23\":\"25:58\",\"24\":\"26:58\"}",
    "IsDefault" : true,
    "Owner" : "9527952****",
    "ProjectId" : 1234,
    "Priority" : 1,
    "SlaMinu" : 30,
    "SlaHour" : 9,
    "BaselineId" : 1234,
    "BaselineName" : "Baseline name",
    "HourExpDetail" : "{\"1\":\"03:28\",\"2\":\"04:28\",\"3\":\"05:28\",\"4\":\"06:28\",\"5\
":\"07:28\",\"6\":\"08:28\",\"7\":\"09:28\",\"8\":\"10:28\",\"9\":\"11:28\",\"10\":\"12:28\"
,\"11\":\"13:28\",\"12\":\"14:28\",\"13\":\"15:28\",\"14\":\"16:28\",\"15\":\"17:28\",\"16\"
:\"18:28\",\"17\":\"19:28\",\"18\":\"20:28\",\"19\":\"21:28\",\"20\":\"22:28\",\"21\":\"23:2
8\",\"22\":\"24:28\",\"23\":\"25:28\",\"24\":\"26:28\"}",
    "UseFlag" : true,
    "ExpHour" : 7,
    "BaselineType" : "DAILY",
    "ExpMinu" : 30
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	Forbidden.Wkbench.BaselineNoPermission	You are not authorized to access the baseline.	The error message returned because you are not authorized to access the specified baseline.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The error message returned because a service error has occurred.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	The error message returned because the values of one or more parameters are invalid.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been reached. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

7.3. ListNodesByBaseline

Queries nodes in a baseline.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListNodesByBaseline	The operation that you want to perform.
BaselineId	Long	Yes	1234	The ID of the baseline. You can call the GetNode operation to query the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Array of Data		The nodes in the baseline.
NodeId	Long	1234	The ID of the node.
NodeName	String	Node name	The name of the node.
Owner	String	9527952****	The ID of the Alibaba Cloud account used by the node owner.
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
ErrorCode	String	1031203110005	The error code returned.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-E****	The ID of the request. You can use the ID to troubleshoot issues.
Success	String	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListNodesByBaseline
&BaselineId=1234
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-E****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Owner>9527952****</Owner>
    <NodeName>Node name</NodeName>
    <ProjectId>1234</ProjectId>
    <NodeId>1234</NodeId>
</Data>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-E****",
    "HttpStatusCode": 200,
    "Data": {
        "Owner": "9527952****",
        "NodeName": "Node name"
        "ProjectId": 1234,
        "NodeId": 1234
    },
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	Forbidden.Wkbench.BaselineNoPermission	You are not authorized to access the baseline.	The error message returned because you have no permissions on the baseline.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	The error message returned because you have no permissions on the workspace.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The error message returned because an error has occurred on the service.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	The error message returned because the values specified for one or more parameters are invalid.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because the maximum number of times that you can use the resource has been reached. Submit a ticket for help.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.

Http status code	Error code	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Invalid.Wkbench.BaselineNotExist	The baseline does not exist.	The error message returned because the baseline does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.4. ListBaselineConfigs

Queries baselines.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListBaselineConfigs	The operation that you want to perform. Set the value to **ListBaselineConfigs**.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
PageNumber	Integer	Yes	1	The number of the page to return. Valid values: 1 to 30. Default value: 1.

Parameter	Type	Required	Example	Description
PageSize	Integer	Yes	10	The number of entries to return on each page. Valid values: 1 to 100. Default value: 10.
Owner	String	No	95279527****	The ID of the Alibaba Cloud account used by the baseline owner.
ProjectId	Long	Yes	1234	The ID of the workspace. You can call the ListProjects operation to query the ID.
Priority	String	No	1,3,5,7,8	The priority of the baseline. Valid values: 1, 3, 5, 7, and 8. Separate multiple priorities with commas (,).
Useflag	Boolean	No	true	Specifies whether to enable the baseline. Valid values: true and false.
BaselineTypes	String	No	DAILY,HOURLY	The type of the baseline. Valid values: DAILY and HOURLY. A value of DAILY indicates that the baseline is a day-level baseline. A value of HOURLY indicates that the baseline is an hour-level baseline. Separate multiple baseline types with commas (,).
SearchText	String	No	Keyword	The keyword in the baseline name used to search for the baseline.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request. You can troubleshoot issues based on the ID.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.

Parameter	Type	Example	Description
ErrorCode	String	1031203110005	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The return results of the request.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned on each page.
TotalCount	Integer	100	The total number of baselines returned.
Baselines	Array of Baselines		The list of baselines.
HourSlaDetail	String	null	The committed time of the hour-level baseline. This parameter is presented as key-value pairs in the JSON format. The key indicates the ID of the cycle, and the value is presented in the hh:mm format. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59.
IsDefault	Boolean	true	Indicates whether the baseline is a default baseline of the workspace. Valid values: true and false.
Owner	String	952795****	The ID of the Alibaba Cloud account used by the baseline owner. Multiple IDs are separated by commas (,).
ProjectId	Long	9527	The ID of the workspace to which the baseline belongs.
Priority	Integer	1	The priority of the baseline. Valid values: 1, 3, 5, 7, and 8.
SlaMinu	Integer	30	The minute in the alert time of the day-level baseline. Valid values: 0 to 59.

Parameter	Type	Example	Description
SlaHour	Integer	9	The hour in the committed time of the day-level baseline. Valid values: 0 to 47.
BaselineId	Long	1234	The ID of the baseline.
BaselineName	String	Baseline name	The name of the baseline.
HourExpDetail	String	null	The alert time of the hour-level baseline. This parameter is presented as key-value pairs in the JSON format. The key indicates the ID of the cycle, and the value is presented in the hh:mm format. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59.
UseFlag	Boolean	true	Indicates whether the baseline is enabled. Valid values: true and false.
ExpHour	Integer	7	The hour in the alert time of the day-level baseline. Valid values: 0 to 47.
BaselineType	String	DAILY	The type of the baseline. Valid values: DAILY and HOURLY. A value of DAILY indicates that the baseline is a day-level baseline. A value of HOURLY indicates that the baseline is an hour-level baseline.
ExpMinu	Integer	30	The minute in the alert time of the day-level baseline. Valid values: 0 to 59.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListBaselineConfigs
&PageNumber=1
&PageSize=10
&Owner=95279527****
&ProjectId=1234
&Priority=1,3,5,7,8
&Useflag=true
&BaselineTypes=DAILY,HOURLY
&SearchText=Keyword
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListBaselineConfigsResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorMessage>The specified parameters are invalid.</ErrorMessage>
    <ErrorCode>1031203110005</ErrorCode>
    <Success>true</Success>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <Baselines>
            <HourSlaDetail>{"1":"03:58","2":"04:58","3":"05:58","4":"06:58","5":"07:58","6":
"08:58","7":"09:58","8":"10:58","9":"11:58","10":"12:58","11":"13:58","12":"14:58","13":"15:
58","14":"16:58","15":"17:58","16":"18:58","17":"19:58","18":"20:58","19":"21:58","20":"22:5
8","21":"23:58","22":"24:58","23":"25:58","24":"26:58"}</HourSlaDetail>
            <IsDefault>true</IsDefault>
            <Owner>952795****</Owner>
            <ProjectId>9527</ProjectId>
            <Priority>1</Priority>
            <SlaMinu>30</SlaMinu>
            <SlaHour>9</SlaHour>
            <BaselineId>1234</BaselineId>
            <BaselineName>Baseline name</BaselineName>
            <HourExpDetail>{"1":"03:28","2":"04:28","3":"05:28","4":"06:28","5":"07:28","6":
"08:28","7":"09:28","8":"10:28","9":"11:28","10":"12:28","11":"13:28","12":"14:28","13":"15:
28","14":"16:28","15":"17:28","16":"18:28","17":"19:28","18":"20:28","19":"21:28","20":"22:2
8","21":"23:28","22":"24:28","23":"25:28","24":"26:28"}</HourExpDetail>
            <UseFlag>true</UseFlag>
            <ExpHour>7</ExpHour>
            <BaselineType>DAILY</BaselineType>
            <ExpMinu>30</ExpMinu>
        </Baselines>
    </Data>
</ListBaselineConfigsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorMessage" : "The specified parameters are invalid.",
  "ErrorCode" : 1031203110005,
  "Success" : true,
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "Baselines" : {
      "HourSlaDetail" : "{\"1\":\"03:58\",\"2\":\"04:58\",\"3\":\"05:58\",\"4\":\"06:58\",\"
5\":\"07:58\",\"6\":\"08:58\",\"7\":\"09:58\",\"8\":\"10:58\",\"9\":\"11:58\",\"10\":\"12:58
\",\"11\":\"13:58\",\"12\":\"14:58\",\"13\":\"15:58\",\"14\":\"16:58\",\"15\":\"17:58\",\"16
\":\"18:58\",\"17\":\"19:58\",\"18\":\"20:58\",\"19\":\"21:58\",\"20\":\"22:58\",\"21\":\"23
:58\",\"22\":\"24:58\",\"23\":\"25:58\",\"24\":\"26:58\"}",
      "IsDefault" : true,
      "Owner" : "952795****",
      "ProjectId" : 9527,
      "Priority" : 1,
      "SlaMinu" : 30,
      "SlaHour" : 9,
      "BaselineId" : 1234,
      "BaselineName": "Baseline name",
      "HourExpDetail" : "{\"1\":\"03:28\",\"2\":\"04:28\",\"3\":\"05:28\",\"4\":\"06:28\",\"
5\":\"07:28\",\"6\":\"08:28\",\"7\":\"09:28\",\"8\":\"10:28\",\"9\":\"11:28\",\"10\":\"12:28
\",\"11\":\"13:28\",\"12\":\"14:28\",\"13\":\"15:28\",\"14\":\"16:28\",\"15\":\"17:28\",\"16
\":\"18:28\",\"17\":\"19:28\",\"18\":\"20:28\",\"19\":\"21:28\",\"20\":\"22:28\",\"21\":\"23
:28\",\"22\":\"24:28\",\"23\":\"25:28\",\"24\":\"26:28\"}",
      "UseFlag" : true,
      "ExpHour" : 7,
      "BaselineType" : "DAILY",
      "ExpMinu" : 30
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

HTTP status code	Error code	Error message	Description
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been reached. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

For a list of error codes, visit the API Error Center.

7.5. GetBaselineKeyPath

Queries the key path of a baseline instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	GetBaselineKeyPath	The operation that you want to perform.
BaselineId	Long	Yes	1234	The ID of the baseline.
Bizdate	String	Yes	2020-07-07T00:00:00+0800	Business date in the yyyy-MM-dd'T'HH:mm:ssZ UTC format.
InGroupId	Integer	Yes	1	The cycle number of the baseline instance. The Tianji line is 1. The value range of the hour baseline is [1,24].
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.

Response parameters

Parameter	Type	Example	Description
Data	Array of Data		The critical path information.
Bizdate	Long	1553443200000	The date-based timestamp of the database instance.
InGroupId	Integer	1	The cycle number of the instance. Valid values: 1 to 288.
InstanceId	Long	12345	The ID of the instance that you want to modify.
NodeId	Long	1234	The ID of the node.
NodeName	String	The name of the node	The name of the node.
Owner	String	9527952****	The UID of the node owner.
PrgType	Integer	10	The type of the node. Common node types include data integration (23), MaxCompute SQL(10), Shell(6), and virtual node (99).

Parameter	Type	Example	Description
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
Runs	Array of Runs		The running records of the instance.
AbsTime	Long	1553531402000	The timestamp obtained by the estimated running time of the instance + average running time of the instance.
BeginCast	Long	1553531686000	The timestamp when the instance is expected to start running.
BeginRunningTime	Long	1553531401000	The timestamp when the instance starts to run.
BeginWaitResTime	Long	1553531401000	The timestamp when the instance enters the waiting for resources state.
BeginWaitTimeTime	Long	1553531400000	The timestamp when the instance enters the wait time state.
Bizdate	Long	1553443200000	The date-based timestamp of the database instance.
CycTime	Long	1553443200000	The timestamp of the instance.
EndCast	Long	1553531687000	The estimated end time of the instance.
FinishTime	Long	1553531401000	The end time of the operation performed on the instance.
InGroupId	Integer	1	The cycle number of the instance. Valid values: 1 to 288.
InstanceId	Long	1234	The ID of the instance that you want to modify.
NodeId	Long	1234	The ID of the node.

Parameter	Type	Example	Description
NodeName	String	The name of the node	The name of the node.
Owner	String	9527952****	The UID of the node owner.
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
Status	String	SUCCESS	The status of an instance, including NOT_RUN, WAIT_TIME, WAIT_RESOURCE, RUNNING, CHECKING, CHECKING_CONDITION, FAILURE, and SUCCESS.
Topics	Array of Topics		The event information associated with the instance.
AddTime	Long	1553531401000	The time when the event was discovered.
InstanceId	Long	1234	The ID of the instance that you want to modify.
TopicId	Long	1234	The ID of the event.
TopicName	Long	1234	The name of the event.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetBaselineKeyPath &BaselineId=1234 &Bizdate=2020-07-07T0
0:00:00+0800 &InGroupId=1 &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

XML format

```
<RequestId> 0000-abcd-EFG *** </RequestId> * <HttpStatusCode> 200 </HttpStatusCode> <Da
ta> <PrgType> 10 </PrgType> <Owner> 9527952 </Owner> * * <InstanceId> 1234 </InstanceId> <No
deName> node name </NodeName> <ProjectId> 1234 </ProjectId> <NodeId> 1234 </NodeId> <Bizdate
> 1553443200000 </Bizdate> <InGroupId> 1 </InGroupId> </Data> <Data> <Topics> <Status> SUCCE
SS </Status> <Owner> 9527952 **** </Owner> <InstanceId> 1234 </InstanceId> <NodeName> node n
ame </NodeName> <ProjectId> 1234 </ProjectId> <BeginWaitTimeTime> 1553531400000 </BeginWaitT
imeTime> <CycTime> 1553443200000 </CycTime> <BeginRunningTime> 1553531401000 </BeginRunningT
ime> <Bizdate> 1553443200000 </Bizdate> <InGroupId> 1 </InGroupId> <BeginCast> 1553531686000
</BeginCast> <AbsTime> 1553531402000 </AbsTime> <FinishTime> 1553531401000 </FinishTime> <No
deId> 9527 </NodeId> <BeginWaitResTime> 1553531401000 </BeginWaitResTime> <EndCast> 15535316
87000 </EndCast> </Topics> <Topics> <InstanceId> 1234 </InstanceId> <TopicId> 1234 </TopicId
> <AddTime> 1553531401000 </AddTime> <TopicName> 1234 </TopicName> </Topics> <Runs> <Status>
SUCCESS </Status> <Owner> 9527952****** </Owner> <InstanceId> 1234 </InstanceId> <NodeName>
node name </NodeName> <ProjectId> 1234 </ProjectId> <BeginWaitTimeTime> 1553531400000 </Begi
nWaitTimeTime> <CycTime> 1553443200000 </CycTime> <BeginRunningTime> 1553531401000 </BeginRu
nningTime> <Bizdate> 1553443200000 </Bizdate> <InGroupId> 1 </InGroupId> <BeginCast> 1553531
686000 </BeginCast> <AbsTime> 1553531402000 </AbsTime> <FinishTime> 1553531401000 </FinishTi
me> <NodeId> 1234 </NodeId> <BeginWaitResTime> 1553531401000 </BeginWaitResTime> <EndCast> 1
553531687000 </EndCast> </Runs> <Runs> <InstanceId> 1234 </InstanceId> <TopicId> 1234 </Topi
cId> <AddTime> 1553531401000 </AddTime> <TopicName> 1234 </TopicName> </Runs> </Data> <Error
Code> 1031203110005 </ErrorCode> <ErrorMessage> The specified parameters are invalid. </Erro
rMessage> <Success>true</Success>
```

JSON Format

```
{"RequestId": "0000-abcd-EFG cluster_id *", "HttpStatusCode": 200, "Data": [ { "PrgType
": 10, "Owner": "9527952 cluster_id *", "InstanceId": 1234," NodeName ": " node name ", " pr
ojectitid ": 1234," noid ": " de34" 1234, "Bizdate": 1523443200000, "InGroupId": 1 }, {"Topi
cs": [ { "Status": "SUCCESS", "Owner": "9527952 // nodes *", "InstanceId": 1234, "NodeName":
"node name", "ProjectId": 1234d, "BeginWaitTimeTime": 1553531400000, "CycTime": 155342000004
3, "BeginRunningTime": "": "1553531401000, " Bizdate ": 1523443200000," InGroupId ": 1, " Be
ginCast": 1553531686000, "AbsTime": 1553531402000, "FinishTime": 1553531401000, "NodeId": 95
27, "BeginWaitResTime": 1553531401000, "EndCast": 1553531687000 }, { "InstanceId": 1234, "To
picId": 1234, "AddTime": 1553531401000, "TopicName": 1234 } ], "Runs": [ { " Status ": " SUC
CESS ", " Owner ": " 9527952 **** ", " InstanceId ": 1234," NodeName ": " The node name, ""
projectid ": 1234," BeginWaitTimeTime ": 1553531400000," cyctime ": 1553443200000," BeginRun
ningTime ": 1553531401000," Bizdate ": 1553443200000," ingroupid ": 1." BeginCast ": 15535 3
16 86000, " parameter ": 1553531402000, "FinishTime": 1553531401000, "NodeId": 1234, "BeginW
aitResTime": 1553531401000, "EndCast": 1553531687000 }, { "InstanceId": 1234, "TopicId": 123
4, "AddTime": 1553531401000, "TopicName": 1234 } ] } ], "ErrorCode": 1031203110005, "ErrorMe
ssage":" The specified parameters are invalid.", "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Wkbench.BaselineNoPermission	You are not authorized to access the baseline.	No baseline permissions exist.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	You have no permission to use a workspace.
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The number of resources has reached the upper limit. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
500	Invalid.Wkbench.BaselineStatusNotExist	The BaselineStatus does not exist.	The specified baseline instance does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.6. GetBaselineStatus

Queries the details of a baseline instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetBaselineStatus	The operation that you want to perform.
BaselineId	Long	Yes	1234	The ID of the baseline.
Bizdate	String	Yes	2020-07-07T00:00:00+0800	Business date in the UTC format (yyyy-MM-dd'T'HH:mm:ssZ).
InGroupId	Integer	Yes	1	The cycle number of the baseline instance. The Tianji line is 1. The value range of the hour baseline is [1,24].
RegionId	String	Yes	cn-shanghai	The unique identifier of the zone.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the baseline instance.
BaselineId	Long	1234	The ID of the baseline.
BaselineName	String	Baseline check	The name of the baseline.
Bizdate	Long	1553443200000	The timestamp of the business date.
BlockInstance	Struct		The information about key instances.

Parameter	Type	Example	Description
EndCast	Long	1553443200000	The estimated completion timestamp of the instance.
FinishTime	Long	1553443200000	The actual completion timestamp of the instance.
InstanceId	Long	12345	The ID of the instance that you want to modify.
NodeId	Long	1234	The ID of the node.
NodeName	String	The name of the node	The name of the node.
Owner	String	9527952795****	The UID of the node owner.
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
Status	String	SUCCESS	The status of an instance, including NOT_RUN, WAIT_TIME, WAIT_RESOURCE, RUNNING, CHECKING, CHECKING_CONDITION, FAILURE, and SUCCESS.
Buffer	Float	1200	The buffer size of the baseline instance. Unit: seconds.
EndCast	Long	1553443200000	The time when the baseline instance was generated.
ExpTime	Long	1553443200000	The alert timestamp of the baseline instance.
FinishStatus	String	UNFINISH	Indicates whether the baseline instance is complete. Valid values: UNFINISH and FINISH.
FinishTime	Long	1553443200000	If the baseline instance completion status is FINISH, the timestamp at which the baseline instance is completed is returned.

Parameter	Type	Example	Description
InGroupId	Integer	1	The cycle number of the baseline instance. The Tianji line is 1. The value range of the hour baseline is [1,24].
LastInstance	Struct		The information of the latest instance.
EndCast	Long	1553443200000	The estimated completion timestamp of the instance.
FinishTime	Long	1553443200000	The actual completion timestamp of the instance.
InstanceId	Long	12345	The ID of the instance that you want to modify.
NodeId	Long	1234	The ID of the node.
NodeName	String	The name of the node	The name of the node.
Owner	String	9527952795****	The UID of the node owner.
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
Status	String	SUCCESS	The status of an instance, including NOT_RUN, WAIT_TIME, WAIT_RESOURCE, RUNNING, CHECKING, CHECKING_CONDITION, FAILURE, and SUCCESS.
Owner	String	9527952795****	The Alibaba Cloud UID of the owner of the baseline. Separate multiple responsible persons with commas (,).
Priority	Integer	1	The priority of the baseline. Valid values: 1,2,5,7, and 8.
ProjectId	Long	1234	The ID of the workspace to which the baseline belongs.

Parameter	Type	Example	Description
SlaTime	Long	1553443200000	The committed time of the baseline instance.
Status	String	SAFE	The status of the baseline. Valid values: ERROR, SAFE, dangrouus, and OVER.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetBaselineStatus &BaselineId=1234 &Bizdate=2020-07-07T00:00:00+0800 &InGroupId=1 &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-ABCD-EFG**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data
> <BaselineId> 1234 </BaselineId> <Buffer> 1200 </Buffer> <Status> SAFE </Status> <Owner> 95
27952795**** </Owner> <Priority> 1 </Priority> <FinishStatus> UNFINISH </FinishStatus> <Proj
ectId> 9527 </ProjectId> <Bizdate> 1553443200000 </Bizdate> <ExpTime> 1553443200000 </ExpTim
e> <InGroupId> 1 </InGroupId> <FinishTime> 1553443200000 </FinishTime> <BlockInstance> <Stat
us> SUCCESS </Status> <Owner> 9527952795**** </Owner> <FinishTime> 1553443200000 </FinishTim
e> <InstanceId> 12345 </InstanceId> <NodeName> node name </NodeName> <ProjectId> 1234 </Proj
ectId> <NodeId> 1234 </NodeId> <EndCast> 1553443200000 </EndCast> </BlockInstance> <Baseline
Name> Baseline name </BaselineName> <SlaTime> 1553443200000 </SlaTime> <EndCast> 15534432000
00 </EndCast> <LastInstance> <Status> SUCCESS </Status> <Owner> 9527952795 ><: </Owner> * <F
inishTime> 1553443200000 </FinishTime> <InstanceId> 12345 </InstanceId> <NodeName> node name
</NodeName> <ProjectId> 1234 </ProjectId> <NodeId> 1234 </NodeId> <EndCast> 1553443200000 </
EndCast> </LastInstance> </Data> <ErrorCode> 1031203110005 </ErrorCode> <ErrorMessage> The s
pecified parameters are invalid. </ErrorMessage> <Success>true</Success>
```

JSON Format

```
{"RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": { "BaselineId": 1234,
"Buffer": 1200, "Status": "SAFE", "Owner": "9527952795****", "Priority": 1, "FinishStatus":
"UNFINISH", "ProjectId": 9527, "Bizdate": 1553443200000," ExpTime ": //" InGroupId ": 1, " F
inishTime ": 1553443200000," BlockInstance ": { " Status ": " SUCCESS ", " Owner ": " 952795
2795 finishinstance * ", " finishinstance ": //" InstanceId ": 12345," nodenshname ": " proj
ectiame ", ": "projectiame", "D": "1234, " NodeId ": 1234, " EndCast ": 1553443200000} "base
linename": "Enter", "slatime": 1553443200000, "endcast": 1553443200000, "lastinstance": { "S
tatus": "SUCCESS", "Owner": "9527952795 ****", "finishtime": 1553443200000, "InstanceId": 12
345, "NodeName": "Node Name", "ProjectId": 1234, "NodeId": 1234, "EndCast": 1553443200000 }
}, "ErrorCode": 1031203110005, "ErrorMessage": "The specified parameters are invalid.", "Suc
cess": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.

HttpCode	Error codes	Error message	Description
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The number of resources has reached the upper limit. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.7. ListBaselineStatuses

Queries baseline instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListBaselineStatuses	The operation that you want to perform.
Bizdate	String	Yes	2020-07-07T00:00:00+0800	Business date in the UTC format (yyyy-MM-dd'T'HH:mm:ssZ).
PageNumber	Integer	Yes	1	The number of pages that are returned. The default value is 1, the minimum value is 1, and the maximum value is 30.

Parameter	Type	Required	Example	Description
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
RegionId	String	Yes	cn-shanghai	The unique identifier of the zone.
Priority	String	No	1,3,5,7,8	The priority of the baseline. Valid values: 1,3,5,7, and 8. Multiple priorities are separated by commas (,).
SearchText	String	No	The keyword for searching the baseline name.	The keyword used to search for the baseline name.
Owner	String	No	9527952795****	The Alibaba Cloud UID of the owner of the baseline.
TopicId	Long	No	1234	The ID of the event.
FinishStatus	String	No	FINISH,UNFINISH	Indicates whether the baseline instance is complete. Valid values: UNFINISH and FINISH. Separate multiple states by using commas (,).
Status	String	No	SAFE,DANGROUS, OVER	The status of the baseline. Valid values: ERROR, SAFE, dangrouus, and OVER. Separate multiple states by using commas (,).
BaselineTypes	String	No	DAILY,HOURLY	The type of the baseline. Valid values: DAILY and HOURLY. Separate multiple types with commas (,).

Response parameters

Parameter	Type	Example	Description
Data	Struct		The returned list of baseline instances.
BaselineStatuses	Array of BaselineStatuses		The list of baseline instances.

Parameter	Type	Example	Description
BaselineId	Long	1234	The ID of the baseline.
BaselineName	String	Baseline check	The name of the baseline.
Bizdate	Long	1553443200000	The timestamp of the business date.
Buffer	Long	1800	The buffer size of the baseline instance. Unit: seconds.
EndCast	Long	1553531400000	The expected completion time of the baseline instance.
ExpTime	Long	1553531400000	The alert time of the baseline instance. Valid values:
FinishStatus	String	UNFINISH	Indicates whether the baseline instance is complete. Valid values: UNFINISH and FINISH.
FinishTime	Long	1553531400000	If the baseline instance completion status is FINISH, the timestamp at which the baseline instance is completed is returned.
InGroupId	Integer	1	The cycle number of the baseline instance. The Tianji line is 1. The value range of the hour baseline is [1,24].
Owner	String	9527952795****	The Alibaba Cloud UID of the owner of the baseline. Separate multiple responsible persons with commas (,).
Priority	Integer	1	The priority of the baseline. Valid values: 1,2,5,7, and 8.
ProjectId	Long	1234	The ID of the workspace to which the baseline belongs.
SlaTime	Long	1553531400000	The actual time when the baseline instance was completed.

Parameter	Type	Example	Description
Status	String	SAFE	The status of the baseline. Valid values: ERROR, SAFE, dangrouus, and OVER.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The size of each page.
TotalCount	Integer	100	The total number of baseline instances.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=ListBaselineStatuses &Bizdate=2020-07-07T00:00:00+0800 &PageNumber=1 &PageSize=10 &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-ABCD-EFG**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data
> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <Bas
elineStatuses> <BaselineId> 1234 </BaselineId> <Buffer> 1800 </Buffer> <Status> SAFE </Statu
s> <Owner> 9527952795**** </Owner> <Priority> 1 </Priority> <FinishStatus> UNFINISH </Finish
Status> <ProjectId> 1234 </ProjectId> <Bizdate> 1553443200000 </Bizdate> <ExpTime> 155353140
0000 </ExpTime> <InGroupId> 1 </InGroupId> <FinishTime> 1553531400000 </FinishTime> <Baselin
eName> enter The </BaselineName> <SlaTime> 1553531400000 </SlaTime> <EndCast> 1553531400000
</EndCast> </BaselineStatuses> </Data> <ErrorCode> 1031203110005 </ErrorCode> <ErrorMessage>
The specified parameters are invalid. </ErrorMessage> <Success>true</Success>
```

JSON Format

```
{"RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": { "TotalCount": 100,
"PageSize": 10, "PageNumber": 1, "BaselineStatuses": { "BaselineId": 1234, "Buffer": 1800, "
Status": "SAFE", "Owner": "9527952795****", "Priority": 1, "FinishStatus": "UNFINISH", "Proj
ectId": 1234, "Bizdate": 15543443200000, "ExpTime": // "InGroupId": 1, "FinishTime": "baseli
ne name", "SlaTime": 1535351400000,endcast ": 1553531400000},}" ErrorCode ": " Invalid.Tenan
t.ConnectionNotExists ", " ErrorMessage ": "The specified parameters are invalid.", "Success
": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.

HttpCode	Error codes	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.8. DeleteRemind

Deletes a custom alert rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteRemind	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The unique identifier of the zone.
RemindId	Long	Yes	1234	The ID of the alert rule.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the deletion is successful. Valid values: true (indicating successful deletion) and false (indicating failed deletion).
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteRemind &RegionId=cn-shanghai&reindid=1234 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <ErrorCode>1031203110005</ErrorCode> <ErrorMessage>The specified parameters are invalid. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": true, "ErrorCode": 1031203110005, "ErrorMessage": "The specified parameters are invalid.", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.

HttpCode	Error codes	Error message	Description
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
500	Forbidden.Wkbench.RemindNoPermission	You are not authorized to modify the reminder.	You do not have the permission to modify the custom notification rule.
500	Invalid.Wkbench.RemindNotExist	The reminder does not exist.	The custom reminder rule does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.9. UpdateRemind

Modifies a custom alert rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateRemind	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The ID of the region in which you want to modify a custom alert rule. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Parameter	Type	Required	Example	Description
RemindId	Long	Yes	1234	The ID of the custom alert rule.
RemindName	String	No	update_remindname	The name of the custom alert rule. The name can be a maximum of 128 characters in length.
DndEnd	String	No	08:00	The end of the period during which no alert notifications are sent. Specify a value in the hh:mm format. Valid values of hh: 0 to 23. Valid values of mm: 0 to 59.
RemindUnit	String	No	NODE	The type of the object to be monitored. Valid values: • NODE: node. • BASELINE: baseline. • PROJECT: workspace. • BIZPROCESS: workflow.
NodeIds	String	No	1,2,3	The ID of the node to be monitored. An alert rule can monitor a maximum of 50 nodes. Separate multiple IDs with commas (,). This parameter is available if you set the RemindUnit parameter to NODE.
BaselineIds	String	No	1,2,3	The ID of the baseline to be monitored. An alert rule can monitor a maximum of five baselines. Separate multiple IDs with commas (,). This parameter is available if you set the RemindUnit parameter to BASELINE.
ProjectId	Long	No	1234	The ID of the workspace to be monitored. An alert rule can monitor only one workspace. This parameter is available if you set the RemindUnit parameter to PROJECT.

Parameter	Type	Required	Example	Description
BizProcessIds	String	No	1,2,3	The ID of the workflow to be monitored. An alert rule can monitor a maximum of five workflows. Separate multiple IDs with commas (,). This parameter is available if you set the RemindUnit parameter to BIZPROCESS.
RemindType	String	No	FINISHED	The condition that triggers the alert rule. Valid values: • FINISHED: The system monitors an instance when it starts to run and sends an alert notification after the running of the instance is complete. • UNFINISHED: The system monitors an instance when it starts to run and sends an alert notification if the instance is still running at the specified point in time. • ERROR: The system monitors an instance when it starts to run and sends an alert notification if an error occurs. • CYCLE_UNFINISHED: The system sends an alert notification if a monitored instance is still running at the end of the specified cycle. In most cases, you can configure this trigger condition for instances that are scheduled by hour. • TIMEOUT: The system monitors an instance when it starts to run and sends an alert notification if the instance is still running after the specified period ends. In most cases, you can configure this trigger condition to monitor the duration of instances. For more information, see Manage custom alert rules.
MaxAlertTimes	Integer	No	3	The maximum number of alert notifications that can be sent. Valid values: 1 to 10. Default value: 3.

Parameter	Type	Required	Example	Description
AlertInterval	Integer	No	1800	The intervals at which alert notifications are sent. Unit: seconds. Minimum value: 1200. Default value: 1800.

Parameter	Type	Required	Example	Description
Detail	String	No	null	The value format required by this parameter varies based on the value that you specify for the RemindType parameter. Take note of the following items: • If the RemindType parameter is set to FINISHED, leave this parameter empty. • If the RemindType parameter is set to UNFINISHED, set this parameter to key-value pairs. Example: {"hour":23,"minu":59}. Valid values of hour: 0 to 47. Valid values of minu: 0 to 59. • If the RemindType parameter is set to ERROR, leave this parameter empty. • If the RemindType parameter is set to CYCLE_UNFINISHED, set this parameter to key-value pairs in the JSON format. Example: {"1":"05:50","2":"06:50","3":"07:50","4":"08:50","5":"09:50","6":"10:50","7":"11:50","8":"12:50","9":"13:50","10":"14:50","11":"15:50","12":"16:50","13":"17:50","14":"18:50","15":"19:50","16":"20:50","17":"21:50","18":"22:50","19":"23:50","20":"24:50","21":"25:50"}. A key in the JSON string indicates the sequence number of a cycle. Valid values of keys: 1 to 288. A value in the JSON string indicates the time in point when a monitored instance times out in the relevant cycle. Values must be in the format of hh:mm. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59. • If the RemindType parameter is set to TIMEOUT, set this parameter to the timeout period. Unit: seconds. Example: 1800. This indicates that an alert notification is sent if the duration of a monitored instance exceeds 30 minutes.

Parameter	Type	Required	Example	Description
AlertUnit	String	No	OWNER	The recipient to whom alert notifications are sent. Valid values: OWNER and OTHER. A value of OWNER indicates that alert notifications are sent to the object owner. A value of OTHER indicates that alert notifications are sent to a specified user.
AlertMethods	String	No	SMS, MAIL	The notification method. Valid values: • MAIL: Alert notifications are sent by emails. • SMS: Alert notifications are sent by text messages. • PHONE: Alert notifications are sent by phone calls. You can use this notification method only in DataWorks Professional Edition or more advanced editions. • DINGROBOTS: Alert notifications are sent by DingTalk messages. You can use this notification method only if the RobotUrls parameter is set. You can specify multiple notification methods. Separate them with commas (,).
AlertTargets	String	No	95279527952795 27	The value format required by this parameter varies based on the value that you specify for the AlertUnit parameter. Take note of the following items: • If the AlertUnit parameter is set to OWNER, leave this parameter empty. • If the AlertUnit parameter is set to OTHER, set this parameter to the unique ID (UID) of the specified user. You can specify multiple IDs. Separate them with commas (,). You can specify a maximum of 10 IDs.

Parameter	Type	Required	Example	Description
UseFlag	Boolean	No	true	Specifies whether to enable the alert rule. Valid values: • true: enables the alert rule. • false: disables the alert rule.
RobotUrls	String	No	https://oapi.dingtalk.com/robot/send?access_token=********** ********	The webhook URL of the DingTalk chatbot. You can specify multiple webhook URLs. Separate them with commas (,). If this parameter is set to undefined, the specified webhook URLs are cleared.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the modification to the custom alert rule succeeds.
ErrorCode	String	1031203110005	The error code that is returned.
ErrorMessage	String	The specified parameters are invalid.	The error message that is returned.
HttpStatusCode	Integer	200	The HTTP status code that is returned.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateRemind
&RegionId=cn-shanghai
&RemindId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "HttpStatusCode": 200,
    "Data": true,
    "ErrorCode": 1031203110005,
    "ErrorMessage": "The specified parameters are invalid.",
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has reached the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has reached the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has reached the upper limit. Submit a ticket for help.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.

Http status code	Error code	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	Forbidden.Wkbench.BaselineNoPermission	You are not authorized to access the baseline.	The error message returned because you are not authorized to access the specified baseline.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	The error message returned because you are not authorized to access the specified workspace.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error occurred. Try again later.
500	Forbidden.Wkbench.RemindNoPermission	You are not authorized to modify the reminder.	The error message returned because you are not authorized to modify the custom alert rule.
500	Invalid.Wkbench.RemindNotExist	The reminder does not exist.	The error message returned because the specified custom alert rule does not exist.

For a list of error codes, visit the API Error Center.

7.10. CreateRemind

Creates a custom alert rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateRemind	The operation that you want to perform. Set the value to **CreateRemind**.
RegionId	String	Yes	cn-shanghai	The ID of the region.
RemindName	String	Yes	test_error_remind	The name of the custom alert rule. The name can be a maximum of 128 characters in length.
DndEnd	String	No	08:00	The end time of the quiet hours. Specify the time in the hh:mm format. Valid values of hh: 0 to 23. Valid values of mm: 0 to 59.
RemindUnit	String	Yes	NODE	The type of the object to which the custom alert rule is applied. Valid values: NODE, BASELINE, PROJECT, and BIZPROCESS. A value of NODE indicates a node. A value of BASELINE indicates a baseline. A value of PROJECT indicates a workspace. A value of BIZPROCESS indicates a workflow.
NodeIds	String	No	1,2,3	The ID of the node to which the custom alert rule is applied. This parameter takes effect if the RemindUnit parameter is set to NODE. You can specify multiple IDs. Separate the IDs with commas (,). A maximum of 50 nodes can be specified for a custom alert rule.
BaselineIds	String	No	1,2,3	The ID of the baseline to which the custom alert rule is applied. This parameter takes effect if the RemindUnit parameter is set to BASELINE. You can specify multiple IDs. Separate the IDs with commas (,). A maximum of five baselines can be specified for a custom alert rule.

Parameter	Type	Required	Example	Description
ProjectId	Long	No	9527	The ID of the workspace to which the custom alert rule is applied. This parameter takes effect if the RemindUnit parameter is set to PROJECT. Only one workspace can be specified for a custom alert rule.
BizProcessIds	String	No	1,2,3	The ID of the workflow to which the custom alert rule is applied. This parameter takes effect if the RemindUnit parameter is set to BIZPROCESS. You can specify multiple IDs. Separate the IDs with commas (,). A maximum of five workflows can be specified for a custom alert rule.
RemindType	String	Yes	FINISHED	The conditions that trigger an alert. Valid values: FINISHED, UNFINISHED, ERROR, CYCLE_UNFINISHED, and TIMEOUT. The value FINISHED indicates that the node is run. A value of UNFINISHED indicates that the node is still running at the specified point in time. A value of ERROR indicates that an error occurs when the node is running. A value of CYCLE_UNFINISHED indicates that the node is still running in the specified cycle. A value of TIMEOUT indicates that the node times out.
MaxAlertTimes	Integer	No	2	The maximum number of alerts. Valid values: 1 to 10. Default value: 3.
AlertInterval	Integer	No	1800	The minimum interval at which alerts are reported. Unit: seconds. Minimum value: 1200. Default value: 1800.

Parameter	Type	Required	Example	Description
Detail	String	No	null	The details of the conditions that trigger an alert. • If the RemindType parameter is set to FINISHED, leave this parameter empty. • If the RemindType parameter is set to UNFINISHED, specify this parameter as key-value pairs. Example: {"hour":23,"minu":59}. Valid values of hour: 0 to 47. Valid values of minu: 0 to 59. • If the RemindType parameter is set to ERROR, leave this parameter empty. • If the RemindType parameter is set to CYCLE_UNFINISHED, specify this parameter as key-value pairs. Example: {"1":"05:50","2":"06:50","3":"07:50","4":"08:50","5":"09:50","6":"10:50","7":"11:50","8":"12:50","9":"13:50","10":"14:50","11":"15:50","12":"16:50","13":"17:50","14":"18:50","15":"19:50","16":"20:50","17":"21:50","18":"22:50","19":"23:50","20":"24:50","21":"25:50"}. The key indicates the ID of the cycle. Valid values of the ID: 1 to 288. The value indicates the timeout period of the node that is running in the cycle. Specify the value in the hh:mm format. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59. • If the RemindType parameter is set to TIMEOUT, set this parameter to the timeout period. Unit: seconds. Example: 1800. This value indicates that an alert is reported if the node has run for more than 30 minutes.
AlertUnit	String	Yes	OWNER	The recipient of the alert. Valid values: OWNER and OTHER. A value of OWNER indicates the node owner. A value of OTHER indicates a specified user.

Parameter	Type	Required	Example	Description
AlertMethods	String	Yes	SMS,MAIL	The notification method. Valid values: • MAIL: Alert notifications are sent by emails. • SMS: Alert notifications are sent by text messages. Alert notifications can be sent by text messages only in the Singapore (Singapore), Malaysia (Kuala Lumpur), and Germany (Frankfurt) regions. If you want to use this notification method in other regions, submit a ticket for technical support from DataWorks. You can specify multiple notification methods. Separate the specified notification methods with commas (,).
AlertTargets	String	No	9527952795279527	• If the AlertUnit parameter is set to OWNER, leave this parameter empty. • If the AlertUnit parameter is set to OTHER, set this parameter to the ID of the Alibaba Cloud account used by a specified user. You can specify multiple IDs. Separate the IDs with commas (,). You can specify a maximum of 10 IDs.
RobotUrls	String	No	https://oapi.dingtalk.com/robot/send?access_token=********** ********	The webhook URL of the DingTalk chatbot. You can specify multiple webhook URLs. Separate the specified webhook URLs with commas (,).

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	Long	1234	The ID of the custom alert rule.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The unique ID of the request. You can troubleshoot errors based on the ID.
Success	Boolean	true	Indicates whether the request was successful.
ErrorCode	String	1031203110005	The error code returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateRemind
&RemindName=test_error_remind
&DndEnd=08:00
&RemindUnit=NODE
&NodeIds=1,2,3
&BaselineIds=1,2,3
&ProjectId=9527
&BizProcessIds=1,2,3
&RemindType=FINISHED
&MaxAlertTimes=2
&AlertInterval=1800
&Detail={"hour":23,"minu":59}
&AlertUnit=OWNER
&AlertMethods=SMS,MAIL
&AlertTargets=9527952795279527
&RobotUrls=https://oapi.dingtalk.com/robot/send?access_token=******************************
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateRemindResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>1234</Data>
    <ErrorMessage>The specified parameters are invalid.</ErrorMessage>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <Success>true</Success>
    <ErrorCode>1031203110005</ErrorCode>
</CreateRemindResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : 1234,
  "ErrorMessage" : "The specified parameters are invalid.",
  "RequestId" : "0000-ABCD-EFG****",
  "Success" : true,
  "ErrorCode" : 1031203110005
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	Forbidden.Wkbench.BaselineNoPermission	You are not authorized to access the baseline.	The error message returned because you are not authorized to access the specified baseline.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	The error message returned because you are not authorized to access the specified workspace.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	Forbidden.Wkbench.NoProject	You have not joined any project.	The error message returned because you have not joined a workspace.
500	Invalid.Wkbench.NodeNotExist	The node does not exist.	The error message returned because the specified node does not exist.
500	Invalid.Wkbench.BaselineNotExist	The baseline does not exist.	The error message returned because the specified baseline does not exist.

HTTP status code	Error code	Error message	Description
500	Forbidden.Wkbench.RemindOverlimit	The maximum number of reminders is exceeded.	The error message returned because the number of custom alert rules has reached the upper limit.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been reached. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

7.11. GetRemind

Queries the details of a custom alert rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetRemind	The operation that you want to perform. Set the value to **GetRemind**.
RegionId	String	Yes	cn-shanghai	The ID of the region.
RemindId	Long	Yes	1234	The ID of the custom alert rule.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFGH-IJKLMNOPQ	The unique ID of the request. You can troubleshoot issues based on the ID.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
ErrorCode	String	1031203110005	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The details of the custom alert rule.
MaxAlertTimes	Integer	3	The maximum number of alerts.
RemindUnit	String	NODE	The type of the object to which the custom alert rule is applied. Valid values: NODE, BASELINE, PROJECT, and BIZPROCESS. A value of NODE indicates that the monitored object is a node. A value of BASELINE indicates that the monitored object is a baseline. A value of PROJECT indicates that the monitored object is a workspace. A value of BIZPROCESS indicates that the monitored object is a workflow.
AlertInterval	Integer	1800	The minimum interval at which alerts are reported. Unit: seconds.

Parameter	Type	Example	Description
Useflag	Boolean	true	Indicates whether the custom alert rule is enabled. Valid values: true and false.
Founder	String	9527951795****	The ID of the Alibaba Cloud account used by the creator of the custom alert rule.
RemindId	Long	1234	The ID of the custom alert rule.
DndEnd	String	08:00	The end time of the quiet hours. The value is in the hh:mm format. Valid values of hh: 0 to 23. Valid values of mm: 0 to 59.
RemindType	String	FINISHED	The conditions that trigger an alert. Valid values: FINISHED, UNFINISHED, ERROR, CYCLE_UNFINISHED, and TIMEOUT. A value of FINISHED indicates that the node is run. A value of UNFINISHED indicates that the node is still running at the specified point in time. A value of ERROR indicates that an error occurs when the node is running. A value of CYCLE_UNFINISHED indicates that the node is still running in the specified cycle. A value of TIMEOUT indicates that the node times out.
AlertUnit	String	OWNER	The recipient of the alert. Valid values: OWNER and OTHER. A value of OWNER indicates the node owner. A value of OTHER indicates a specified user.
DndStart	String	00:00	The start time of the quiet hours. The value is in the hh:mm format. Valid values of hh: 0 to 23. Valid values of mm: 0 to 59.
RemindName	String	Rule name	The name of the custom alert rule.

Parameter	Type	Example	Description
Detail	String	null	• If the value of the RemindType parameter is FINISHED, this parameter is left empty. • If the value of the RemindType parameter is UNFINISHED, the trigger conditions are returned as key-value pairs. Example: {"hour":23,"minu":59}. Valid values of hour: 0 to 47. Valid values of minu: 0 to 59. • If the value of the RemindType parameter is ERROR, this parameter is left empty. • If the value of the RemindType parameter is CYCLE_UNFINISHED, the trigger conditions are returned as key-value pairs. Example: {"1":"05:50","2":"06:50","3":"07:50","4":"08:50","5":"09:50","6":"10:50","7":"11:50","8":"12:50","9":"13:50","10":"14:50","11":"15:50","12":"16:50","13":"17:50","14":"18:50","15":"19:50","16":"20:50","17":"21:50","18":"22:50","19":"23:50","20":"24:50","21":"25:50"}. The key indicates the ID of the cycle. Valid values: 1 to 288. The value indicates the timeout period of the node that is run in the cycle. The value is in the hh:mm format. Valid values of hh: 0 to 47. Valid values of mm: 0 to 59. • If the value of the RemindType parameter is TIMEOUT, the timeout period is returned. Unit: seconds. Example: 1800. This value indicates that an alert is reported if the node is run for more than 30 minutes.
Robots	Array of Robots		The webhook URLs of the DingTalk chatbots.
WebUrl	String	https://oapi.dingtalk.com/robot/send?access_token=************	The webhook URL of the DingTalk chatbot.
AtAll	Boolean	true	Indicates whether all group members are notified when the alert notification is sent to a DingTalk group. Valid values: true and false.
Nodes	Array of Nodes		The nodes to which the custom alert rule is applied. This parameter is returned if the value of the RemindUnit parameter is NODE.

Parameter	Type	Example	Description
Owner	String	9527951795****	The ID of the Alibaba Cloud account used by the owner of the node.
NodeName	String	Node name	The name of the node.
NodeId	Long	1234	The ID of the node.
ProjectId	Long	1234	The ID of the workspace to which the node belongs.
Baselines	Array of Baselines		The baselines to which the custom alert rule is applied. This parameter is returned if the value of the RemindUnit parameter is BASELINE.
BaselineName	String	Baseline name	The name of the baseline.
BaselineId	Long	1234	The ID of the baseline.
Projects	Array of Projects		The workspaces to which the custom alert rule is applied. This parameter is returned if the value of the RemindUnit parameter is PROJECT.
ProjectId	Long	1234	The ID of the workspace.
BizProcesses	Array of BizProcesses		The workflows to which the custom alert rule is applied. This parameter is returned if the value of the RemindUnit parameter is BIZPROCESS.
BizProcessName	String	Workflow name	The name of the workflow.
BizId	Long	9527	The ID of the workflow.

Parameter	Type	Example	Description
AlertTargets	Array of String	9527952795279527	• If the value of the AlertUnit parameter is OWNER, this parameter is left empty. • If the value of the AlertUnit parameter is OTHER, the ID of the Alibaba Cloud account used by the specified user is returned. Multiple IDs are separated by commas (,).
AlertMethods	Array of String	SMS,MAIL	The notification method. Valid values: • MAIL: Alert notifications are sent by emails. • SMS: Alert notifications are sent by text messages. Alert notifications can be sent by text messages only in the Singapore (Singapore), Malaysia (Kuala Lumpur), and Germany (Frankfurt) regions. If you want to use this notification method in other regions, submit a ticket for technical support from DataWorks. • Multiple notification methods are separated by commas (,).

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetRemind
&RegionId=cn-shanghai
&RemindId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <AlertInterval>1800</AlertInterval>
    <DndStart>00:00</DndStart>
    <BizProcesses>
        <AtAll>true</AtAll>
        <WebUrl>https://oapi.dingtalk.com/robot/send?access_token=**************************
****</WebUrl>
    </BizProcesses>
    <BizProcesses>
```

```
        <Owner>9527951795****</Owner>
        <NodeName>Node name</NodeName>
        <NodeId>1234</NodeId>
        <ProjectId>1234</ProjectId>
    </BizProcesses>
    <BizProcesses>
        <BaselineId>1234</BaselineId>
        <BaselineName>Baseline name</BaselineName>
    </BizProcesses>
    <BizProcesses>
        <ProjectId>1234</ProjectId>
    </BizProcesses>
    <BizProcesses>
        <BizProcessName>Workflow name</BizProcessName>
        <BizId>1234</BizId>
    </BizProcesses>
    <DndEnd>08:00</DndEnd>
    <AlertUnit>OWNER</AlertUnit>
    <AlertMethods>SMS,MAIL</AlertMethods>
    <Projects>
        <AtAll>true</AtAll>
        <WebUrl>https://oapi.dingtalk.com/robot/send?access_token=**************************
****</WebUrl>
    </Projects>
    <Projects>
        <Owner>9527951795****</Owner>
        <NodeName>Node name</NodeName>
        <NodeId>1234</NodeId>
        <ProjectId>1234</ProjectId>
    </Projects>
    <Projects>
        <BaselineId>1234</BaselineId>
        <BaselineName>Baseline name</BaselineName>
    </Projects>
    <Projects>
        <ProjectId>1234</ProjectId>
    </Projects>
    <Projects>
        <BizProcessName>Workflow name</BizProcessName>
        <BizId>1234</BizId>
    </Projects>
    <RemindType>FINISHED</RemindType>
    <Founder>9527951795****</Founder>
    <Nodes>
        <AtAll>true</AtAll>
        <WebUrl>https://oapi.dingtalk.com/robot/send?access_token=**************************
****</WebUrl>
    </Nodes>
    <Nodes>
        <Owner>9527951795****</Owner>
        <NodeName>Node name</NodeName>
        <NodeId>1234</NodeId>
        <ProjectId>1234</ProjectId>
    </Nodes>
    <Nodes>
```

```
        <BaselineId>1234</BaselineId>
        <BaselineName>Baseline name</BaselineName>
    </Nodes>
    <Nodes>
        <ProjectId>1234</ProjectId>
    </Nodes>
    <Nodes>
        <BizProcessName>Workflow name</BizProcessName>
        <BizId>1234</BizId>
    </Nodes>
    <Baselines>
        <AtAll>true</AtAll>
        <WebUrl>https://oapi.dingtalk.com/robot/send?access_token=**************************
****</WebUrl>
    </Baselines>
    <Baselines>
        <Owner>9527951795****</Owner>
        <NodeName>Node name</NodeName>
        <NodeId>1234</NodeId>
        <ProjectId>1234</ProjectId>
    </Baselines>
    <Baselines>
        <BaselineId>1234</BaselineId>
        <BaselineName>Baseline name</BaselineName>
    </Baselines>
    <Baselines>
        <ProjectId>1234</ProjectId>
    </Baselines>
    <Baselines>
        <BizProcessName>Workflow name</BizProcessName>
        <BizId>1234</BizId>
    </Baselines>
    <RemindId>1234</RemindId>
    <RemindUnit>NODE</RemindUnit>
    <AlertTargets>9527952795279528</AlertTargets>
    <Useflag>true</Useflag>
    <Detail>{"hour":23,"minu":59}</Detail>
    <Robots>
        <AtAll>true</AtAll>
        <WebUrl>https://oapi.dingtalk.com/robot/send?access_token=**************************
****</WebUrl>
    </Robots>
    <Robots>
        <Owner>9527951795****</Owner>
        <NodeName>Node name</NodeName>
        <NodeId>1234</NodeId>
        <ProjectId>1234</ProjectId>
    </Robots>
    <Robots>
        <BaselineId>1234</BaselineId>
        <BaselineName>Baseline name</BaselineName>
    </Robots>
    <Robots>
        <ProjectId>1234</ProjectId>
```

```
    </Robots>
    <Robots>
        <BizProcessName>Workflow name</BizProcessName>
        <BizId>1234</BizId>
    </Robots>
    <RemindName>Rule name</RemindName>
    <MaxAlertTimes>3</MaxAlertTimes>
</Data>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG****",
  "HttpStatusCode" : 200,
  "Data" : {
    "AlertInterval" : 1800,
    "DndStart" : "00:00",
    "BizProcesses" : [ {
      "AtAll" : true,
      "WebUrl" : "https://oapi.dingtalk.com/robot/send?access_token=************************
******"
    }, {
      "Owner" : "9527951795****",
      "NodeName": "Node name",
      "NodeId" : 1234,
      "ProjectId" : 1234
    }, {
      "BaselineId" : 1234,
      "BaselineName": "Baseline name"
    }, {
      "ProjectId" : 1234
    }, {
      "BizProcessName": "Workflow name",
      "BizId" : 1234
    } ],
    "DndEnd" : "08:00",
    "AlertUnit" : "OWNER",
    "AlertMethods" : "SMS,MAIL",
    "Projects" : [ {
      "AtAll" : true,
      "WebUrl" : "https://oapi.dingtalk.com/robot/send?access_token=************************
******"
    }, {
      "Owner" : "9527951795****",
      "NodeName": "Node name",
      "NodeId" : 1234,
      "ProjectId" : 1234
    }, {
      "BaselineId" : 1234,
```

```
      "BaselineName": "Baseline name"
    }, {
      "ProjectId" : 1234
    }, {
      "BizProcessName": "Workflow name",
      "BizId" : 1234
    } ],
    "RemindType" : "FINISHED",
    "Founder" : "9527951795****",
    "Nodes" : [ {
      "AtAll" : true,
      "WebUrl" : "https://oapi.dingtalk.com/robot/send?access_token=************************
******"
    }, {
      "Owner" : "9527951795****",
      "NodeName": "Node name",
      "NodeId" : 1234,
      "ProjectId" : 1234
    }, {
      "BaselineId" : 1234,
      "BaselineName": "Baseline name"
    }, {
      "ProjectId" : 1234
    }, {
      "BizProcessName": "Workflow name",
      "BizId" : 1234
    } ],
    "Baselines" : [ {
      "AtAll" : true,
      "WebUrl" : "https://oapi.dingtalk.com/robot/send?access_token=************************
******"
    }, {
      "Owner" : "9527951795****",
      "NodeName": "Node name",
      "NodeId" : 1234,
      "ProjectId" : 1234
    }, {
      "BaselineId" : 1234,
      "BaselineName": "Baseline name"
    }, {
      "ProjectId" : 1234
    }, {
      "BizProcessName": "Workflow name",
      "BizId" : 1234
    } ],
    "RemindId" : 1234,
    "RemindUnit" : "NODE",
    "AlertTargets" : 9527952795279528,
    "Useflag" : true,
    "Detail" : "{\"hour\":23,\"minu\":59}",
    "Robots" : [ {
      "AtAll" : true,
      "WebUrl" : "https://oapi.dingtalk.com/robot/send?access_token=************************
******"
    }, {
```

```
      "Owner" : "9527951795****",
      "NodeName": "Node name",
      "NodeId" : 1234,
      "ProjectId" : 1234
    }, {
      "BaselineId" : 1234,
      "BaselineName": "Baseline name"
    }, {
      "ProjectId" : 1234
    }, {
      "BizProcessName": "Workflow name",
      "BizId" : 1234
    } ],
    "RemindName": "Rule name",
    "MaxAlertTimes" : 3
  },
  "ErrorCode" : 1031203110005,
  "ErrorMessage" : "The specified parameters are invalid.",
  "Success" : true
}
```


Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.

HTTP status code	Error code	Error message	Description
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been reached. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

7.12. ListReminds

Queries custom alert rules.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListReminds	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of pages that are returned. The default value is 1, the minimum value is 1, and the maximum value is 30.

Parameter	Type	Required	Example	Description
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
RegionId	String	Yes	cn-shanghai	The unique identifier of the zone.
Founder	String	No	9527952795****	The Alibaba Cloud UID of the project creator.
NodeId	Long	No	1234	The object of the rule. You can search for custom monitoring rules that override the task node by node ID.
RemindTypes	String	No	FINISHED,ERROR	The trigger condition, including FINISHED, UNFINISHED, ERROR, CYCLE_UNFINISHED, and TIMEOUT. Separate multiple trigger conditions with commas (,).
AlertTarget	String	No	9527952795****	The Alibaba Cloud UID of the alert recipient.
SearchText	String	No	Fuzzy match rule name	The name of the search rule.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The list of returned custom monitoring rules.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The size of each page.
Reminds	Array of Reminds		The list of custom monitoring rules.

Parameter	Type	Example	Description
AlertMethods	List	SMS	The alert method. Valid values: MAIL, SMS, and PHONE. PHONE number: DataWorks Professional Edition and later.
AlertTargets	List	952795****	The Alibaba Cloud UID list of the alert recipient.
AlertUnit	String	OWNER	The granularity of the object that is used to receive alerts. Valid values: OWNER and OTHER.
BaselineIds	List	9527	The ID of the BASELINE to monitor when the value of the credunit parameter is BASELINE.
BizProcessIds	List	9527	The ID of the baseline to be monitored when the value of workflow is BIZPROCESS.
DndEnd	String	08:00	The skip end time. The time is in the hh:mm format. The value range of hh is [0,23]. The value range of mm is [0,59].
DndStart	String	00:00	The start time for the default disturb mode. The format is hh:mm. The value range of hh is [0,23]. The value range of mm is [0,59].
Founder	String	952795****	The Alibaba Cloud UID of the rule creator.
NodeIds	List	1234	The IDs of the nodes to be monitored. This parameter is required when the primary_id_type parameter is set to NODE.
ProjectIds	List	1234	The IDs of the nodes to be monitored when the value of represent is PROJECT.
RemindId	Long	1234	The ID of the custom monitoring rule.
RemindName	String	Rule Name	The name of the custom monitoring rule.

Parameter	Type	Example	Description
RemindType	String	FINISHED	The trigger condition, including FINISHED, UNFINISHED, ERROR, CYCLE_UNFINISHED, and TIMEOUT.
RemindUnit	String	NODE	The type of the object. Valid values: NODE, BASELINE, PROJECT, and workflow.
Useflag	Boolean	true	Indicates whether the rule is enabled. Valid values: true and false.
TotalCount	Integer	100	The total number of custom monitoring rules.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=listelements&PageNumber=1 &PageSize=10 &RegionId=cn-shang
hai &<common request parameters>
```

Sample success responses

`XML` format

```
    <RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data
> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <Rem
inds> <RemindId> 1234 </RemindId> <DndStart> 00:00 </DndStart> <DndEnd> 08:00 </DndEnd> <Ale
rtUnit> OWNER </AlertUnit> <RemindUnit> NODE </RemindUnit> <RemindType> FINISHED </RemindTyp
e> <Useflag> true </Useflag> <Founder> 952795 **** </Founder> <RemindName> rule name </Remin
dName> </Reminds> <Reminds> <BizProcessIds> 1234 </BizProcessIds> <NodeIds> 1234 </NodeIds>
<AlertMethods> SMS </AlertMethods> <ProjectIds> 1234 </ProjectIds> <BaselineIds> 1234 </Base
lineIds> <AlertTargets> 952795**** </AlertTargets> </Reminds> </Data> <ErrorCode> 1031203110
005 </ErrorCode> <ErrorMessage> The specified parameters are invalid. </ErrorMessage> <Succe
ss>true</Success>
```

JSON Format

```
    {"RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": { "TotalCount": 100,
"PageSize": 10, "PageNumber": 1, "Reminds": [ { "RemindId": 1234, "DndStart": "00:00", "DndE
nd": "08:00", "AlertUnit": "OWNER"," Memordunit ": " NODE ", " memordtype ": " FINISHED ", "
Useflag ": true, " Founder ": " 952795 ${{* ", " memordname ": " Rule name "}, { " BizProces
sIds ": 1234, " NodeIds ": 1234," alalertmethod ": SMS", "ProjectIds": 1234, "BaselineIds":
1234, "AlertTargets": "952795****" } ] }, "ErrorCode": 1031203110005, "ErrorMessage": "The s
pecified parameters are invalid.", "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.

HttpCode	Error codes	Error message	Description
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The number of resources has reached the upper limit. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.13. ListTopics

Queries events.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTopics	The operation that you want to perform.
BeginTime	String	Yes	2019-03-24T00:00:00+0800	The beginning of the time range to query. The time must be in UTC. The format is yyyy-MM-dd'T'HH:mm:ssZ.
EndTime	String	Yes	2019-03-25T23:00:00+0800	The end of the time range to query. The end time must be in UTC format (yyyy-MM-dd'T'HH:mm:ssZ).
PageNumber	Integer	Yes	1	The number of pages that are returned. The default value is 1, the minimum value is 1, and the maximum value is 30.

Parameter	Type	Required	Example	Description
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
RegionId	String	Yes	cn-shanghai	The unique identifier of the zone.
TopicTypes	String	No	ERROR,SLOW	The type of the event. Valid values: SLOW and ERROR. Separate multiple event types with commas (,).
TopicStatuses	String	No	IGNORE,NEW,FIXING,RECOVER	The status of the event, including IGNORE, NEW, FIXING, and RECOVER. Separate multiple event states with commas (,).
NodeId	Long	No	1234	The node ID associated with the event. The IDs of InstanceId and InstanceId are mutually exclusive.
InstanceId	Long	No	12345	The instance ID associated with the event. The IDs of NodeId and NodeId are mutually exclusive.
Owner	String	No	952795****	The Alibaba Cloud UID of the event owner.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The returned event list.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The size of each page.
Topics	Array of Topics		The list of events.
AddTime	Long	1553524393000	The timestamp when the event was found.

Parameter	Type	Example	Description
FixTime	Long	1553508465000	The timestamp when the event was resumed.
HappenTime	Long	1553508465000	The time when the event is detected.
InstanceId	Long	12345	The instance ID associated with the event.
NodeId	Long	1234	The ID of the node associated with the event.
NodeName	String	The name of the node	The name of the node.
NodeOwner	String	952795****	The Alibaba Cloud UID of the owner of the node.
ProjectId	Long	1234	The ID of the workspace to which the task node belongs.
TopicId	Long	1234	The ID of the event.
TopicName	String	1234 error	The name of the event.
TopicStatus	String	NEW	The status of the event, including IGNORE, NEW, FIXING, and RECOVER.
TopicType	String	ERROR	The type of the event. Valid values: SLOW and ERROR.
TotalCount	Integer	100	The total number of events.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListTopics &BeginTime=2019-03-24T00:00:00+0800 &EndTime=2019-03-25T23:00:00+0800 &PageNumber=1 &PageSize=10 &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <TotalCount> 100 </TotalCount> <Topics> <TopicType> ERROR </TopicType> <FixTime> 1553508465000 </FixTime> <NodeOwner> 952795**** </NodeOwner> <InstanceId> 12345 </InstanceId> <NodeName> node name </NodeName> <NodeId> 1234 </NodeId> <ProjectId> 1234 </ProjectId> <TopicId> 1234 </TopicId> <TopicStatus> NEW </TopicStatus> <AddTime> 1553524393000 </AddTime> <HappenTime> 1553508465000 </HappenTime> <TopicName> 1234 error </TopicName> </Topics> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> </Data> <ErrorCode> 1031203110005 </ErrorCode> <ErrorMessage> The specified parameters are invalid. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{"RequestId": "0000-abcd-EFG ${*", "HttpStatusCode": 200, "Data": { "TotalCount": 100, "Topics": { "TopicType": "ERROR", "FixTime": 1553508500046, "NodeOwner": "952795 {{ERROR", " instance"," InstanceId ": " 12345, "NodeName": "node name", "NodeId": 1234, " ProjectId ": 1234, " TopicId ": 1234, " TopicStatus ": " NEW ", " AddTime ": 15535 24393000, " heaptime ": " TopicName ": " 1234 error " }, " PageSize ": 10120," PageNumber": 1 }, "ErrorCode": 103110005rmessage ": " "The specified parameters are invalid.", " Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The number of resources has reached the upper limit. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.14. GetTopic

Queries the details of an event.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	GetTopic	The operation that you want to perform. Set the value to **GetTopic**.
RegionId	String	Yes	cn-shanghai	The region ID.
TopicId	Long	Yes	1234	The ID of the event. You can call the listTopics operation to query the event ID.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	0000-ABCD-EFGH-IJKLMNOPQ	The ID of the request. You can troubleshoot issues based on the ID.
ErrorMessage	String	The specified parameters are invalid.	The error message returned.
ErrorCode	String	1031203110005	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The details of the event.
Owner	String	952795****	The ID of the Apsara Stack tenant account used by the event owner.
TopicName	String	1234 error	The name of the event.

Parameter	Type	Example	Description
BaselineStatus	String	SAFE	The status of the baseline. Valid values: ERROR, SAFE, DANGROUS, and OVER. A value of ERROR indicates that no nodes are associated with the baseline, or all nodes associated with the baseline are suspended. A value of SAFE indicates that nodes are run before the alert duration begins. A value of DANGROUS indicates that nodes are still running after the alert duration ends but the committed time does not arrive. A value of OVER indicates that nodes are still running after the committed time.
ProjectId	Long	1234	The ID of the workspace to which the node that triggered the event belongs.
NextAlertTime	Long	1553524393000	The timestamp when the system reports the next alert.
InstanceId	Long	12345	The ID of the instance that triggered the event.
FixTime	Long	1553524393000	The timestamp when the event was processed.
BaselineInGroupId	Integer	1	The ID of the cycle of the worst baseline instance.
BaselineBuffer	Long	3600	The margin of the worst baseline instance. Unit: seconds.
TopicType	String	ERROR	The type of the event. Valid values: SLOW and ERROR. A value of SLOW indicates that the duration of the task is significantly longer than the average duration of the task in previous cycles. A value of ERROR indicates that the task fails to run.

Parameter	Type	Example	Description
TopicStatus	String	FIXING	The status of the event. Valid values: IGNORE, NEW, FIXING, and RECOVER. A value of IGNORE indicates that the event is ignored. A value of NEW indicates that the event is a new event. A value of FIXING indicates that the event is being processed. A value of RECOVER indicates that the event is processed.
HappenTime	Long	1553524393000	The timestamp when the system event occurred. A time difference may exist between the time when the event occurred and the time when the event was found.
DealTime	Long	1553524393000	The timestamp when the event was last processed.
DealUser	String	952795****	The ID of the Apsara Stack tenant account used by the user who last processed the event.
BaselineName	String	Baseline name	The name of the baseline to which the worst baseline instance belongs.
BaselineId	Long	1234	The ID of the baseline to which the worst baseline instance belongs.
NodeName	String	Node name	The name of the node that triggered the event.
AlertTime	Long	1553524393000	The timestamp when the first alert was reported.
Buffer	Long	1200	The margin of the event. Unit: seconds.
Assigner	String	952795****	The ID of the Apsara Stack tenant account used by the alert recipient.
TopicId	Long	1234	The ID of the event.
AddTime	Long	1553524393000	The timestamp when the event was found.

Parameter	Type	Example	Description
NodeId	Long	1234	The ID of the node that triggered the event.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetTopic
&RegionId=cn-shanghai
&TopicId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<RequestId>0000-ABCD-EFG****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <BaselineId>1234</BaselineId>
    <Buffer>1200</Buffer>
    <FixTime>1553524393000</FixTime>
    <Owner>952795****</Owner>
    <InstanceId>12345</InstanceId>
    <NodeName>Node name</NodeName>
    <BaselineStatus>SAFE</BaselineStatus>
    <ProjectId>1234</ProjectId>
    <TopicStatus>FIXING</TopicStatus>
    <AddTime>1553524393000</AddTime>
    <HappenTime>1553524393000</HappenTime>
    <AlertTime>1553524393000</AlertTime>
    <BaselineInGroupId>1</BaselineInGroupId>
    <TopicName>1234 error</TopicName>
    <TopicType>ERROR</TopicType>
    <Assigner>9527952795279528</Assigner>
    <DealUser>9527952795279528</DealUser>
    <NextAlertTime>1553524393000</NextAlertTime>
    <BaselineName>Baseline name</BaselineName>
    <NodeId>1234</NodeId>
    <TopicId>1234</TopicId>
    <BaselineBuffer>3600</BaselineBuffer>
    <DealTime>1553524393000</DealTime>
</Data>
<ErrorCode>1031203110005</ErrorCode>
<ErrorMessage>The specified parameters are invalid.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG****",
  "HttpStatusCode" : 200,
  "Data" : {
    "BaselineId" : 1234,
    "Buffer" : 1200,
    "FixTime" : 1553524393000,
    "Owner" : "952795****",
    "InstanceId" : 12345,
    "NodeName": "Node name",
    "BaselineStatus" : "SAFE",
    "ProjectId" : 1234,
    "TopicStatus" : "FIXING",
    "AddTime" : 1553524393000,
    "HappenTime" : 1553524393000,
    "AlertTime" : 1553524393000,
    "BaselineInGroupId" : 1,
    "TopicName": "1234 error",
    "TopicType" : "ERROR",
    "Assigner" : 9527952795279528,
    "DealUser" : 9527952795279528,
    "NextAlertTime" : 1553524393000,
    "BaselineName": "Baseline name",
    "NodeId" : 1234,
    "TopicId" : 1234,
    "BaselineBuffer" : 3600,
    "DealTime" : 1553524393000
  },
  "ErrorCode" : 1031203110005,
  "ErrorMessage" : "The specified parameters are invalid.",
  "Success" : true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because DataWorks API is unavailable in this region. Try another region.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	The error message returned because the format of the specified parameter is invalid.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The error message returned because a service error has occurred.
500	Invalid.Wkbench.TopicNotExist	The topic does not exist.	The error message returned because the event does not exist.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been used up. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

7.15. GetTopicInfluence

Queries affected baseline instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	GetTopicInfluence	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The unique identifier of the zone.
TopicId	Long	Yes	1234	The ID of the event.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The list of baseline instances affected by the event.
Influences	Array of Influences		The list of affected baseline instances.
BaselineId	Long	1234	The ID of the baseline.
BaselineName	String	Baseline check	The name of the baseline.
Bizdate	Long	1553356800000	The timestamp of the business date on the baseline instance.
Buffer	Long	360	The buffer size of the baseline instance. Unit: seconds.
InGroupId	Integer	1	The cycle number of the baseline instance. The Tianji line is 1. The value range of the hour baseline is [1,24].
Owner	String	952795****	The Alibaba Cloud UID of the owner of the baseline. Separate multiple responsible persons with commas (,).
Priority	Integer	1	The priority of the baseline. Valid values: 1,2,5,7, and 8.

Parameter	Type	Example	Description
ProjectId	Long	1234	The ID of the workspace to which the baseline belongs.
Status	String	SAFE	The status of the baseline. Valid values: ERROR, SAFE, dangrouus, and OVER.
TopicId	Long	1234	The ID of the event.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the call. You can use the error ID to troubleshoot the error.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetTopicInfluence &RegionId=cn-shanghai &TopicId=1234 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <Influences> <BaselineId> 1234 </BaselineId> <Status> SAFE </Status> <Buffer> 360 </Buffer> <Owner> 952795**** </Owner> <Priority> 1 </Priority> <BaselineName> baseline name </BaselineName> <ProjectId> 1234 </ProjectId> <Bizdate> 1553356800000 </Bizdate> <InGroupId> 1 </InGroupId> </Influences> <TopicId> 1234 </TopicId> </Data> <ErrorCode> 1031203110005 </ErrorCode> <ErrorMessage> The specified parameters are invalid. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
{"RequestId": "0000-abcd-EFG %}*", "HttpStatusCode": 200, "Data": { "Influences": { "BaselineId": 1234, "Status": "SAFE", "Buffer": 360, "Owner": "952795 ${{*", "Priority": 1, 1, "BaselineName": "baseline name", "ProjectId": 1234, " Bizdate": 1553356800000, "InGroupId": 1 }, "TopicId": 1234 }, "ErrorCode": 1031203110005, "ErrorMessage": "The specified parameters are invalid.", "Success": true}
```


Error codes

HttpCode	Error codes	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	DataWorks API service is not available in this region. Please try another region.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.Wkbench.ServiceError	An internal error occurred.	The service was open.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	One or more parameters are invalid.
500	Invalid.Wkbench.TopicNotExist	The topic does not exist.	The event does not exist.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The request for the resource has exceeded your daily availability limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The number of resources has reached the upper limit. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

7.16. GetNode

Queries the details of a node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetNode	The operation that you want to perform. Set the value to **GetNode**.
NodeId	Long	Yes	1234	The ID of the node. You can call the ListNodes operation to query the node ID.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
ErrorMessage	String	The connection does not exist.	The error message returned.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The details of the node.
SchedulerType	String	NORMAL	The scheduling type of the node. Valid values: • NORMAL: The node is an auto triggered node. • MANUAL: The node is a manually triggered node. Manually triggered nodes cannot be automatically triggered. • PAUSE: The node is a paused node. • SKIP: The node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
RepeatInterval	Long	60	The interval at which the node is rerun after the node fails to run.
Repeatability	String	true	Indicates whether the node can be rerun.
ProjectId	Long	1234	The ID of the workspace.
ProgramType	String	ODPS_SQL	The type of the node.
Priority	Integer	1	The priority of the node. Valid values: 1, 3, 5, 7, and 8.
OwnerId	String	17366294****	The ID of the owner of the node.
Connection	String	odps_first_dev	The connection string.
ParamValues	String	a=b	Other parameters.
RelatedFlowId	Long	123	The ID of the workflow to which the node belongs.

Parameter	Type	Example	Description
DqcType	Integer	1	Indicates whether the node is associated with Data Quality. Valid values: 0 and 1. A value of 0 indicates that the node is associated with Data Quality. A value of 1 indicates that the node is not associated with Data Quality.
BaselineId	Long	123456	The ID of the baseline.
Description	String	test	The description of the node.
NodeName	String	SQL node	The name of the node.
ResGroupName	String	Default resource group	The name of the resource group.
BusinessId	Long	123	The ID of the workflow.
DqcDescription	String	[{"projectName":"test_0923001","tableName":"test_table_001","partition":"ds\u003d$[yyyymmdd]"},{"projectName":"test_0923001","tableName":"test_table_002","partition":"NOTAPARTITIONTABLE"}]	The table and partition filter expression in Data Quality that are associated with the node.
CronExpress	String	00 00 00 * * ?	The CRON expression returned.
NodeId	Long	1234	The ID of the node.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetNode
&NodeId=1234
&ProjectEnv=PROD
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetNodeResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <SchedulerType>NORMAL</SchedulerType>
        <RepeatInterval>60</RepeatInterval>
        <Repeatability>true</Repeatability>
        <ProjectId>1234</ProjectId>
        <ProgramType>ODPS_SQL</ProgramType>
        <Priority>1</Priority>
        <OwnerId>17366294****</OwnerId>
        <Connection>odps_first_dev</Connection>
        <ParamValues>a=b</ParamValues>
        <RelatedFlowId>123</RelatedFlowId>
        <DqcType>1</DqcType>
        <BaselineId>123456</BaselineId>
        <Description>test</Description>
        <NodeName>SQL node</NodeName>
        <ResGroupName>Default resource group</ResGroupName>
        <BusinessId>123</BusinessId>
        <DqcDescription>[{"projectName":"test_0923001","tableName":"test_table_001","partiti
on":"ds\u003d$[yyyymmdd]"},{"projectName":"test_0923001","tableName":"test_table_002","parti
tion":"NOTAPARTITIONTABLE"}]</DqcDescription>
        <CronExpress>00 00 00 * * ?</CronExpress>
        <NodeId>1234</NodeId>
    </Data>
</GetNodeResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "E6F0DBDD-5AD****",
  "ErrorMessage" : "The connection does not exist.",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true,
  "Data" : {
    "SchedulerType" : "NORMAL",
    "RepeatInterval" : 60,
    "Repeatability" : true,
    "ProjectId" : 1234,
    "ProgramType" : "ODPS_SQL",
    "Priority" : 1,
    "OwnerId" : "17366294****",
    "Connection" : "odps_first_dev",
    "ParamValues" : "a=b",
    "RelatedFlowId" : 123,
    "DqcType" : 1,
    "BaselineId" : 123456,
    "Description" : "test",
    "NodeName" : "SQL node",
    "ResGroupName" : "Default resource group",
    "BusinessId" : 123,
    "DqcDescription" : "[{\"projectName\":\"test_0923001\",\"tableName\":\"test_table_001\",
\"partition\":\"ds\\u003d$[yyyymmdd]\"},{\"projectName\":\"test_0923001\",\"tableName\":\"te
st_table_002\",\"partition\":\"NOTAPARTITIONTABLE\"}]",
    "CronExpress" : "00 00 00 * * ?",
    "NodeId" : 1234
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.17. ListNodeInputOrOutput

Queries the input and output information of a node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	ListNodeInputOrOutput	The operation that you want to perform. Set the value to **ListNodeInputOrOutput**.
NodeId	Long	Yes	12314567	The ID of the node. You can call the ListNodes operation to query the node ID.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: DEV and PROD. A value of DEV indicates the development environment. A value of PROD indicates the production environment.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the service is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
IoType	String	Yes	output	The type of node that you want to query. Valid values: • input: ancestor nodes • output: descendant nodes

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to query logs and troubleshoot issues.
ErrorMessage	String	The project does not exist.	The error message returned if the request fails.
ErrorCode	String	Invalid.Tenant.ProjectNotExists	The error code returned if the request fails.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.
Data	Array of Data		The ancestor or descendant nodes.
TableName	String	dwd_xxx_table	The name of the associated table.
Data	String	xxxx.123141254_out	The name of the ancestor or descendant node.
NodeId	Long	1234667	The ID of the node.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListNodeInputOrOutput
&NodeId=12314567
&ProjectEnv=PROD
&IoType=output
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListNodeInputOrOutputResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <ErrorMessage>The project does not exist.</ErrorMessage>
    <ErrorCode>Invalid.Tenant.ProjectNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <TableName>dwd_xxx_table</TableName>
        <Data>xxxx.123141254_out</Data>
        <NodeId>1234667</NodeId>
    </Data>
</ListNodeInputOrOutputResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "E6F0DBDD-5AD****",
  "ErrorMessage" : "The project does not exist.",
  "ErrorCode" : "Invalid.Tenant.ProjectNotExists",
  "Success" : true,
  "Data" : {
    "TableName" : "dwd_xxx_table",
    "Data" : "xxxx.123141254_out",
    "NodeId" : 1234667
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.18. ListNodes

Queries nodes.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListNodes	The operation that you want to perform.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV.
ProjectId	Long	Yes	1234	The ID of the workspace.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Parameter	Type	Required	Example	Description
Owner	String	No	193379****	The ID of the owner of the node.
BizName	String	No	test_bizName	The name of the workflow.
ProgramType	String	No	ODPS_SQL	The type of the node.
PageNumber	Integer	No	1	The number of the page to return. Minimum value: 1. Maximum value: 100.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
NodeName	String	No	liux_test_n****	The name of the node.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The list of nodes.
Nodes	Array of Nodes		The information about the nodes.
BaselineId	Long	123456	The ID of the baseline.
Connection	String	odps_first	The connection string.
CronExpress	String	00 00 00 * * ?	The cron expression returned.
Description	String	test	The description of the node.
DqcDescription	String	[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a","partition":"ds\u003d$[yyyy-mm-dd-1]"}]	The table and partition filter expression in Data Quality that are associated with the instance.

Parameter	Type	Example	Description
DqcType	Integer	1	Indicates whether the instance is associated with Data Quality. 0: The instance is associated with Data Quality. 1: The instance is not associated with Data Quality.
NodeId	Long	1234	The ID of the node.
NodeName	String	liux_test_n****	The name of the node.
OwnerId	String	19337906836551	The ID of the owner of the node.
ParamValues	String	a=b	Other parameters.
Priority	Integer	1	Priority for running the node. Valid values: 1, 3, 5, 7, and 8.
ProgramType	String	ODPS_SQL	The type of the node.
ProjectId	Long	33671	The ID of the workspace.
RelatedFlowId	Long	1231123	The ID of the associated workflow.
RepeatInterval	Long	60	Indicates the interval at which the node is rerun after the node fails to run.
Repeatability	Boolean	true	Indicates whether the node can be rerun.
ResGroupName	String	Default resource group	The name of the resource group.

Parameter	Type	Example	Description
SchedulerType	String	NORMAL	The type of the node. Valid values: • NORMAL: indicates that the node is a normal auto triggered node. • MANUAL: indicates that the node is a manually triggered node. • PAUSE: indicates that the node is a paused node. • SKIP: indicates that the node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Integer	66	The total number of nodes returned.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListNodes
&ProjectEnv=PROD
&ProjectId=1234
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format


```
<RequestId>E6F0DBDD-5AD****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TotalCount>66</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
    <Nodes>
        <BaselineId>123456</BaselineId>
        <ResGroupName>Default resource group</ResGroupName>
        <Description>test</Description>
        <NodeName>liux_test_n****</NodeName>
        <DqcType>1</DqcType>
        <Priority>1</Priority>
        <ParamValues>a=b</ParamValues>
        <Connection>odps_first</Connection>
        <ProjectId>33671</ProjectId>
        <RelatedFlowId>1231123</RelatedFlowId>
        <SchedulerType>NORMAL</SchedulerType>
        <CronExpress>00 00 00 * * ?</CronExpress>
        <Repeatability>true</Repeatability>
        <OwnerId>19337906836551</OwnerId>
        <DqcDescription>[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a
","partition":"ds\u003d$[yyyy-mm-dd-1]"}]</DqcDescription>
        <NodeId>1234</NodeId>
        <ProgramType>ODPS_SQL</ProgramType>
        <RepeatInterval>60</RepeatInterval>
    </Nodes>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```


`JSON` format

```
{
    "RequestId": "E6F0DBDD-5AD****",
    "HttpStatusCode": 200,
    "Data": {
        "TotalCount": 66,
        "PageSize": 10,
        "PageNumber": 1,
        "Nodes": {
            "BaselineId": 123456,
            "ResGroupName": "Default resource group",
            "Description": "test",
            "NodeName": "liux_test_n****",
            "DqcType": 1,
            "Priority": 1,
            "ParamValues": "a=b",
            "Connection": "odps_first",
            "ProjectId": 33671,
            "RelatedFlowId": 1231123,
            "SchedulerType": "NORMAL",
            "CronExpress": "00 00 00 * * ?",
            "Repeatability": true,
            "OwnerId": 19337906836551,
            "DqcDescription": "[{\"projectName\":\"ztjy_dim\",\"tableName\":\"dim_user_agent
_manage_area_a\",\"partition\":\"ds\\u003d$[yyyy-mm-dd-1]\"}]",
            "NodeId": 1234,
            "ProgramType": "ODPS_SQL",
            "RepeatInterval": 60
        }
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```


Error codes

For a list of error codes, visit the API Error Center.

7.19. GetNodeCode

Queries the code of a node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	GetNodeCode	The operation that you want to perform.
NodeId	Long	Yes	1234	The ID of the node.
ProjectEnv	String	Yes	PROD	The environment of the workspace, including projects in PROD and DEV.
RegionId	String	Yes	cn-shanghai	Region information, which is usually the region where the service is located. For example, China (Shanghai) is cn-shanghai, and China (Zhangjiakou) is cn-zhangjiakou. You do not need to specify the RegionId because it is automatically resolved based on the endpoint that is called.

Response parameters

Parameter	Type	Example	Description
Data	String	select a;	The code of the node.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. It is used to locate logs and troubleshoot problems.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=getnodeecode&NodeId=1234 &ProjectEnv=PROD &RegionId=cn-shangha
i &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>select a;
</Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connecti
on does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Hint

```
{ "RequestId": "E6F0DBDD-5AD****", "HttpStatusCode": 200, "Data": "select a;", "ErrorCode":
"Invalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Suc
cess": true }
```

Error code

Go to the Error Center For more information, see error codes.

7.20. GetInstance

Queries the details of an instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetInstance	The operation that you want to perform.
InstanceId	Long	Yes	1234	The ID of the instance. You can call the ListInstances operation to query the ID.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The details of the instance.
BaselineId	Long	123123	The ID of the baseline.
BeginRunningTime	Long	1590416703313	The time when the instance started to run.
BeginWaitResTime	Long	1590416703313	The time when the instance started to wait for resources.
BeginWaitTimeTime	Long	1590416703313	The time when the instance started to wait for its scheduled time to arrive.
Bizdate	Long	1590336000000	The data timestamp. In most cases, the value is one day before the date when the instance is run.
Connection	String	odps_first	The connection string.
CreateTime	Long	1590416703313	The time when the instance was created.
CycTime	Long	1590422400000	The time when the instance was scheduled to run.
DagId	Long	338450167	The ID of the workflow.

Parameter	Type	Example	Description
DagType	String	DAILY	The type of the workflow. Valid values: • DAILY: The workflow is used to run auto triggered nodes. • MANUAL: The workflow is used to run manually triggered nodes. • SMOKE_TEST: The workflow is used to perform smoke testing. • SUPPLY_DATA: The workflow is used to backfill data.
DqcDescription	String	[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a","partition":"ds\u003d$[yyyy-mm-dd-1]"}]	The table and partition filter expression in Data Quality that are associated with the instance.
DqcType	Integer	1	Indicates whether the instance is associated with Data Quality. Valid values: • 0: The instance is associated with Data Quality. • 1: The instance is not associated with Data Quality.
FinishTime	Long	1590416703313	The time when the running of the instance was complete.
InstanceId	Long	11713307578	The ID of the instance.
ModifyTime	Long	1590416703313	The time when the instance was last modified.
NodeId	Long	33115	The ID of the node.
NodeName	String	kzh	The name of the node.
ParamValues	String	bizdate=$bizdate tbods=$tbods tbdw=$tbdw tbpmic=$tbpmic tbpidx=$tbpidx tbptcif=$tbptcif	The values of the parameters related to the node.

Parameter	Type	Example	Description
Priority	Integer	1	The priority of the instance. Valid values: 1, 3, 5, 7, and 8. A large value indicates a high priority. Default value: 1.
RelatedFlowId	Long	123123	The ID of the associated workflow.
RepeatInterval	Long	60000	The interval at which the node is rerun after the node fails to run. Unit: milliseconds.
Repeatability	Boolean	true	Indicates whether the node can be rerun.
Status	String	NOT_RUN	The status of the node. Valid values: • NOT_RUN: The node is not run. • WAIT_TIME: The node is waiting for its scheduled time to arrive. • WAIT_RESOURCE: The node is waiting for resources. • RUNNING: The node is running. • CHECKING: Data quality is being checked for the node. • CHECKING_CONDITION: Branch conditions are being checked for the node. • FAILURE: The node fails to run. • SUCCESS: The node is successfully run.
TaskRerunTime	Integer	0	The number of times the node can be rerun. This parameter can be left empty, or the value of this parameter can be an integer that is greater than or equal to 0. • If this parameter is left empty, the number of rerun times is not specified for the node. • If the value of this parameter is set to 0, the node cannot be rerun. • If the value of this parameter is n (an integer that is greater than 0), the node can be rerun n times. For example, if the value of this parameter is 1, the node can be rerun one time. If the value of this parameter is 2, the node can be rerun two times, and so on.

Parameter	Type	Example	Description
TaskType	String	NORMAL(0)	The scheduling type of the node. Valid values: • NORMAL(0): The node is an auto triggered node. It is run on a regular basis. • MANUAL(1): The node is a manually triggered node. It is not run on a regular basis. • PAUSE(2): The node is a frozen node. The scheduling system still runs the node but sets it to FAILURE when the scheduling system starts to run the node. • SKIP(3): The node is a dry-run node. The scheduling system still runs the node but sets it to SUCCESS when the scheduling system starts to run the node. • SKIP_UNCHOOSE(4): The node is an unselected node in a temporary workflow. This type of node exists only in temporary workflows. The scheduling system sets the node to SUCCESS when the scheduling system starts to run the node. • SKIP_CYCLE(5): The node is a weekly or monthly node whose running cycle does not arrive. The scheduling system still runs the node but sets it to SUCCESS when the scheduling system starts to run the node. • CONDITION_UNCHOOSE(6): The node is not selected by its ancestor branch node and is set to a dry-run node. • REALTIME_DEPRECATED(7): The node is generated in real time but is deprecated. The scheduling system directly sets it to SUCCESS.
ErrorCode	String	0	The error code returned.
ErrorMessage	String	test	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetInstance
&InstanceId=1234
&ProjectEnv=PROD
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <BaselineId>123123</BaselineId>
    <ModifyTime>1590416703313</ModifyTime>
    <NodeName>kzh</NodeName>
    <DagType>DAILY</DagType>
    <ParamValues>bizdate=$bizdate tbods=$tbods tbdw=$tbdw tbpmic=$tbpmic tbpidx=$tbpidx tbpt
cif=$tbptcif</ParamValues>
    <DagId>338450167</DagId>
    <BeginRunningTime>1590416703313</BeginRunningTime>
    <Bizdate>1590336000000</Bizdate>
    <FinishTime>1590416703313</FinishTime>
    <DqcDescription>[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a","p
artition":"ds\u003d$[yyyy-mm-dd-1]"}]</DqcDescription>
    <Status>NOT_RUN</Status>
    <TaskType>NORMAL(0)</TaskType>
    <TaskRetunTime>0</TaskRetunTime>
    <InstanceId>11713307578</InstanceId>
    <DqcType>1</DqcType>
    <Priority>1</Priority>
    <CreateTime>1590416703313</CreateTime>
    <Connection>odps_first</Connection>
    <RelatedFlowId>123123</RelatedFlowId>
    <BeginWaitTimeTime>1590416703313</BeginWaitTimeTime>
    <CycTime>1590422400000</CycTime>
    <Repeatability>true</Repeatability>
    <NodeId>33115</NodeId>
    <BeginWaitResTime>1590416703313</BeginWaitResTime>
    <ErrorMessage>error message</ErrorMessage>
    <RepeatInterval>60000</RepeatInterval>
</Data>
<ErrorCode>0</ErrorCode>
<ErrorMessage>test</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "E6F0DBDD-5AD****",
    "HttpStatusCode": 200,
    "Data": {
        "BaselineId": 123123,
        "ModifyTime": 1590416703313,
        "NodeName": "kzh",
        "DagType": "DAILY",
        "ParamValues": "bizdate=$bizdate tbods=$tbods tbdw=$tbdw tbpmic=$tbpmic tbpidx=$tbpi
dx tbptcif=$tbptcif",
        "DagId": 338450167,
        "BeginRunningTime": 1590416703313,
        "Bizdate": 1590336000000,
        "FinishTime": 1590416703313,
        "DqcDescription": "[{\"projectName\":\"ztjy_dim\",\"tableName\":\"dim_user_agent_man
age_area_a\",\"partition\":\"ds\\u003d$[yyyy-mm-dd-1]\"}]",
        "Status": "NOT_RUN",
        "TaskType": "NORMAL(0)",
        "TaskRetunTime": 0,
        "InstanceId": 11713307578,
        "DqcType": 1,
        "Priority": 1,
        "CreateTime": 1590416703313,
        "Connection": "odps_first",
        "RelatedFlowId": 123123,
        "BeginWaitTimeTime": 1590416703313,
        "CycTime": 1590422400000,
        "Repeatability": true,
        "NodeId": 33115,
        "BeginWaitResTime": 1590416703313,
        "ErrorMessage": "error message",
        "RepeatInterval": 60000
    },
    "ErrorCode": 0,
    "ErrorMessage": "test",
    "Success": true
}
```


Error codes

For a list of error codes, visit the API Error Center.

7.21. ListInstances

Queries instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListInstances	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The region ID in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. A value of PROD indicates the production environment. A value of DEV indicates the development environment.
NodeId	Long	Yes	100000000000	The ID of the node. You can call the ListNodes operation to query the ID of the node.
NodeName	String	No	openmr_8****	The name of the node. You can call the ListNodes operation to query the name of the node.
Owner	String	No	193379****	The ID of the Alibaba Cloud account used by the workspace administrator. You can log on to the Alibaba Cloud Management Console and view the ID on the Basic Information page of the Account Center console.
ProjectId	Long	Yes	12345	The ID of the workspace. You can call the ListProjects operation to query the ID of the workspace.
BizName	String	No	test_bizName	The name of the workflow. You can call the ListBusiness operation to query the name of the workflow.

Parameter	Type	Required	Example	Description
ProgramType	String	No	ODPS_SQL	The type of the node. You can call the ListNodes operation to query the type of the node.
PageNumber	Integer	No	1	The number of the page to return. The number cannot be less than 1 or greater than 100.
PageSize	Integer	No	10	The number of entries to return per page. Default value: 10. The number cannot exceed 100. You cannot specify the sorting method for the instances to be returned by this operation. By default, the instances are sorted in reverse chronological order based on the time when the instances were created.
DagId	Long	No	11111	The ID of the directed acyclic graph (DAG). You can set this parameter to the value of the DagId parameter returned by the RunCycleDagNodes, RunSmokeTest, or RunManualDagNodes operation. The RunManualDagNodes operation is used to backfill data, the RunSmokeTest operation is used to perform smoke testing, and the RunManualDagNodes operation is used to run nodes in a manually triggered workflow.
Bizdate	String	No	2020-02-02 00:00:00	The data timestamp of the instances that you want to query. Specify the timestamp in the yyyy-MM-dd HH:mm:ss format.
BeginBizdate	String	No	2020-02-02 00:00:00	The beginning of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format.
EndBizdate	String	No	2020-02-03 00:00:00	The end of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can search for logs and troubleshoot errors based on the ID.
ErrorMessage	String	The project does not exist.	The error message returned.
ErrorCode	String	Invalid.Tenant.ProjectNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
Data	Object		The instances returned.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. The number does not exceed 100.
TotalCount	Integer	66	The total number of instances.
Instances	Array of Instance		The information about the instance.

Parameter	Type	Example	Description
Status	String	NOT_RUN	The status of the node. Valid values: • NOT_RUN: The node is not run. • WAIT_TIME: The node is waiting for the scheduled time to arrive. • WAIT_RESOURCE: The node is waiting for resources. • RUNNING: The node is running. • CHECKING: Data quality is being checked for the node. • CHECKING_CONDITION: Branch conditions are being checked for the node. • FAILURE: The node fails to run. • SUCCESS: The node is run as expected.
CycTime	Long	1590422400000	The time when the node was scheduled to run.
BeginRunningTime	Long	1590416703313	The time when the instance started to run.
FinishTime	Long	1590416703313	The time when the node stopped running.
ErrorMessage	String	error message	The error message that is returned for the instance. This parameter is deprecated. You can call the GetInstanceLog operation to query the error information related to the node.
CreateTime	Long	1590416703313	The time when the instance was generated.
DagId	Long	33845	The ID of the workflow.
Priority	Integer	1	The priority of the instance. Valid values: 1, 3, 5, 7, and 8. A greater value indicates a higher priority. Default value: 1.

Parameter	Type	Example	Description
TaskType	String	NORMAL(0)	The scheduling type of the node. Valid values: • NORMAL(0): The node is an auto triggered node. The node is regularly run. • MANUAL(1): The node is a manually triggered node. The node is not regularly run. • PAUSE(2): The node is a frozen node. The scheduling system still regularly runs the node but sets the node status to Failed when the scheduling system starts to run the node. • SKIP(3): The node is a dry-run node. The scheduling system still regularly runs the node but sets the node status to Succeeded when the scheduling system starts to run the node. • SKIP_UNCHOOSE(4): The node is an unselected node in a temporary workflow. This type of node exists only in temporary workflows. The scheduling system sets the node status to Succeeded when the scheduling system starts to run the node. • SKIP_CYCLE(5): The node is a node that is scheduled by week or month and is waiting for the scheduled time to arrive. The scheduling system still regularly runs the node but sets the node status to Succeeded when the scheduling system starts to run the node. • CONDITION_UNCHOOSE(6): The node is not selected by an ancestor branch node and is dry run. REALTIME_DEPRECATED(7): The node has instances that are generated in real time but deprecated. The scheduling system sets the node status to Succeeded.
ParamValues	String	bizdate=$bizdate tbods=$tbods	The parameters related to the node.
Connection	String	odps_first	The connection string.
BaselineId	Long	123123	The ID of the baseline.

Parameter	Type	Example	Description
DqcType	Integer	1	Indicates whether the instance is associated with Data Quality. Valid values: • 0: The instance is associated with Data Quality. • 1: The instance is not associated with Data Quality.
DagType	String	DAILY	The type of the workflow. Valid values: • DAILY: The workflow is used to run auto triggered nodes. • MANUAL: The workflow is used to run manually triggered nodes. • SMOKE_TEST: The workflow is used to perform smoke testing. • SUPPLY_DATA: The workflow is used to backfill data.
BusinessId	Long	123	The ID of the workflow.
TaskRerunTime	Integer	0	The number of times the node that generates the instance can still be rerun. The value of this parameter can be empty or an integer that is greater than or equal to 0. • If the value of this parameter is empty, the number of times that the node can be rerun is not specified. • If the value of this parameter is 0, the node cannot be rerun. • If the value of this parameter is a positive integer such as n, the node can still be rerun n times. For example, if the value of this parameter is 1, the node can still be rerun once. If the value of this parameter is 2, the node can still be rerun twice.
ModifyTime	Long	1590416703313	The time when the node was last modified.
Repeatability	Boolean	true	Indicates whether the node can be rerun.
RepeatInterval	Long	60000	The interval at which the node that generates the instance is rerun after the node fails to run. Unit: milliseconds.

Parameter	Type	Example	Description
InstanceId	Long	1234	The ID of the instance.
BeginWaitResTime	Long	1590416703313	The time when the instance started to wait for resources.
RelatedFlowId	Long	123456	The ID of the workflow to which the node belongs.
Bizdate	Long	1590336000000	The data timestamp of the instance. In most cases, the value indicates one day before the time when the instance was run.
NodeName	String	kzh	The name of the node.
BeginWaitTime Time	Long	1590416703313	The time when the instance started to wait to be scheduled.
DqcDescription	String	[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a","partition":"ds\u003d$[yyyy-mm-dd-1]"}]	The table and partition filter expression in Data Quality that is associated with the instance.
NodeId	Long	33115	The ID of the node.
CreateUser	String	Test	The name of the account that is used to run the instance. For example, if an account named Test was used to run the instance to backfill data, the value of this parameter is Test.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListInstances
&ProjectEnv=PROD
&NodeId=100000000000
&NodeName=openmr_8****
&Owner=193379****
&ProjectId=12345
&BizName=test_bizName
&ProgramType=ODPS_SQL
&PageNumber=1
&PageSize=10
&DagId=11111
&Bizdate=2020-02-02 00:00:00
&BeginBizdate=2020-02-02 00:00:00
&EndBizdate=2020-02-03 00:00:00
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListInstancesResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <ErrorMessage>The project does not exist.</ErrorMessage>
    <ErrorCode>Invalid.Tenant.ProjectNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>66</TotalCount>
        <Instances>
            <Status>NOT_RUN</Status>
            <CycTime>1590422400000</CycTime>
            <BeginRunningTime>1590416703313</BeginRunningTime>
            <FinishTime>1590416703313</FinishTime>
            <ErrorMessage>error message</ErrorMessage>
            <CreateTime>1590416703313</CreateTime>
            <DagId>33845</DagId>
            <Priority>1</Priority>
            <TaskType>NORMAL(0)</TaskType>
            <ParamValues>bizdate=$bizdate tbods=$tbods</ParamValues>
            <Connection>odps_first</Connection>
            <BaselineId>123123</BaselineId>
            <DqcType>1</DqcType>
            <DagType>DAILY</DagType>
            <BusinessId>123</BusinessId>
            <TaskRerunTime>0</TaskRerunTime>
            <ModifyTime>1590416703313</ModifyTime>
            <Repeatability>true</Repeatability>
            <RepeatInterval>60000</RepeatInterval>
            <InstanceId>1234</InstanceId>
            <BeginWaitResTime>1590416703313</BeginWaitResTime>
            <RelatedFlowId>123456</RelatedFlowId>
            <Bizdate>1590336000000</Bizdate>
            <NodeName>kzh</NodeName>
            <BeginWaitTimeTime>1590416703313</BeginWaitTimeTime>
            <DqcDescription>[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_ar
ea_a","partition":"ds\u003d$[yyyy-mm-dd-1]"}]</DqcDescription>
            <NodeId>33115</NodeId>
            <CreateUser>Test</CreateUser>
        </Instances>
    </Data>
</ListInstancesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "E6F0DBDD-5AD****",
  "ErrorMessage" : "The project does not exist.",
  "ErrorCode" : "Invalid.Tenant.ProjectNotExists",
  "Success" : true,
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 66,
    "Instances" : {
      "Status" : "NOT_RUN",
      "CycTime" : 1590422400000,
      "BeginRunningTime" : 1590416703313,
      "FinishTime" : 1590416703313,
      "ErrorMessage" : "error message",
      "CreateTime" : 1590416703313,
      "DagId" : 33845,
      "Priority" : 1,
      "TaskType" : "NORMAL(0)",
      "ParamValues" : "bizdate=$bizdate tbods=$tbods",
      "Connection" : "odps_first",
      "BaselineId" : 123123,
      "DqcType" : 1,
      "DagType" : "DAILY",
      "BusinessId" : 123,
      "TaskRerunTime" : 0,
      "ModifyTime" : 1590416703313,
      "Repeatability" : true,
      "RepeatInterval" : 60000,
      "InstanceId" : 1234,
      "BeginWaitResTime" : 1590416703313,
      "RelatedFlowId" : 123456,
      "Bizdate" : 1590336000000,
      "NodeName" : "kzh",
      "BeginWaitTimeTime" : 1590416703313,
      "DqcDescription" : "[{\"projectName\":\"ztjy_dim\",\"tableName\":\"dim_user_agent_mana
ge_area_a\",\"partition\":\"ds\\u003d$[yyyy-mm-dd-1]\"}]",
      "NodeId" : 33115,
      "CreateUser" : "Test"
    }
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.22. GetInstanceLog

Queries the logs of an instance.

You may not obtain the instance logs that were generated more than seven days ago.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetInstanceLog	The operation that you want to perform. Set the value to **GetInstanceLog**.
InstanceId	Long	Yes	1234	The ID of the instance.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	String	log_content	The content of the logs.
ErrorMessage	String	The connection does not exist.	The error message.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error codes.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetInstanceLog
&InstanceId=1234
&ProjectEnv=PROD
&<Common request parameters>
```

Sample responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetInstanceLogResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>log_content</Data>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
</GetInstanceLogResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : "log_content",
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "E6F0DBDD-5AD****",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.23. StopInstance

Terminates an instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StopInstance	The operation that you want to perform. Set the value to **StopInstance**.
InstanceId	Long	Yes	1234	The ID of the instance. You can call the ListInstances operation to query the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	Boolean	true	The result returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=StopInstance
&InstanceId=1234
&ProjectEnv=PROD
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<StopInstanceResponse>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
</StopInstanceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E6F0DBDD-5AD****",
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.24. RestartInstance

Restarts an instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RestartInstance	The operation that you want to perform.
InstanceId	Long	Yes	1234	The ID of the instance that you want to modify.
ProjectEnv	String	Yes	PROD	The environment of the workspace, including projects in PROD and DEV.
RegionId	String	Yes	cn-shanghai	Region information, which is usually the region where the service is located. For example, China (Shanghai) is cn-shanghai, and China (Zhangjiakou) is cn-zhangjiakou. You do not need to specify the RegionId because it is automatically resolved based on the endpoint that is called.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The details of the response after you call the restart instance operation.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	q32ety****	The ID of the request. It is used to locate logs and troubleshoot problems.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=RestartInstance &InstanceId=1234 &ProjectEnv=PROD &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>q32ety****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <Success>true</Success>
```

`JSON` Hint

```
{ "RequestId": "q32ety****", "HttpStatusCode": 200, "Data": true, "ErrorCode": "Invalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Success": true }
```

Error code

Go to the Error Center For more information, see error codes.

7.25. SetSuccessInstance

Sets the state of a failed instance to successful.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SetSuccessInstance	The operation that you want to perform. Set the value to **SetSuccessInstance**.
InstanceId	Long	Yes	1234	The ID of the instance.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
Data	Boolean	true	Indicates whether result details are returned.
ErrorMessage	String	The connection does not exist.	The error message.
RequestId	String	E6F0DBDD-5AD****	The ID of the request.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=SetSuccessInstance
&InstanceId=1234
&ProjectEnv=PROD
&<Common request parameters>
```

Sample responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SetSuccessInstanceResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
</SetSuccessInstanceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "E6F0DBDD-5AD****",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.26. SuspendInstance

Suspends an instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SuspendInstance	The operation that you want to perform.
InstanceId	Long	Yes	1234	The ID of the instance that you want to modify.

Parameter	Type	Required	Example	Description
ProjectEnv	String	Yes	PROD	The environment of the workspace, including projects in PROD and DEV.
RegionId	String	Yes	cn-shanghai	Region information, which is usually the region where the service is located. For example, China (Shanghai) is cn-shanghai, and China (Zhangjiakou) is cn-zhangjiakou. You do not need to specify the RegionId because it is automatically resolved based on the endpoint that is called.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The SuspendInstance of the response after the operation is called.
ErrorCode	String	Invalid.Tenant.ProjectNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0baf87f0159376****	The ID of the request. It is used to locate logs and troubleshoot problems.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=SuspendInstance &InstanceId=1234 &ProjectEnv=PROD &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0baf87f0159376****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <ErrorCode>Invalid.Tenant.ProjectNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <Success>true</Success>
```

JSON Hint

```
{ "RequestId": "0baf87f0159376****", "HttpStatusCode": 200, "Data": true, "ErrorCode": "Invalid.Tenant.ProjectNotExists", "ErrorMessage": "The connection does not exist.", "Success": true }
```

Error code

Go to the Error Center For more information, see error codes.

7.27. ResumeInstance

Resumes a suspended instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ResumeInstance	The operation that you want to perform.
InstanceId	Long	Yes	1234	The ID of the instance that you want to modify.
ProjectEnv	String	Yes	PROD	The environment of the workspace, including projects in PROD and DEV.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	Region information, which is usually the region where the service is located. For example, China (Shanghai) is cn-shanghai, and China (Zhangjiakou) is cn-zhangjiakou. You do not need to specify the RegionId because it is automatically resolved based on the endpoint that is called.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The result after the ResumeInstance operation is called.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	E6F0DBDD-5AD****	The ID of the request. It is used to locate logs and troubleshoot problems.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ResumeInstance &InstanceId=1234 &ProjectEnv=PROD &RegionId=cn-shanghai &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true
</Data> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>The connecti
on does not exist. </ErrorMessage> <Success>true</Success>
```

JSON Hint

```
{ "RequestId": "E6F0DBDD-5AD****", "HttpStatusCode": 200, "Data": true, "ErrorCode": "I
nvalid.Tenant.ConnectionNotExists", "ErrorMessage": "The connection does not exist.", "Succe
ss": true }
```

Error code

Go to the Error Center For more information, see error codes.

7.28. RunCycleDagNodes

Creates a workflow to backfill data.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RunCycleDagNodes	The operation that you want to perform.
EndBizDate	String	Yes	2020-05-21 00:00:00	The date and time at which data is no longer backfilled. Specify this parameter in the yyyy-MM-dd 00:00:00 format.
IncludeNodeIds	String	Yes	74324,74325	The ID of the node for which you want to backfill data. If you want to backfill data for multiple nodes, separate the IDs of the nodes with commas (,). You can call the ListNodes operation to query the node IDs.
Name	String	Yes	xm_test	The name of the workflow.

Parameter	Type	Required	Example	Description
Parallelism	Boolean	Yes	false	Specifies whether data can be backfilled for multiple nodes at the same time.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
RootNodeId	Long	Yes	1234	The ID of the node for which data is first backfilled. You can call the ListNodes operation to query the ID.
StartBizDate	String	Yes	2020-05-20 00:00:00	The date and time at which data starts to be backfilled. Specify this parameter in the yyyy-MM-dd 00:00:00 format.
ExcludeNodeIds	String	No	1234,123465	The IDs of the nodes for which no data needs to be backfilled. The system generates dry-run instances for all these nodes. After these dry-run instances are scheduled, the statuses of these instances are directly set to successful, but the script is not run.
BizBeginTime	String	No	00:00:00	The time when the node was run. This parameter is required only for auto triggered nodes that are scheduled by hour. Specify this parameter in the HH:mm:ss format. Valid values: 00:00:00 to 23:59:59.

Parameter	Type	Required	Example	Description
BizEndTime	String	No	01:00:00	The time when the node was successfully run. This parameter is required only for auto triggered nodes that are scheduled by hour. Specify this parameter in the HH:mm:ss format. Valid values: 00:00:00 to 23:59:59.
NodeParams	String	No	{74324:"key1=val1 key2=val"}	The parameters that need to be configured for the node. Set this parameter to a JSON string. The key represents the node ID, and the value represents the actual values of the parameters.

Response parameters

Parameter	Type	Example	Description
Data	List	111	The IDs of the nodes in the workflow.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	>E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RunCycleDagNodes
&EndBizDate=2020-05-21 00:00:00
&IncludeNodeIds=74324,74325
&Name=xm_test
&Parallelism=false
&ProjectEnv=PROD
&RegionId=cn-shanghai
&RootNodeId=1234
&StartBizDate=2020-05-20 00:00:00
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>111</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "E6F0DBDD-5AD****",
    "HttpStatusCode": 200,
    "Data": 111,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.29. RunSmokeTest

Creates a workflow to perform smoke testing.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	RunSmokeTest	The operation that you want to perform.
Bizdate	String	Yes	2020-05-26 00:00:00	The data timestamp.
Name	String	Yes	xm_create_test	The name of the workflow.
NodeId	Long	Yes	1234	The ID of the node. You can call the ListNodes operation to obtain the ID.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
NodeParams	String	No	bizdate=$bizdate param1=demo1 param2=demo2	The parameters related to the node.

Response parameters

Parameter	Type	Example	Description
Data	Long	3333333	The ID of the workflow.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.

Parameter	Type	Example	Description
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Success	Boolean	false	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RunSmokeTest
&Bizdate=2020-05-26 00:00:00
&Name=xm_create_test
&NodeId=1234
&ProjectEnv=PROD
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>3333333</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>false</Success>
```

`JSON` format

```
{
    "RequestId": "E6F0DBDD-5AD****",
    "HttpStatusCode": 200,
    "Data": 3333333,
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": false
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.30. ListSuccessInstanceAmount

Queries the trend of the number of auto triggered node instances that are successfully run every hour on the hour of the current day.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListSuccessInstanceAmount	The operation that you want to perform.
ProjectId	Long	Yes	9527	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
InstanceStatusTrend	Struct		Indicates the trend of the number of auto triggered node instances that are successfully run every hour on the hour of the current day.
AvgTrend	Array of AvgTrend		The average trend.
Count	Integer	10	The number of instances that are successfully run.
TimePoint	String	01:00	The point in time. The value is an exact hour that ranges from 00:00 to 23:00, such as 00:00, 01:00, or 02:00.

Parameter	Type	Example	Description
TodayTrend	Array of TodayTrend		The trend of the number of auto triggered node instances that are successfully run on the current day.
Count	Integer	10	The number of instances that are successfully run.
TimePoint	String	01:00	The point in time. The value is an exact hour that ranges from 00:00 to 23:00, such as 00:00, 01:00, or 02:00.
YesterdayTrend	Array of YesterdayTrend		The trend of the number of auto triggered node instances that are successfully run one day earlier than the current day.
Count	Integer	10	The number of instances that are successfully run.
TimePoint	String	01:00	The point in time. The value is an exact hour that ranges from 00:00 to 23:00, such as 00:00, 01:00, or 02:00.
RequestId	String	952795279527ab****	The ID of the request. You can use the ID to troubleshoot issues.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListSuccessInstanceAmount
&ProjectId=9527
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>952795279527ab****</RequestId>
<InstanceStatusTrend>
    <YesterdayTrend>
        <TimePoint>01:00</TimePoint>
        <Count>10</Count>
    </YesterdayTrend>
    <AvgTrend>
        <TimePoint>01:00</TimePoint>
        <Count>10</Count>
    </AvgTrend>
    <TodayTrend>
        <TimePoint>01:00</TimePoint>
        <Count>10</Count>
    </TodayTrend>
</InstanceStatusTrend>
```

`JSON` format

```
{
    "RequestId": "952795279527ab****",
    "InstanceStatusTrend": {
        "YesterdayTrend": {
            "TimePoint": "01:00",
            "Count": 10
        },
        "AvgTrend": {
            "TimePoint": "01:00",
            "Count": 10
        },
        "TodayTrend": {
            "TimePoint": "01:00",
            "Count": 10
        }
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HttpCode	Error code	Error message	Description
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the maximum number of requests for the resource has been reached.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the maximum number of requests per day for the resource has been reached.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for this resource has reached the upper limit. Submit a ticket for help.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	The error message returned because you are not authorized to access the workspace.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.31. ListInstanceAmount

Queries the trend of the number of auto triggered node instances within a specified period of time.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListInstanceAmount	The operation that you want to perform.
BeginDate	String	Yes	2021-06-13T00:00:00+0800	The beginning of the time range to query, accurate to the day. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndDate	String	Yes	2021-06-16T00:00:00+0800	The end of the time range to query, accurate to the day. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
InstanceCounts	Array of IntanceCounts		The trend of the number of auto triggered node instances within the specified period of time.
Count	Integer	9527	The number of auto triggered node instances.
Date	Long	1623772800000	The data timestamp at which the number of auto triggered node instances was obtained. This value is a UNIX timestamp.

Parameter	Type	Example	Description
RequestId	String	95279527adhfj****	The ID of the request. You can use the ID to troubleshoot issues.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListInstanceAmount
&BeginDate=2021-06-13T00:00:00+0800
&EndDate=2021-06-16T00:00:00+0800
&ProjectId=10000
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>95279527adhfj****</RequestId>
<InstanceCounts>
    <Count>319</Count>
    <Date>1623513600000</Date>
</InstanceCounts>
<InstanceCounts>
    <Count>320</Count>
    <Date>1623600000000</Date>
</InstanceCounts>
<InstanceCounts>
    <Count>320</Count>
    <Date>1623686400000</Date>
</InstanceCounts>
<InstanceCounts>
    <Count>320</Count>
    <Date>1623772800000</Date>
</InstanceCounts>
```

`JSON` format

```
{
  "RequestId": "95279527adhfj****",
  "InstanceCounts": [
    {
      "Count": 319,
      "Date": 1623513600000
    },
    {
      "Count": 320,
      "Date": 1623600000000
    },
    {
      "Count": 320,
      "Date": 1623686400000
    },
    {
      "Count": 320,
      "Date": 1623772800000
    }
  ]
}
```

Error codes

HttpCode	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the maximum number of requests for the resource has been reached.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the maximum number of requests per day for the resource has been reached.

HttpCode	Error code	Error message	Description
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for this resource has reached the upper limit. Submit a ticket for help.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Forbidden.Wkbench.NoProject	You have not joined any project.	The error message returned because you have not joined a workspace.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	The error message returned because the values specified for one or more parameters are invalid.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.32. TopTenElapsedTimeInstance

Queries the ranking of the running durations of instances in the Successful or Failed state.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TopTenElapsedTimeInstance	The operation that you want to perform. Set the value to **TopTenElapsedTimeInstance**.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	Yes	100000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	6347364dadsfadf****	The ID of the request. You can troubleshoot errors based on the ID.
InstanceConsumeTimeRank	Object		The ranking record of the running durations of the instances.
UpdateTime	Long	1600963200000	The timestamp at which the ranking of the running durations of the instances was updated.
ConsumeTimeRank	Array of ConsumeTimeRank		The ranking data of the running durations of the instances.
Owner	String	952795279527	The ID of the Alibaba Cloud account used by the owner of the node.
NodeName	String	Node name	The name of the node.
BusinessDate	Long	1600963200000	The data timestamp of the instance.

Parameter	Type	Example	Description
ProgramType	Integer	10	The type of the node. Valid values: 6 (Shell), 10 (ODPS SQL), 11 (ODPS MR), 23 (Data Integration), 24 (ODPS Script), 99 (zero load), 221 (PyODPS 2), 225 (ODPS Spark), 227 (EMR Hive), 228 (EMR Spark), 229 (EMR Spark SQL), 230 (EMR MR), 239 (OSS object inspection), 257 (EMR Shell), 258 (EMR Spark Shell), 259 (EMR Presto), 260 (EMR Impala), 900 (real-time synchronization), 1089 (cross-tenant collaboration), 1091 (Hologres development), 1093 (Hologres SQL), 1100 (assignment), and 1221 (PyODPS 3)
InstanceId	Long	95279527	The ID of the instance.
NodeId	Long	9527	The ID of the node.
Consumed	Long	1000	The running duration of the instance. Unit: seconds.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=TopTenElapsedTimeInstance
&BusinessDate=2020-09-21T00:00:00+0800
&ProjectId=100000
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<TopTenElapsedTimeInstanceResponse>
    <RequestId>6347364dadsfadf****</RequestId>
    <InstanceConsumeTimeRank>
        <UpdateTime>1600963200000</UpdateTime>
        <ConsumeTimeRank>
            <Owner>952795279527</Owner>
            <BusinessDate>1600963200000</BusinessDate>
            <InstanceId>95279527</InstanceId>
            <NodeName>Node name</NodeName>
            <NodeId>9527</NodeId>
            <Consumed>1000</Consumed>
            <ProgramType>10</ProgramType>
        </ConsumeTimeRank>
    </InstanceConsumeTimeRank>
</TopTenElapsedTimeInstanceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "6347364dadsfadf****",
  "InstanceConsumeTimeRank" : {
    "UpdateTime" : 1600963200000,
    "ConsumeTimeRank" : {
      "Owner" : 952795279527,
      "BusinessDate" : 1600963200000,
      "InstanceId" : 95279527,
      "NodeName" : "Node name",
      "NodeId" : 9527,
      "Consumed" : 1000,
      "ProgramType" : 10
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	The error message returned because you are not authorized to access the workspace.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been reached. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

7.33. TopTenErrorTimesInstance

Queries the ranking of nodes on which errors occur within the last month.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TopTenErrorTimesInstance	The operation that you want to perform.
ProjectId	Long	Yes	9527	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
InstanceErrorRank	Struct		The ranking of nodes on which errors occur.
ErrorRank	Array of ErrorRank		The ranking of nodes on which errors occur within the last month.
Count	Integer	5	The number of errors that occur on the node.
NodeId	Long	9527	The ID of the node.
NodeName	String	Node name	The name of the node.
Owner	String	952795279527	The user identifier (UID) of the Alibaba Cloud account used by the owner of the node.

Parameter	Type	Example	Description
ProgramType	Integer	10	The type of the node. Valid values: 6 (Shell node), 10 (ODPS SQL node), 11 (ODPS MR node), 23 (Data Integration node), 24 (ODPS Script node), 99 (zero load node), 221 (PyODPS 2 node), 225 (ODPS Spark node), 227 (EMR Hive node), 228 (EMR Spark node), 229 (EMR Spark SQL node), 230 (EMR MR node), 239 (OSS object inspection node), 257 (EMR Shell node), 258 (EMR Spark Shell node), 259 (EMR Presto node), 260 (EMR Impala node), 900 (real-time data synchronization node), 1089 (cross-tenant collaboration node), 1091 (Hologres development node), 1093 (Hologres SQL node), 1100 (assignment node), and 1221 (PyODPS 3 node).
ProjectId	Long	9527	The ID of the DataWorks workspace.
UpdateTime	Long	1600963200000	The time when the ranking was updated.
RequestId	String	952795279527****	The ID of the request. You can use the ID to troubleshoot issues.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=TopTenErrorTimesInstance
&ProjectId=9527
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>952795279527****</RequestId>
<InstanceErrorRank>
    <UpdateTime>1600963200000</UpdateTime>
    <ErrorRank>
        <Owner>952795279527</Owner>
        <NodeName>Node name</NodeName>
        <ProjectId>9527</ProjectId>
        <NodeId>9527</NodeId>
        <ProgramType>10</ProgramType>
        <Count>5</Count>
    </ErrorRank>
</InstanceErrorRank>
```

`JSON` format

```
{
    "RequestId": "952795279527****",
    "InstanceErrorRank": {
        "UpdateTime": 1600963200000,
        "ErrorRank": {
            "Owner": 952795279527,
            "NodeName": "Node name",
            "ProjectId": 9527,
            "NodeId": 9527,
            "ProgramType": 10,
            "Count": 5
        }
    }
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.

HTTP status code	Error code	Error message	Description
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the number of requests per day for the resource has exceeded the upper limit.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for the resource has been reached. Submit a ticket.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Forbidden.Wkbench.ProjectNoPermission	You are not authorized to access the workspace.	The error message returned because you are not authorized to access the workspace.
500	Invalid.Wkbench.Parameter	The specified parameters are invalid.	The error message returned because the values specified for one or more parameters are invalid.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.34. GetFileTypeStatistic

Queries the distribution of node types.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetFileTypeStatistic	The operation that you want to perform.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.
ProjectId	Long	Yes	123465	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
ProgramTypeAndCounts	Array of ProgramTypeAndCount		An array of node types and quantity.
Count	Integer	1	The number of nodes.

Parameter	Type	Example	Description
ProgramType	String	ODPS_SQL	The type of the node. Valid values: 6 (Shell node), 10 (ODPS SQL node), 11 (ODPS MR node), 23 (Data Integration node), 24 (ODPS Script node), 99 (zero load node), 221 (PyODPS 2 node), 225 (ODPS Spark node), 227 (EMR Hive node), 228 (EMR Spark node), 229 (EMR Spark SQL node), 230 (EMR MR node), 239 (OSS object inspection node), 257 (EMR Shell node), 258 (EMR Spark Shell node), 259 (EMR Presto node), 260 (EMR Impala node), 900 (real-time data synchronization node), 1089 (cross-tenant collaboration node), 1091 (Hologres development node), 1093 (Hologres SQL node), 1100 (assignment node), and 1221 (PyODPS 3 node).
RequestId	String	SDFSDFSDF-SDFSDF-SDFDSF-SDFSDF	The ID of the request. You can use the ID to locate logs and troubleshoot issues.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetFileTypeStatistic
&ProjectEnv=PROD
&ProjectId=123465
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>SDFSDFSDF-SDFSDF-SDFDSF-SDFSDF</RequestId>
<ProgramTypeAndCounts>
    <Count>1</Count>
    <ProgramType>ODPS_SQL</ProgramType>
</ProgramTypeAndCounts>
```

`JSON` format

```
{
    "RequestId": "SDFSDFSDF-SDFSDF-SDFDSF-SDFSDF",
    "ProgramTypeAndCounts": {
        "Count": 1,
        "ProgramType": "ODPS_SQL"
    }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.35. GetInstanceStatusStatistic

Queries the number of instances in each state.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetInstanceStatusStatistic	The operation that you want to perform. Set the value to **GetInstanceStatusStatistic**.
ProjectId	Long	Yes	1234	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
ProjectEnv	String	Yes	PROD	The environment type. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
BizDate	String	Yes	2020-01-01	The date on which the numbers of instances in different states are obtained.
SchedulerType	String	No	NORMAL	The type of the node. Valid values: • NORMAL: an auto triggered node • MANUAL: a manually triggered node • PAUSE: a paused node • SKIP: a dry-run node
DagType	String	No	MANUAL	The type of the directed acyclic graph (DAG). Valid values: • MANUAL: the DAG for a manually triggered workflow • SMOKE_TEST: the DAG for a smoke testing workflow • SUPPLY_DATA: the DAG for a data backfill instance • BUSINESS_PROCESS_DAG: the DAG for a one-time workflow

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
StatusCount	Object		The numbers of instances in different states.

Parameter	Type	Example	Description
FailureCount	Integer	1	The number of instances that failed to run.
WaitTimeCount	Integer	1	The number of instances that are waiting to run.
RunningCount	Integer	1	The number of running instances.
SuccessCount	Integer	1	The number of instances that are successfully run.
TotalCount	Integer	1	The total number of instances.
NotRunCount	Integer	1	The number of instances that are not run.
WaitResCount	Integer	1	The number of instances that are waiting for resources.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetInstanceStatusStatistic
&ProjectId=1234
&ProjectEnv=PROD
&BizDate=2020-01-01
&SchedulerType=NORMAL
&DagType=MANUAL
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetInstanceStatusStatisticResponse>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <StatusCount>
        <FailureCount>1</FailureCount>
        <WaitTimeCount>1</WaitTimeCount>
        <RunningCount>1</RunningCount>
        <SuccessCount>1</SuccessCount>
        <TotalCount>1</TotalCount>
        <NotRunCount>1</NotRunCount>
        <WaitResCount>1</WaitResCount>
    </StatusCount>
</GetInstanceStatusStatisticResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG****",
  "StatusCount" : {
    "FailureCount" : 1,
    "WaitTimeCount" : 1,
    "RunningCount" : 1,
    "SuccessCount" : 1,
    "TotalCount" : 1,
    "NotRunCount" : 1,
    "WaitResCount" : 1
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.36. ListFileType

Queries the information of one or more node types, such as the code and name of a node type.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	ListFileType	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page to return.
PageSize	Integer	Yes	50	The number of entries to return on each page. Maximum value: 100.
RegionId	String	Yes	cn-zhangjiakou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectId	Long	No	10000	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID. You must specify either this parameter or ProjectIdentifier to determine the DataWorks workspace to which the operation is applied.
ProjectIdentifier	String	No	dw_project	The name of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the name. You must specify either this parameter or ProjectId to determine the DataWorks workspace to which the operation is applied.

Parameter	Type	Required	Example	Description
Keyword	String	No	ODPS SQL	The name of the node type. You can log on to the DataWorks console, go to the DataStudio page, and then view the name of a specific node type on the left side of the page. Take note of the following items when you use this parameter: • You can view the English or Chinese name of a specific node type, but the language specified by this parameter to present the name must be the same as the language specified by the Locale parameter. • Fuzzy match is supported. • If this parameter is not specified, the names of all node types are returned.
Locale	String	No	zh-CN	The language that you use for the query. Valid values: zh-CN and en-US.

Response parameters

Parameter	Type	Example	Description
NodeTypeInfoList	Struct		The information of the node types.
NodeTypeInfo	Array of NodeTypeInfo		The information of the node type.
NodeType	Integer	10	The code of the node type. The codes and names of node types have the following mappings: 6 (Shell node), 10 (ODPS SQL node), 11 (ODPS MR node), 23 (Data Integration node), 24 (ODPS Script node), 99 (zero-load node), 221 (PyODPS 2 node), 225 (ODPS Spark node), 227 (EMR Hive node), 228 (EMR Spark node), 229 (EMR Spark SQL node), 230 (EMR MR node), 239 (OSS object inspection node), 257 (EMR Shell node), 258 (EMR Spark Shell node), 259 (EMR Presto node), 260 (EMR Impala node), 900 (real-time synchronization node), 1089 (cross-tenant collaboration node node), 1091 (Hologres development node), 1093 (Hologres SQL node), 1100 (assignment node), and 1221 (PyODPS 3 node).

Parameter	Type	Example	Description
NodeTypeName	String	ODPS SQL	The name of the node type. The codes and names of node types have the following mappings: 6 (Shell node), 10 (ODPS SQL node), 11 (ODPS MR node), 23 (Data Integration node), 24 (ODPS Script node), 99 (zero-load node), 221 (PyODPS 2 node), 225 (ODPS Spark node), 227 (EMR Hive node), 228 (EMR Spark node), 229 (EMR Spark SQL node), 230 (EMR MR node), 239 (OSS object inspection node), 257 (EMR Shell node), 258 (EMR Spark Shell node), 259 (EMR Presto node), 260 (EMR Impala node), 900 (real-time synchronization node), 1089 (cross-tenant collaboration node), 1091 (Hologres development node), 1093 (Hologres SQL node), 1100 (assignment node), and 1221 (PyODPS 3 node).
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	50	The number of entries returned per page.
TotalCount	Integer	127	The total number of entries returned.
RequestId	String	0000-ABCD-EFG****	The ID of the request. You can use the ID to troubleshoot issues.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListFileType
&PageNumber=1
&PageSize=50
&RegionId=cn-zhangjiakou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<NodeTypeInfoList>
    <TotalCount>127</TotalCount>
    <PageSize>50</PageSize>
    <PageNumber>1</PageNumber>
    <NodeTypeInfo>
        <NodeTypeName>ODPS SQL</NodeTypeName>
        <NodeType>10</NodeType>
    </NodeTypeInfo>
</NodeTypeInfoList>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "NodeTypeInfoList": {
        "TotalCount": 127,
        "PageSize": 50,
        "PageNumber": 1,
        "NodeTypeInfo": {
            "NodeTypeName": "ODPS SQL",
            "NodeType": 10
        }
    }
}
```

Error codes

Http status code	Error code	Error message	Description
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal system error has occurred. Try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

Http status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not authorized to perform this operation. Activate DataWorks Enterprise Edition or Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.37. RunManualDagNodes

Runs nodes in a manually triggered workflow. Before you call this operation, make sure that the manually triggered workflow is committed and deployed. You can find the manually triggered workflow on the Operation Center page only after the manually triggered workflow is committed and deployed.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RunManualDagNodes	The operation that you want to perform. Set the value to RunManualDagNodes.
BizDate	String	Yes	2020-11-11 00:00:00	The data timestamp. The value must be one or more days before the current date. For example, if the current date is November 11, 2020, set the value to 2020-11-10 00:00:00 or earlier. Specify this parameter in the YYYY-MM-DD 00:00:00 format.
FlowName	String	Yes	test_workflow	The name of the manually triggered workflow.
ProjectEnv	String	Yes	PROD or DEV	The environment type. Valid values: PROD and DEV. A value of PROD indicates the production environment. A value of DEV indicates the development environment.

Parameter	Type	Required	Example	Description
ProjectName	String	Yes	test_workspace	The name of the workspace to which the manually triggered workflow belongs.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
NodeParameters	String	No	{"20000123121": "key1=val2 key2=val2", "20000123124": "kkkk=vvvvv aaaa=bbbb"}	The parameters transmitted between nodes in the manually triggered workflow. The parameters are in the following JSON format: { "<ID of a node in the manually triggered workflow>": "Scheduling parameter settings of the node, which are in the same format as the Parameters parameter on the Properties tab of the DataStudio page", "<ID of a node in the manually triggered workflow>": "Scheduling parameter settings of the node, which are in the same format as the Parameters parameter on the Properties tab of the DataStudio page" }.

Parameter	Type	Required	Example	Description
DagParameters	String	No	{"kaaaa": "vaaaaa", "kbbbb": "vbbbbb"}	The parameters of the manually triggered workflow, which are synchronized to all the instances in the directed acyclic graph (DAG) of the workflow. If a workflow parameter specified in DagParameters is referenced as a scheduling parameter of a node, the value of the scheduling parameter is replaced with the value of the workflow parameter.
IncludeNodeIds	String	No	74324,74325	The IDs of the nodes that you need to run in the manually triggered workflow. Separate multiple node IDs with commas (,). You can call the ListNodes operation to query the node IDs.
ExcludeNodeIds	String	No	123,456	The IDs of the nodes that you do not need to run in the manually triggered workflow. The system generates dry-run instances for all these nodes. After the dry-run instances are scheduled, the states of these instances are directly set to successful, but the scripts are not run. Separate multiple node IDs with commas (,).
ProjectId	Long	No	123	The ID of the workspace to which the manually triggered workflow belongs.

Response parameters

Parameter	Type	Example	Description
DagId	Long	700000123123141	The ID of the DAG for the manually triggered workflow. You can call an operation with this parameter as a request parameter to query the details and statuses of the nodes in this manually triggered workflow.
RequestId	String	AASFDFSDFG-DFSDF-DFSDFD-SDFSDF	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RunManualDagNodes
&BizDate=2020-11-11 00:00:00
&FlowName=test_workflow
&NodeParameters={"20000123121": "key1=val2 key2=val2", "20000123124": "kkkk=vvvvv aaaa=bbbb"
}
&ProjectEnv=PROD or DEV
&ProjectName=test_workspace
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>AASFDFSDFG-DFSDF-DFSDFD-SDFSDF</RequestId>
<DagId>700000123123141</DagId>
```

`JSON` format

```
{
    "RequestId": "AASFDFSDFG-DFSDF-DFSDFD-SDFSDF",
    "DagId": 700000123123141
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.38. ListManualDagInstances

Queries instances in a manually triggered workflow.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListManualDagInstances	The operation that you want to perform.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectEnv	String	Yes	RPOD	The environment of the workspace. Valid values: PROD and DEV. A value of PROD indicates the production environment. A value of DEV indicates the development environment.
ProjectName	String	Yes	test_workspace	The name of the workspace to which the manually triggered workflow belongs. You can log on to the DataWorks console and go to the Workspace Management page to view the name.
DagId	String	Yes	7000001231241	The ID of the directed acyclic graph (DAG) for the manually triggered workflow. You can call the RunManualDagNodes operation to obtain the ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	SDFSDFSDF-SDFSDF-SDFDSF-SDFSDF	The ID of the request. You can use the ID to search for logs and troubleshoot issues based on the logs.
Instances	Array of Instances		The instances in the manually triggered workflow.

Parameter	Type	Example	Description
Status	String	SUCCESS	The status of the node. Valid values: • NOT_RUN: The node is not run. • WAIT_TIME: The node is waiting for its scheduled time to arrive. • WAIT_RESOURCE: The node is waiting for resources. • RUNNING: The node is running. • CHECKING: Data quality is being checked for the node. • CHECKING_CONDITION: Branch conditions are being checked for the node. • FAILURE: The node fails to run. • SUCCESS: The node is run as expected.
BeginRunningTime	Long	1605178414676	The time when the node started to run. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
BizDate	Long	1605178414676	The data timestamp of the instance. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC. In most cases, the value indicates one day before the time when the node was run.
CycTime	Long	1605178414676	The time when the node was scheduled to run. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
FinishTime	Long	1605178414676	The time when the node stopped running. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
CreateTime	Long	1605178414676	The time when the node was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
DagId	Long	350850491	The ID of the DAG for the manually triggered workflow.

Parameter	Type	Example	Description
InstanceId	Long	11726873619	The ID of the instance in the manually triggered workflow.
BeginWaitResTime	Long	1605178414676	The time when the node started to wait for resources. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
TaskType	String	MANUAL	The scheduling type of the node. Valid values: • NORMAL(0): The node is an auto triggered node. It is run on a regular basis. • MANUAL(1): The node is a manually triggered node. It is not run on a regular basis. • PAUSE(2): The node is a frozen node. The scheduling system still runs the node on a regular basis but sets it to Failed when the scheduling system starts to run the node. • SKIP(3): The node is a dry-run node. The scheduling system still runs the node on a regular basis but sets it to Succeeded when the scheduling system starts to run the node. • SKIP_UNCHOOSE(4): The node is an unselected node in a temporary workflow. This type of node exists only in temporary workflows. The scheduling system sets the node to Succeeded when the scheduling system starts to run the node. • SKIP_CYCLE(5): The node is a node that is scheduled by week or month and is waiting for its scheduled time. The scheduling system still runs the node on a regular basis but sets it to Succeeded when the scheduling system starts to run the node. • CONDITION_UNCHOOSE(6): The node is not selected by its ancestor branch node and is run as a dry-run node. • REALTIME_DEPRECATED(7): The node has instances generated in real time but deprecated. The scheduling system directly sets the node to Succeeded.
ParamValues	String	xxx=yyy	The parameters related to the instance.

Parameter	Type	Example	Description
DagType	String	5	The identifier of the manually triggered workflow.
NodeName	String	test2	The name of the node.
BeginWaitTime Time	Long	1605178414676	The time when the node started to wait to be scheduled. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
NodeId	Long	37851	The ID of the node in the manually triggered workflow.
ModifyTime	Long	1605178414676	The time when the node was last modified. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
CreateUser	String	Test	The name of the account used to run the instance. For example, if an account named Test was used to run the instance to backfill data, the value of this parameter is Test.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListManualDagInstances
&ProjectEnv=RPOD
&ProjectName=test_workspace
&DagId=7000001231241
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListManualDagInstancesResponse>
    <RequestId>SDFSDFSDF-SDFSDF-SDFDSF-SDFSDF</RequestId>
    <Instances>
        <Status>SUCCESS</Status>
        <BeginRunningTime>1605178414676</BeginRunningTime>
        <BizDate>1605178414676</BizDate>
        <CycTime>1605178414676</CycTime>
        <FinishTime>1605178414676</FinishTime>
        <CreateTime>1605178414676</CreateTime>
        <DagId>350850491</DagId>
        <InstanceId>11726873619</InstanceId>
        <BeginWaitResTime>1605178414676</BeginWaitResTime>
        <TaskType>MANUAL</TaskType>
        <ParamValues>xxx=yyy</ParamValues>
        <DagType>5</DagType>
        <NodeName>test2</NodeName>
        <BeginWaitTimeTime>1605178414676</BeginWaitTimeTime>
        <NodeId>37851</NodeId>
        <ModifyTime>1605178414676</ModifyTime>
        <CreateUser>Test</CreateUser>
    </Instances>
</ListManualDagInstancesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "SDFSDFSDF-SDFSDF-SDFDSF-SDFSDF",
  "Instances" : {
    "Status" : "SUCCESS",
    "BeginRunningTime" : 1605178414676,
    "BizDate" : 1605178414676,
    "CycTime" : 1605178414676,
    "FinishTime" : 1605178414676,
    "CreateTime" : 1605178414676,
    "DagId" : 350850491,
    "InstanceId" : 11726873619,
    "BeginWaitResTime" : 1605178414676,
    "TaskType" : "MANUAL",
    "ParamValues" : "xxx=yyy",
    "DagType" : 5,
    "NodeName" : "test2",
    "BeginWaitTimeTime" : 1605178414676,
    "NodeId" : 37851,
    "ModifyTime" : 1605178414676,
    "CreateUser" : "Test"
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.39. GetDag

Queries the details of a directed acyclic graph (DAG) based on the ID of the DAG. You can call the GetDag operation to query the details of the DAG for a manually triggered workflow, a manually triggered node, or a data backfill instance. However, you cannot query the details of the DAG for an auto triggered node or an auto triggered workflow.

Supported DAG types:

- MANUAL: the DAG for a manually triggered workflow.
- SMOKE_TEST: the DAG for a smoke testing workflow.
- SUPPLY_DATA: the DAG for a data backfill instance.
- BUSINESS_PROCESS_DAG: the DAG for a one-time workflow.

Supported DAG states:

- CREATED: The DAG is created.
- RUNNING: The DAG is running.
- FAILURE: The DAG fails to run.
- SUCCESS: The DAG successfully runs.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDag	The operation that you want to perform. Set the value to **GetDag**.
RegionId	String	Yes	cn-shanghai	The ID of the region where the workspace resides.
DagId	Long	Yes	12314145234452 5	The ID of the DAG. You can set this parameter to the value of the DagId parameter returned by the CreateDagComplement, CreateTest, or CreateManualDag operation.

Parameter	Type	Required	Example	Description
ProjectEnv	String	Yes	PROD	The environment type. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.

Response parameters

Parameter	Type	Example	Description
HTTP status code	Integer	200	The HTTP status code returned.
RequestId	String	7782a299-b291-4fee-8424-cf8058efa8e8	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
ErrorMessage	String	The connection does not exist.	The error message returned.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The details of the DAG.
Type	String	MANUAL_FLOW	The type of the DAG. Valid values: MANUAL, SMOKE_TEST, SUPPLY_DATA, and BUSINESS_PROCESS_DAG.
Status	String	FAILURE	The status of the DAG. Valid values: CREATED, RUNNING, FAILURE, and SUCCESS.
FinishTime	Long	1605052800000	The time at which the DAG finished running. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
CreateTime	Long	1605052800000	The time at which the DAG was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.

Parameter	Type	Example	Description
ProjectId	Long	112345	The ID of the workspace.
DagId	Long	351249682	The ID of the DAG.
Gmtdate	Long	1605052800000	The time at which the DAG was scheduled to run.
StartTime	Long	1605052800000	The time at which the DAG started to run.
CreateUser	String	1736629400048545	The user who created the DAG.
Bizdate	Long	1605052800000	The data timestamp.
Name	String	test_dag	The name of the DAG.
ModifyTime	Long	1605052800000	The time at which the DAG was last modified. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
OpSeq	Long	123	The sequence number of the operation.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetDag
&DagId=123141452344525
&ProjectEnv=PROD
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetDagResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>7782a299-b291-4fee-8424-cf8058efa8e8</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <Type>MANUAL_FLOW</Type>
        <Status>FAILURE</Status>
        <FinishTime>1605052800000</FinishTime>
        <CreateTime>1605052800000</CreateTime>
        <ProjectId>112345</ProjectId>
        <DagId>351249682</DagId>
        <Gmtdate>1605052800000</Gmtdate>
        <StartTime>1605052800000</StartTime>
        <CreateUser>1736629400048545</CreateUser>
        <Bizdate>1605052800000</Bizdate>
        <Name>test_dag</Name>
        <ModifyTime>1605052800000</ModifyTime>
        <OpSeq>123</OpSeq>
    </Data>
</GetDagResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "7782a299-b291-4fee-8424-cf8058efa8e8",
  "ErrorMessage" : "The connection does not exist.",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true,
  "Data" : {
    "Type" : "MANUAL_FLOW",
    "Status" : "FAILURE",
    "FinishTime" : 1605052800000,
    "CreateTime" : 1605052800000,
    "ProjectId" : 112345,
    "DagId" : 351249682,
    "Gmtdate" : 1605052800000,
    "StartTime" : 1605052800000,
    "CreateUser" : 1736629400048545,
    "Bizdate" : 1605052800000,
    "Name" : "test_dag",
    "ModifyTime" : 1605052800000,
    "OpSeq" : 123
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.40. ListDags

Obtains the details of directed acyclic graphs (DAGs) for a single data backfill instance based on OpSeq.

Supported DAG types:

- MANUAL: the DAG for a manually triggered workflow.
- SMOKE_TEST: the DAG for a smoke testing workflow.
- SUPPLY_DATA: the DAG for a data backfill instance.
- BUSINESS_PROCESS_DAG: the DAG for a one-time workflow.

Supported DAG states:

- CREATED: The DAG is created.
- RUNNING: The DAG is running.
- FAILURE: The DAG fails to run.
- SUCCESS: The DAG successfully runs.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDags	The operation that you want to perform. Set the value to **ListDags**.
RegionId	String	Yes	cn-shanghai	The region ID of the workspace. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
OpSeq	Long	Yes	123	The sequence number that uniquely identifies the data backfill operation.

Parameter	Type	Required	Example	Description
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. PROD indicates the production environment. DEV indicates the development environment.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	7782a299-b291-4fee-8424-cf8058efa8e8	The ID of the request. You can use the ID to locate logs and troubleshoot errors.
ErrorMessage	String	The connection does not exist.	The error message returned.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The details of DAGs.
Dags	Array of Dag		The entities returned.
Type	String	MANUAL_FLOW	The type of the DAG. Valid values: MANUAL, SMOKE_TEST, SUPPLY_DATA, and BUSINESS_PROCESS_DAG.
Status	String	FAILURE	The status of the DAG. Valid values: CREATED, RUNNING, FAILURE, and SUCCESS.
FinishTime	Long	1605052800000	The time at which the DAG finished running. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.

Parameter	Type	Example	Description
CreateTime	Long	1605052800000	The time at which the DAG was created. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
ProjectId	Long	112345	The ID of the workspace.
DagId	Long	351249682	The ID of the DAG.
Gmtdate	Long	1605052800000	The time at which the DAG was scheduled to run.
StartTime	Long	1605052800000	The time at which the DAG started to run.
CreateUser	String	1736629400048545	The user who created the DAG.
Bizdate	Long	1605052800000	The data timestamp.
Name	String	test_dag	The name of the DAG.
ModifyTime	Long	1605052800000	The time at which the DAG was last modified. This value is a UNIX timestamp representing the number of milliseconds that have elapsed since January 1, 1970, 00:00:00 UTC.
OpSeq	Long	123	The sequence number of the operation.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListDags
&OpSeq=123
&ProjectEnv=PROD
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListDagsResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>7782a299-b291-4fee-8424-cf8058efa8e8</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
    <Data>
        <Dags>
            <Type>MANUAL_FLOW</Type>
            <Status>FAILURE</Status>
            <FinishTime>1605052800000</FinishTime>
            <CreateTime>1605052800000</CreateTime>
            <ProjectId>112345</ProjectId>
            <DagId>351249682</DagId>
            <Gmtdate>1605052800000</Gmtdate>
            <StartTime>1605052800000</StartTime>
            <CreateUser>1736629400048545</CreateUser>
            <Bizdate>1605052800000</Bizdate>
            <Name>test_dag</Name>
            <ModifyTime>1605052800000</ModifyTime>
            <OpSeq>123</OpSeq>
        </Dags>
    </Data>
</ListDagsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "7782a299-b291-4fee-8424-cf8058efa8e8",
  "ErrorMessage" : "The connection does not exist.",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true,
  "Data" : {
    "Dags" : {
      "Type" : "MANUAL_FLOW",
      "Status" : "FAILURE",
      "FinishTime" : 1605052800000,
      "CreateTime" : 1605052800000,
      "ProjectId" : 112345,
      "DagId" : 351249682,
      "Gmtdate" : 1605052800000,
      "StartTime" : 1605052800000,
      "CreateUser" : 1736629400048545,
      "Bizdate" : 1605052800000,
      "Name" : "test_dag",
      "ModifyTime" : 1605052800000,
      "OpSeq" : 123
    }
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.41. ListNodesByOutput

Queries nodes based on the output of the nodes.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListNodesByOutput	The operation that you want to perform.
Outputs	String	Yes	aaaaa.1231412_out,bbbb.12313123_out	The output name of the node. You can specify multiple output names. In this case, separate them with commas (,).

Parameter	Type	Required	Example	Description
ProjectEnv	String	Yes	PROD	The environment type. Valid values: PROD and DEV. The value PROD indicates the production environment. The value DEV indicates the development environment.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Array of OutputNodePair		The nodes returned.
NodeList	Array of Node		The information of the nodes returned.
BaselineId	Long	1235667	The ID of the baseline.
Connection	String	odps_first	The name of the data source.
CronExpress	String	00 00 00 * * ?	The cron expression.
Description	String	test	The description of the node.
DqcDescription	String	[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a","partition":"ds\u003d$[yyyy-mm-dd-1]"}]	The table and partition filter expression in Data Quality that are associated with the node.

Parameter	Type	Example	Description
DqcType	Integer	1	Indicates whether the node is associated with Data Quality. Valid values: 0 and 1. The value 0 indicates that node is associated with Data Quality, and the value 1 indicates that the node is not associated with Data Quality.
FileType	String	ODPS_SQL	The type of the node. Valid values: 6 (Shell node), 10 (ODPS SQL node), 11 (ODPS MR node), 23 (Data Integration node), 24 (ODPS Script node), 99 (zero-load node), 221 (PyODPS 2 node), 225 (ODPS Spark node), 227 (EMR Hive node), 228 (EMR Spark node), 229 (EMR Spark SQL node), 230 (EMR MR node), 239 (OSS object inspection node), 257 (EMR Shell node), 258 (EMR Spark Shell node), 259 (EMR Presto node), 260 (EMR Impala node), 900 (real-time synchronization node), 1089 (cross-tenant collaboration node), 1091 (Hologres development node), 1093 (Hologres SQL node), 1100 (assignment node), and 1221 (PyODPS 3 node).
NodeId	Long	125677	The ID of the node.
NodeName	String	liux_test_n****	The name of the node.
OwnerId	String	19337906836551	The ID of the node owner.
ParamValues	String	a=b	The values of the scheduling parameters configured for the node.
Priority	Integer	1	The priority of the node. Valid values: 1, 3, 5, 7, and 8. A large value indicates a high priority. Default value: 1.
ProgramType	String	ODPS_SQL	The type of the node. This parameter is deprecated. For more information about node types, see the valid values of FileType.
ProjectId	Long	33671	The ID of the workspace.

Parameter	Type	Example	Description
RelatedFlowId	Long	1235655464	The ID of the associated workflow.
RepeatInterval	Integer	60	The interval at which the node is rerun after the node fails to run.
Repeatability	Boolean	true	Indicates whether the node can be rerun.
ResGroupName	String	Default resource group	The name of the resource group.
SchedulerType	String	NORMAL	The scheduling type of the node. Valid values: • NORAMAL: The node is an auto triggered node. The node is scheduled on a regular basis. • MANUAL: The node is a manually triggered node. The node is not scheduled on a regular basis. • PAUSE: The node is a frozen node. The system schedules the node on a regular basis but sets it to FAILURE when the system starts to schedule it. • SKIP: The node is a dry-run node. The system schedules the node on a regular basis but sets it to SUCCESS when the system starts to schedule it.
Output	String	test_0709_1.630003556_out	The output name of the current node.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	The connection does not exist.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	SDFSDFSDF-asdfDFSDF-SDFSDf-SDfSFD	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListNodesByOutput
&Outputs=aaaaa.1231412_out,bbbb.12313123_out
&ProjectEnv=PROD
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>SDFSDFSDF-asdfDFSDF-SDFSDf-SDfSFD</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Output>test_0709_1.630003556_out</Output>
    <NodeList>
        <BaselineId>1235667</BaselineId>
        <ResGroupName>Default resource group</ResGroupName>
        <Description>test</Description>
        <NodeName>liux_test_n****</NodeName>
        <DqcType>1</DqcType>
        <Priority>1</Priority>
        <ParamValues>a=b</ParamValues>
        <Connection>odps_first</Connection>
        <ProjectId>33671</ProjectId>
        <RelatedFlowId>1235655464</RelatedFlowId>
        <SchedulerType>NORMAL</SchedulerType>
        <CronExpress>00 00 00 * * ?</CronExpress>
        <Repeatability>true</Repeatability>
        <OwnerId>19337906836551</OwnerId>
        <FileType>ODPS_SQL</FileType>
        <DqcDescription>[{"projectName":"ztjy_dim","tableName":"dim_user_agent_manage_area_a
","partition":"ds\u003d$[yyyy-mm-dd-1]"}]</DqcDescription>
        <NodeId>125677</NodeId>
        <ProgramType>ODPS_SQL</ProgramType>
        <RepeatInterval>60</RepeatInterval>
    </NodeList>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>The connection does not exist.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "SDFSDFSDF-asdfDFSDF-SDFSDf-SDfSFD",
    "HttpStatusCode": 200,
    "Data": {
        "Output": "test_0709_1.630003556_out",
        "NodeList": {
            "BaselineId": 1235667,
            "ResGroupName": "Default resource group",
            "Description": "test",
            "NodeName": "liux_test_n****",
            "DqcType": 1,
            "Priority": 1,
            "ParamValues": "a=b",
            "Connection": "odps_first",
            "ProjectId": 33671,
            "RelatedFlowId": 1235655464,
            "SchedulerType": "NORMAL",
            "CronExpress": "00 00 00 * * ?",
            "Repeatability": true,
            "OwnerId": 19337906836551,
            "FileType": "ODPS_SQL",
            "DqcDescription": "[{\"projectName\":\"ztjy_dim\",\"tableName\":\"dim_user_agent
_manage_area_a\",\"partition\":\"ds\\u003d$[yyyy-mm-dd-1]\"}]",
            "NodeId": 125677,
            "ProgramType": "ODPS_SQL",
            "RepeatInterval": 60
        }
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "The connection does not exist.",
    "Success": true
}
```


Error codes

For a list of error codes, visit the API Error Center.

7.42. RunTriggerNode

Runs a manually triggered node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	RunTriggerNode	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
NodeId	Long	Yes	10000011	The ID of the manually triggered node. You can call the ListNodes operation to query the ID.
CycleTime	Long	Yes	1606200230105	The timestamp of the scheduled time to run the manually triggered node.
BizDate	Long	Yes	1606200230105	The data timestamp of the manually triggered node instance.
AppId	Long	Yes	10001	The ID of the DataWorks workspace to which the manually triggered node belongs. You can call the ListProjects operation to query the ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	9BA675F1-F848-4752-A6E3-92ABA0616005	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful. • true: The request is successful. • false: The request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RunTriggerNode
&AppId=10001
&BizDate=1606200230105
&CycleTime=1606200230105
&NodeId=10000011
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>9BA675F1-F848-4752-A6E3-92ABA0616005</RequestId>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "9BA675F1-F848-4752-A6E3-92ABA0616005",
    "Success": true
}
```

Error codes

Http status code	Error code	Error message	Description
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	The error message returned because you are not authorized to access the resources.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the maximum number of requests for the resource has been reached.
429	Throttling.Api.Risk	The request for this resource has exceeded your daily available limit.	The error message returned because the maximum number of requests per day for the resource has been reached.
429	Throttling.Resource	You have reached the limit for the resource. Please contact us by submitting a ticket.	The error message returned because your quota for this resource has reached the upper limit. Submit a ticket for help.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.

Http status code	Error code	Error message	Description
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.
500	Forbidden.Not.Server	The dataworksAPI service is not available in this area. Please try it in another area.	The error message returned because the DataWorks API is unavailable in this region. Try another region.
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.

For a list of error codes, visit the API Error Center.

7.43. GetNodeParents

Queries the ancestor nodes of a node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetNodeParents	The operation that you want to perform.
NodeId	Long	Yes	12345456211234	The ID of the node. You can go to the Operation Center page in the DataWorks console to view the ID.

Parameter	Type	Required	Example	Description
ProjectEnv	String	Yes	PROD	The environment of the DataWorks workspace. Valid values: PROD and DEV. The value PROD indicates a production environment, and the value DEV indicates a development environment.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information of the ancestor nodes.
Nodes	Array of Nodes		The ancestor nodes returned.
BaselineId	Long	1244564565	The ID of the baseline.
CronExpress	String	00 00 * * * *	The cron expression. The cron expression is used to run an auto triggered node.
NodeId	Long	1244564565	The ID of the node.
NodeName	String	test_Node	The name of the node.
OwnerId	String	12312456134125132 1	The ID of the Alibaba Cloud account used by the node owner.
Priority	Integer	3	The priority of the node. Valid values: 1 to 8. A larger value indicates a higher priority.
ProgramType	String	ODPS_SQL	The type of the node.

Parameter	Type	Example	Description
ProjectId	Long	12315412412	The ID of the workspace to which the node belongs.
Repeatability	Boolean	true	Indicates whether the node can be rerun if the running of the node fails. Valid values: • true: indicates that the node can be rerun. • false: indicates that the node cannot be rerun.
SchedulerType	String	NORMAL	The scheduling type of the node. Valid values: • NORMAL: indicates that the node is a normal auto triggered node. • MANUAL: indicates that the node is a manually triggered node. ○ PAUSE: indicates that the node is a paused node. Paused nodes are started as scheduled but the system sets the status of the nodes to failed when it starts to run them. • SKIP: indicates that the node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
ErrorCode	String	1060010000000	The error code returned.
ErrorMessage	String	err	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	asdfasdfas-adfasdf-asfas-dfasdf-asdf	The ID of the request. You can troubleshoot issues based on the ID.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetNodeParents
&NodeId=12345456211234
&ProjectEnv=PROD
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>asdfasdfas-adfasdf-asfas-dfasdf-asdf</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <Nodes>
        <BaselineId>1244564565</BaselineId>
        <Repeatability>true</Repeatability>
        <OwnerId>123124561341251321</OwnerId>
        <NodeName>test_Node</NodeName>
        <Priority>3</Priority>
        <ProjectId>12315412412</ProjectId>
        <NodeId>1244564565</NodeId>
        <ProgramType>ODPS_SQL</ProgramType>
        <SchedulerType>NORMAL</SchedulerType>
        <CronExpress>00 00 * * * *</CronExpress>
    </Nodes>
</Data>
<ErrorCode>1060010000000</ErrorCode>
<ErrorMessage>err</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "asdfasdfas-adfasdf-asfas-dfasdf-asdf",
    "HttpStatusCode": 200,
    "Data": {
        "Nodes": {
            "BaselineId": 1244564565,
            "Repeatability": true,
            "OwnerId": 123124561341251330,
            "NodeName": "test_Node",
            "Priority": 3,
            "ProjectId": 12315412412,
            "NodeId": 1244564565,
            "ProgramType": "ODPS_SQL",
            "SchedulerType": "NORMAL",
            "CronExpress": "00 00 * * * *"
        }
    },
    "ErrorCode": 1060010000000,
    "ErrorMessage": "err",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.44. GetNodeChildren

Queries the descendant nodes of a node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetNodeChildren	The operation that you want to perform. Set the value to **GetNodeChildren**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ProjectEnv	String	Yes	PROD	The environment of the workspace. Valid values: PROD and DEV. The value PROD indicates the production environment, and the value DEV indicates the development environment.
NodeId	Long	Yes	123456878	The ID of the node. You can go to the Operation Center page in the DataWorks console to view the ID.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.

Parameter	Type	Example	Description
RequestId	String	adsfasdf-adf-asdf-asdf-asdfadfasdd	The ID of the request. You can use the ID to troubleshoot issues.
ErrorMessage	String	err	The error message returned.
ErrorCode	String	1060010000000	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The information of the descendant nodes.
Nodes	Array of Nodes		The descendant nodes returned.
SchedulerType	String	NORMAL	The scheduling type of the node. Valid values: • NORMAL: indicates that the node is an auto triggered node. • MANUAL: indicates that node is a manually triggered node. • PAUSE: indicates that the node is a paused node. Paused nodes are started as scheduled but the system sets the status of the nodes to failed when it starts to run them. • SKIP: indicates that the node is a dry-run node. Dry-run nodes are started as scheduled but the system sets the status of the nodes to successful when it starts to run them.
BaselineId	Long	12345656	The ID of the baseline.
Repeatability	Boolean	true	Indicates whether the node can be rerun if the node fails to run. Valid values: • true: indicates that the node can be rerun. • false: indicates that the node cannot be rerun.
NodeName	String	test_Node	The name of the node.

Parameter	Type	Example	Description
ProjectId	Long	12315412412	The ID of the workspace to which the node belongs.
ProgramType	String	ODPS_SQL	The type of the node.
Priority	Integer	3	The priority of the node. Valid values: 1 to 8. A large value indicates a high priority.
OwnerId	String	12312456134125132 1	The ID of the Alibaba Cloud account used by the node owner.
CronExpress	String	00 00 * * * *	The cron expression. Cron expressions are used to run auto triggered nodes.
NodeId	Long	1244564565	The ID of the node.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetNodeChildren
&ProjectEnv=PROD
&NodeId=123456878
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetNodeChildrenResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>adsfasdf-adf-asdf-asdf-asdfadfasdd</RequestId>
    <ErrorMessage>err</ErrorMessage>
    <ErrorCode>1060010000000</ErrorCode>
    <Success>true</Success>
    <Data>
        <Nodes>
            <SchedulerType>NORMAL</SchedulerType>
            <BaselineId>12345656</BaselineId>
            <Repeatability>true</Repeatability>
            <NodeName>test_Node</NodeName>
            <ProjectId>12315412412</ProjectId>
            <ProgramType>ODPS_SQL</ProgramType>
            <Priority>3</Priority>
            <OwnerId>123124561341251321</OwnerId>
            <CronExpress>00 00 * * * * </CronExpress>
            <NodeId>1244564565</NodeId>
        </Nodes>
    </Data>
</GetNodeChildrenResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "adsfasdf-adf-asdf-asdf-asdfadfasdd",
  "ErrorMessage" : "err",
  "ErrorCode" : 1060010000000,
  "Success" : true,
  "Data" : {
    "Nodes" : {
      "SchedulerType" : "NORMAL",
      "BaselineId" : 12345656,
      "Repeatability" : true,
      "NodeName" : "test_Node",
      "ProjectId" : 12315412412,
      "ProgramType" : "ODPS_SQL",
      "Priority" : 3,
      "OwnerId" : 123124561341251330,
      "CronExpress" : "00 00 * * * *",
      "NodeId" : 1244564565
    }
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.45. UpdateNodeRunMode

Freezes or unfreezes a specific node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateNodeRunMode	The operation that you want to perform.
NodeId	Long	Yes	1234	The ID of the node. You can call the ListNodes operation to query the ID.
ProjectEnv	String	Yes	PROD	The environment where the node runs. Valid values: DEV and PROD. The value DEV indicates the development environment. The value PROD indicates the production environment.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
SchedulerType	Integer	Yes	0	The operation that you want to perform on the node. Valid values: • 0: indicates that you want to unfreeze the node. • 2: indicates that you want to freeze the node.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to obtain logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: indicates that the request is successful. • false: indicates that the request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateNodeRunMode
&NodeId=1234
&ProjectEnv=PROD
&RegionId=cn-shanghai
&SchedulerType=0
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "E6F0DBDD-5AD****",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.46. UpdateNodeOwner

Changes the owner of a specific node.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateNodeOwner	The operation that you want to perform.
NodeId	Long	Yes	1234	The ID of the node. You can call the ListNodes operation to query the ID.
ProjectEnv	String	Yes	PROD	The environment where the node runs. Valid values: DEV and PROD. The value DEV indicates the development environment. The value PROD indicates the production environment.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
UserId	String	Yes	19337906836551	The Alibaba Cloud account ID of the node owner. You can log on to the DataWorks console and move the pointer over the profile picture in the upper-right corner to view the ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to obtain logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: indicates that the request is successful. • false: indicates that the request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateNodeOwner
&NodeId=1234
&ProjectEnv=PROD
&RegionId=cn-shanghai
&UserId=19337906836551
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E6F0DBDD-5AD****</RequestId>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "E6F0DBDD-5AD****",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.47. UpdateWorkbenchEventResult

Returns the processing result sent by an extension after a process in Operation Center is blocked by the extension.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateWorkbenchEventResult	The operation that you want to perform. Set the value to **UpdateWorkbenchEventResult**.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
MessageId	String	Yes	03400b03-b721-4c34-8727-2d6884077091	The ID of the message received when the related extension point event is triggered after you enable message subscription by using the OpenEvent module.
ExtensionCode	String	Yes	58e95e2acd6f408e8707f1bf2591f9e9	The code of the extension.
CheckResult	String	Yes	FAIL	The check status of the extension point event. Valid values: OK and Fail. A value of OK indicates that the event passes the check. A value of FAIL indicates that the event fails to pass the check.
CheckResultTip	String	No	The SQL statement exceeds the maximum length.	The cause of the check failure.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0bc1ec92159376****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateWorkbenchEventResult
&MessageId=03400b03-b721-4c34-8727-2d6884077091
&ExtensionCode=58e95e2acd6f408e8707f1bf2591f9e9
&CheckResult=FAIL
&CheckResultTip=The SQL statement exceeds the maximum length.
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateWorkbenchEventResultResponse>
    <RequestId>0bc1ec92159376****</RequestId>
    <Success>true</Success>
</UpdateWorkbenchEventResultResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0bc1ec92159376****",
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.48. ListShiftPersonnels

Queries the on-duty engineers in a shift schedule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListShiftPersonnels	The operation that you want to perform. Set the value to **ListShiftPersonnels**.

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ShiftScheduleIdentifier	String	No	2ab6456ada634b2f938ee******9b45b	The unique identifier of the shift schedule.
UserType	String	No	ALL	The type of on-duty engineers that you want to query. Valid values: ALL, PRIMARY, BACKUP, and DESIGNATED_USER.
ShiftPersonUID	String	No	1933790****551	The ID of your Alibaba Cloud account. You can log on to the DataWorks console and move the pointer over the profile picture in the upper-right corner to obtain the ID.
BeginTime	Long	Yes	1593950832000	The time when the on-duty engineer starts a shift. Set the value to a UNIX timestamp.
EndTime	Long	Yes	1593950832000	The time when the on-duty engineer ends a shift. Set the value to a UNIX timestamp.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG	The ID of the request. You can use the ID to troubleshoot issues.
Paging	Object		The pagination data.
PageNumber	Integer	1	The page number of the returned page. Minimum value:1. Maximum value: 100. Default value: 1.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Integer	100	The total number of entries returned.
ShiftPersons	Array of ShiftPersons		The on-duty engineers in the shift schedule.
ShiftPersonUID	String	3726346****	The UID of the on-duty engineer.
ShiftPersonName	String	Bob	The name of the on-duty engineer.
BeginTime	Long	1593950832000	The time when the on-duty engineer starts the shift.
EndTime	Long	1593950832000	The time when the on-duty engineer ends the shift.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListShiftPersonnels
&ShiftScheduleIdentifier=2ab6456ada634b2f938ee******9b45b
&UserType=ALL
&ShiftPersonUID=1933790****551
&BeginTime=1593950832000
&EndTime=1593950832000
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListShiftPersonnelsResponse>
    <RequestId>0000-ABCD-EFG</RequestId>
    <Paging>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <ShiftPersons>
            <ShiftPersonUID>3726346****</ShiftPersonUID>
            <ShiftPersonName>Bob</ShiftPersonName>
            <StartLong>1593950832000</StartLong>
            <EndLong>1593950832000</EndLong>
        </ShiftPersons>
    </Paging>
</ListShiftPersonnelsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG",
  "Paging" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "ShiftPersons" : [ {
      "ShiftPersonUID" : "3726346****",
      "ShiftPersonName" : "Bob",
      "StartLong" : 1593950832000,
      "EndLong" : 1593950832000
    } ]
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

7.49. ListShiftSchedules

Queries shift schedules in Operation Center.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListShiftSchedules	The operation that you want to perform. Set the value to **ListShiftSchedules**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ShiftScheduleName	String	No	Keyword	The keyword used to perform a fuzzy search on shift schedules.
Owner	String	No	1933790683****	The ID of your Alibaba Cloud account. You can log on to the DataWorks console and move the pointer over the profile picture in the upper-right corner to obtain the ID.
PageSize	Integer	No	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
PageNumber	Integer	No	1	The number of the page to return. Minimum value:1. Maximum value: 100. Default value: 1.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E6F0DBDD-5AD****	The ID of the request. You can use the ID to query logs and troubleshoot issues.
Paging	Object		The pagination data.
PageNumber	Integer	1	The page number of the returned page. Minimum value:1. Maximum value: 100.
PageSize	Integer	10	The number of entries returned per page.

Parameter	Type	Example	Description
TotalCount	Integer	100	The total number of entries returned.
ShiftSchedules	Array of ShiftSchedules		The shift schedules.
ShiftScheduleIdentifier	String	2ab6456ada634b2f938ee******9b45b	The unique identifier of the shift schedule. You can use the identifier to query the on-duty engineers in the shift schedule.
ShiftScheduleName	String	Name	The name of the shift schedule.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListShiftSchedules
&ShiftScheduleName=Keyword
&Owner=1933790683****
&PageSize=10
&PageNumber=1
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListShiftSchedulesResponse>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <Paging>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <ShiftSchedules>
            <ShiftScheduleIdentifier>2ab6456ada634b2f938ee******9b45b</ShiftScheduleIdentifi
er>
            <ShiftScheduleName>Name</ShiftScheduleName>
        </ShiftSchedules>
    </Paging>
</ListShiftSchedulesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E6F0DBDD-5AD****",
  "Paging" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "ShiftSchedules" : [ {
      "ShiftScheduleIdentifier" : "2ab6456ada634b2f938ee******9b45b",
      "ShiftScheduleName" : "Name"
    } ]
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.Data Quality

8.1. UpdateQualityFollower

You can call this operation to update the subscription relationship of a UpdateQualityFollower.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	UpdateQualityFollower	The operation that you want to perform.
AlarmMode	Integer	Yes	2	Subscription Information: 1 indicates email, 2 indicates email and text message, 4 indicates DingTalk group chatbot, and 5 indicates DingTalk group chatbot @ all.
Follower	String	Required	1912232****	The subscriber.
FollowerId	Long	Yes	1234	The ID of the subscription.
ProjectName	String	Required	autotest	The name of the database engine or data source.
RegionId	String	Required	cn-shanghai	The ID of the region where your project resides.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the DQC rule has been changed.
ErrorCode	String	401	The error code.

Parameter	Type	Example	Description
ErrorMessage	String	You have no permission	The returned message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	576b9457-2cf5-4****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UpdateQualityFollower
&AlarmMode=2
&Follower=1912232****
&FollowerId=1234
&ProjectName=autotest
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>576b9457-2cf5-4****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<ErrorCode>401</ErrorCode>
<ErrorMessage>You have no permission</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "576b9457-2cf5-4****",
    "HttpStatusCode": 200,
    "Data": true,
    "ErrorCode": 401,
    "ErrorMessage": "You have no permission",
    "Success": true
}
```

Errors

For a list of error codes, visit the API Error Center.

8.2. UpdateQualityRule

Updates a monitoring rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateQualityRule	The operation that you want to perform.
BlockType	Integer	No	0	The strength of the monitoring rule. The strength of a monitoring rule indicates the importance of the rule. Valid values: • 1: indicates that the monitoring rule is a strong rule. • 0: indicates that the monitoring rule is a weak rule. You can specify whether a monitoring rule is a strong rule based on your business requirements. If a strong rule is used and an error alert is triggered, nodes are blocked.
EntityId	Long	No	123	The ID of the partition filter expression. You can call the ListQualityRules operation to obtain the ID of the partition filter expression.
Comment	String	No	Check the number of table rows.	The description of the monitoring rule.
Checker	Integer	Yes	9	The ID of the checker. You can call the ListQualityRules operation to obtain the ID of the checker.
ExpectValue	String	No	300	The expected value of the monitoring rule.

Parameter	Type	Required	Example	Description
Id	Long	Yes	1234	The ID of the monitoring rule. You can call the ListQualityRules operation to obtain the ID of the monitoring rule.
Trend	String	No	up	The trend of the monitoring result. Valid values: • up: increasing • down: decreasing • abs: absolute value
MethodName	String	Yes	table_count	The name of the method that is used to collect sample data, such as avg, count, sum, min, max, count_distinct, user_defined, table_count, table_size, table_dt_load_count, table_dt_refuseload_count, null_value, null_value/table_count, (table_count-count_distinct)/table_count, or table_count-count_distinct.
Operator	String	No	>	The comparison operator.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source. You can log on to the DataWorks console and go to the Workspace Management page to obtain the name.
Property	String	Yes	id	The name of the field to be monitored.
PropertyType	String	No	bigint	The data type of the field.
RuleType	Integer	No	0	The type of the monitoring rule. Valid values: • 0: The monitoring rule is created by the system. • 1: The monitoring rule is created by a user. • 2: The monitoring rule is a workspace-level rule.

Parameter	Type	Required	Example	Description
WhereCondition	String	No	dt=$[yyyymmdd]	The filter condition or custom SQL statement that is used for monitoring.
CriticalThreshold	String	No	10	The threshold for an error alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements. If a strong rule is used and an error alert is triggered, nodes are blocked.
WarningThreshold	String	No	5	The threshold for a warning alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements.
TemplateId	Integer	No	7	The ID of the monitoring template. You can call the ListQualityRules operation to obtain the ID of the monitoring template.
RegionId	String	No	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
RuleName	String	No	Table row check	The name of the monitoring rule.
PredictType	Integer	No	0	The category of the monitoring rule. Valid values: • 0: The monitoring rule is a statistical analysis rule. • 2: The monitoring rule is a dynamic threshold rule.

Parameter	Type	Required	Example	Description
OpenSwitch	Boolean	No	true	Specifies whether to enable the monitoring rule in the production environment. • true: The monitoring rule is triggered when the associated auto triggered node that generates the output data starts to run. • false: The monitoring rule is not triggered when the associated auto triggered node that generates the output data starts to run.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
Data	Boolean	true	Indicates whether the monitoring rule is updated.
ErrorMessage	String	You have no permission.	The error message.
RequestId	String	576b9457-2cf5-4****	The ID of the request. You can troubleshoot errors based on the ID.
ErrorCode	String	0	The error code.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample request

```
http(s)://[Endpoint]/?Action=UpdateQualityRule
&BlockType=0
&EntityId=123
&Comment=Check the number of table rows.
&Checker=9
&ExpectValue=300
&Id=1234
&Trend=up
&MethodName=table_count
&Operator=>
&ProjectName=autotest
&Property=id
&PropertyType=bigint
&RuleType=0
&WhereCondition=dt=$[yyyymmdd]
&CriticalThreshold=10
&WarningThreshold=5
&TemplateId=7
&RuleName=Table row check
&PredictType=0
&OpenSwitch=true
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateQualityRuleResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <RequestId>576b9457-2cf5-4****</RequestId>
    <ErrorCode>0</ErrorCode>
    <Success>true</Success>
</UpdateQualityRuleResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorMessage" : "You have no permission.",
  "RequestId" : "576b9457-2cf5-4****",
  "ErrorCode" : "0",
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.3. GetQualityRule

Queries the information of a monitoring rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetQualityRule	The operation that you want to perform. Set the value to **GetQualityRule**.
RuleId	Long	Yes	1234	The ID of the monitoring rule. You can call the ListQualityRules operation to query the ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	576b9457-2cf5-4****	The ID of the request.
ErrorMessage	String	You have no permission.	The error message returned.
ErrorCode	String	401	The error code returned.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The information of the monitoring rule.
BlockType	Integer	1	The strength of the monitoring rule. The strength of a monitoring rule indicates the importance of the rule. Valid values: • 1: indicates that the monitoring rule is a strong rule. • 0: indicates that the monitoring rule is a weak rule. You can specify whether a monitoring rule is a strong rule based on your business requirements. If a strong rule is used and an error alert is triggered, nodes are blocked.
OnDutyAccountName	String	test	The name of the Alibaba Cloud account that is used to configure the monitoring rule.
WarningThreshold	String	10	The threshold for a warning alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements.
Property	String	id	The field that is monitored. This field is a column name in the data source table that is monitored.
RuleType	Integer	0	The type of the monitoring rule.
Comment	String	Unique primary key verification	The description of the monitoring rule.
OnDuty	String	1822931****	The ID of the Alibaba Cloud account that is used to configure the monitoring rule.
Checker	Integer	9	The ID of the checker. The value of this parameter corresponds to the ID at the frontend and is converted from the ID of the primary key.

Parameter	Type	Example	Description
FixCheck	Boolean	true	Indicates whether the monitoring is performed based on a fixed value.
MethodId	Integer	8	The ID of the sampling method of the monitoring rule.
CriticalThreshold	String	20	The threshold for an error alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements. If a strong rule is used and an error alert is triggered, nodes are blocked.
PredictType	Integer	0	Indicates whether the threshold is a dynamic threshold. Valid values: • 0: The threshold is not a dynamic threshold. • 1: The threshold is a dynamic threshold.
TemplateName	String	SQL task table rows, 1,7, 30 days fluctuation test	The name of the monitoring template.
CheckerName	String	compared with a fixed value	The name of the checker.
RuleName	String	View fluctuations in a table	The name of the monitoring rule.
MethodName	String	table_count	The name of the method that is used to collect sample data, such as avg, count, sum, min, max, count_distinct, user_defined, table_count, table_size, table_dt_load_count, table_dt_refuseload_count, null_value, null_value/table_count, (table_count-count_distinct)/table_count, or table_count-count_distinct.
EntityId	Long	165523	The ID of the partition filter expression.
WhereCondition	String	id>10	The filter condition or custom SQL statement that is used for monitoring.

Parameter	Type	Example	Description
Operator	String	>=	The comparison operator of the monitoring rule.
ExpectValue	String	30	The expected value.
Trend	String	abs	The trend of the monitoring result.
TemplateId	Integer	7	The ID of the monitoring template.
Id	Long	123232	The ID of the monitoring rule.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetQualityRule
&RuleId=1234
&ProjectName=autotest
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetQualityRuleResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>576b9457-2cf5-4****</RequestId>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <ErrorCode>401</ErrorCode>
    <Success>true</Success>
    <Data>
        <BlockType>1</BlockType>
        <OnDutyAccountName>test</OnDutyAccountName>
        <WarningThreshold>10</WarningThreshold>
        <Property>id</Property>
        <RuleType>0</RuleType>
        <Comment>Unique primary key verification</Comment>
        <OnDuty>1822931****</OnDuty>
        <Checker>9</Checker>
        <FixCheck>true</FixCheck>
        <MethodId>8</MethodId>
        <CriticalThreshold>20</CriticalThreshold>
        <PredictType>0</PredictType>
        <TemplateName>SQL task table rows, 1,7, 30 days fluctuation test</TemplateName>
        <CheckerName>compared with a fixed value</CheckerName>
        <RuleName>View fluctuations in a table</RuleName>
        <MethodName>table_count</MethodName>
        <EntityId>165523</EntityId>
        <WhereCondition>id&gt;10</WhereCondition>
        <Operator>&gt;=</Operator>
        <ExpectValue>30</ExpectValue>
        <Trend>abs</Trend>
        <TemplateId>7</TemplateId>
        <Id>123232</Id>
    </Data>
</GetQualityRuleResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "576b9457-2cf5-4****",
  "ErrorMessage" : "You have no permission.",
  "ErrorCode" : 401,
  "Success" : true,
  "Data" : {
    "BlockType" : 1,
    "OnDutyAccountName" : "test",
    "WarningThreshold" : 10,
    "Property" : "id",
    "RuleType" : 0,
    "Comment": "Unique primary key verification",
    "OnDuty" : "1822931****",
    "Checker" : 9,
    "FixCheck" : true,
    "MethodId" : 8,
    "CriticalThreshold" : 20,
    "PredictType" : 0,
    "TemplateName" : "SQL task table rows, 1,7, 30 days fluctuation test",
    "CheckerName" : "compared with a fixed value",
    "RuleName": "View fluctuations in a table"
    "MethodName" : "table_count",
    "EntityId" : 165523,
    "WhereCondition" : "id&gt;10",
    "Operator" : "&gt;=",
    "ExpectValue" : 30,
    "Trend" : "abs",
    "TemplateId" : 7,
    "Id" : 123232
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.4. ListQualityRules

Queries monitoring rules based on a partition filter expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListQualityRules	The operation that you want to perform.
EntityId	Long	Yes	1234	The ID of the partition filter expression. You can call the GetQualityEntity operation to query the ID of the partition filter expression.
PageNumber	Integer	Yes	1	The number of the page to return.
PageSize	Integer	Yes	20	The number of entries to return on each page. Default value: 10. Maximum value: 20.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source. You can obtain the name from data source configurations.
RegionId	String	Yes	cn-shanghai	The ID of the region where DataWorks is activated. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The list of monitoring rules.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	20	The number of entries returned per page. Default value: 10. Maximum value: 100.
Rules	Array of Rules		The details of monitoring rules.

Parameter	Type	Example	Description
BlockType	Integer	0	The strength of the monitoring rule. The strength of monitoring rules indicates the importance of the rules. Valid values: • 1: The monitoring rule is a strong rule. • 0: The monitoring rule is a weak rule. You can specify whether a monitoring rule is a strong rule based on your business requirements. If a strong rule is used and a critical alert is reported, nodes are blocked.
CheckerId	Integer	7	The ID of the checker.
Comment	String	Monitoring rule for a table	The description of the monitoring rule.
CriticalThreshold	String	40	The threshold for a critical alert. The threshold indicates the deviation of monitoring results from expected values. You can customize this threshold based on your business requirements. If a strong rule is used and a critical alert is reported, nodes are blocked.
EntityId	Integer	1234	The ID of the partition filter expression.
ExpectValue	String	1000	The expected value of the monitoring rule.
FixCheck	Boolean	true	Indicates whether the monitoring rule is a strong rule. Valid values: • true: The monitoring rule is a strong rule. • false: The monitoring rule is not a strong rule.
HistoryCriticalThreshold	String	history max:80%,history min:50%	The historical threshold for a critical alert.
HistoryWarningThreshold	String	history max:40%,history min:10%	The historical threshold for a warning alert.
Id	Integer	1234	The ID of the monitoring rule.

Parameter	Type	Example	Description
MatchExpression	String	dt=$[yyyymmdd]	The partition filter expression.
MethodId	Integer	21	The ID of the sampling method of the monitoring rule.
MethodName	String	count/table_count	The method used to collect sample data, such as avg, count, sum, min, max, count_distinct, user_defined, table_count, table_size, table_dt_load_count, table_dt_refuseload_count, null_value, null_value/table_count, (table_count-count_distinct)/table_count, and table_count-count_distinct.
OnDuty	String	1912****	The ID of the Alibaba Cloud account that is used to configure the monitoring rule.
OnDutyAccountName	String	test	The name of the Alibaba Cloud account that is used to configure the monitoring rule.
ProjectName	String	autotest	The name of the compute engine instance or data source.
Property	String	id	The name of the field that is monitored.
PropertyKey	String	table_count	The field that is used to associate with monitoring rules at the frontend. This parameter can be ignored.
RuleCheckerRelationId	Integer	132323	The ID of the node that is associated with the partition filter expression.
RuleName	String	test	The name of the rule.
RuleType	Integer	0	The type of the monitoring rule. Valid values: • 0: The monitoring rule is created by the system. • 1: The monitoring rule is created by a user. • 2: The monitoring rule is a project-level rule.

Parameter	Type	Example	Description
TableName	String	dual	The name of the table.
TemplateId	Integer	7	The ID of the rule template.
TemplateName	String	Fluctuations of the number of table rows on an SQL node compared with that on the previous day, that of seven days ago, and that of 30 days ago	The name of the rule template.
Trend	String	abs	The trend of the monitoring results.
WarningThreshold	String	10	The threshold for a warning alert. The threshold indicates the deviation of monitoring results from expected values. You can customize this threshold based on your business requirements.
TotalCount	Long	400	The total number of returned entries.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	You have no permission.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	38cbdef0-f6cf-49****	The ID of the request. You can use the ID to troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListQualityRules
&EntityId=1234
&PageNumber=1
&PageSize=20
&ProjectName=autotest
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>38cbdef0-f6cf-49****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TotalCount>400</TotalCount>
    <PageSize>20</PageSize>
    <PageNumber>1</PageNumber>
    <Rules>
        <HistoryCriticalThreshold>history max:80%,history min:50%</HistoryCriticalThreshold>
        <HistoryWarningThreshold>history max:40%,history min:10%</HistoryWarningThreshold>
        <RuleCheckerRelationId>132323</RuleCheckerRelationId>
        <ExpectValue>1000</ExpectValue>
        <ProjectName>autotest</ProjectName>
        <WarningThreshold>10</WarningThreshold>
        <OnDuty>1912****</OnDuty>
        <MatchExpression>dt=$[yyyymmdd]</MatchExpression>
        <MethodId>21</MethodId>
        <TemplateName>Fluctuations of the number of table rows on an SQL node compared with
that on the previous day, that of seven days ago, and that of 30 days ago</TemplateName>
        <MethodName>count/table_count</MethodName>
        <Property>id</Property>
        <RuleName>test</RuleName>
        <TemplateId>7</TemplateId>
        <Comment>Monitoring rule for a table</Comment>
        <CriticalThreshold>40</CriticalThreshold>
        <Trend>abs</Trend>
        <RuleType>0</RuleType>
        <CheckerId>7</CheckerId>
        <EntityId>1234</EntityId>
        <TableName>dual</TableName>
        <FixCheck>true</FixCheck>
        <BlockType>0</BlockType>
        <OnDutyAccountName>test</OnDutyAccountName>
        <Id>1234</Id>
        <PropertyKey>table_count</PropertyKey>
    </Rules>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>You have no permission.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "38cbdef0-f6cf-49****",
    "HttpStatusCode": 200,
    "Data": {
        "TotalCount": 400,
        "PageSize": 20,
        "PageNumber": 1,
        "Rules": {
            "HistoryCriticalThreshold": "history max:80%,history min:50%",
            "HistoryWarningThreshold": "history max:40%,history min:10%",
            "RuleCheckerRelationId": 132323,
            "ExpectValue": 1000,
            "ProjectName": "autotest",
            "WarningThreshold": 10,
            "OnDuty": "1912****",
            "MatchExpression": "dt=$[yyyymmdd]",
            "MethodId": 21,
            "TemplateName": "Fluctuations of the number of table rows on an SQL node compare
d with that on the previous day, that of seven days ago, and that of 30 days ago",
            "MethodName": "count/table_count",
            "Property": "id",
            "RuleName": "test",
            "TemplateId": 7,
            "Comment": "Monitoring rule for a table",
            "CriticalThreshold": 40,
            "Trend": "abs",
            "RuleType": 0,
            "CheckerId": 7,
            "EntityId": 1234,
            "TableName": "dual",
            "FixCheck": true,
            "BlockType": 0,
            "OnDutyAccountName": "test",
            "Id": 1234,
            "PropertyKey": "table_count"
        }
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "You have no permission.",
    "Success": true
}
```


Error codes

For a list of error codes, visit the API Error Center.

8.5. CreateQualityRule

Call CreateQualityRule to create a quality monitoring rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	CreateQualityRule	The operation that you want to perform.
BlockType	Integer	Yes	0	Rule strength: 0 indicates weak rules and 1 indicates strong rules.
Checker	Integer	Yes	9	The ID of the Checker.
EntityId	Long	Yes	15224	The ID of the partition filter expression.
MethodName	String	Required	count/table_count	The sampling party. If you select custom SQL, the value of this parameter is user_define.
PredictType	Integer	Yes	0	Dynamic threshold: 0 indicates a non-dynamic threshold, and 1 indicates a dynamic threshold rule.
ProjectName	String	Required	autotest	The name of the database engine or data source.
RegionId	String	Required	cn-shanghai	The ID of the region where your project resides.
RuleName	String	Required	1234	The name of the rule.
RuleType	Integer	Yes	0	The rule type. Valid values: 0, 1, and 2. A value of 0 indicates system-defined rules, a value of 1 indicates user-defined rules, and a value of 2 indicates project-specific rules.
Comment	String	No	Verify the test result	The description of the rule.
ExpectValue	String	No	0	The expected value of the checker.

Parameter	Type	Required	Example	Description
Trend	String	No	abs	The trend of the expected value.
Operator	String	No	>	The comparison operator.
Property	String	No	table_id	The field of the rule. If a table-level check is performed, the number of rows is table_count and the size is the table_size field.
PropertyType	String	No	bigint	The type of the field. Valid values: table level and bigint.
WhereCondition	String	No	table_id>1	The filtering condition. Write an SQL SELECT statement to specify the filtering condition.
CriticalThreshold	String	No	20	The warning threshold.
WarningThreshold	String	No	10	The error threshold.
TemplateId	Integer	No	7	The ID of the launch template.

Response parameters

Parameter	Type	Example	Description
Data	String	12345	The ID of the rule.
ErrorCode	String	401	The error code.
ErrorMessage	String	You have no permission.	The returned message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	ecb967ec-c137-48****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateQualityRule
&BlockType=0
&Checker=9
&EntityId=15224
&MethodName=count/table_count
&PredictType=0
&ProjectName=autotest
&RegionId=cn-shanghai
&RuleName=1234
&RuleType=0
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>ecb967ec-c137-48****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>1234</Data>
<ErrorCode>401</ErrorCode>
<ErrorMessage>You have no permission. </ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "ecb967ec-c137-48****",
    "HttpStatusCode": 200,
    "Data": 1234,
    "ErrorCode": 401,
    "ErrorMessage": "You have no permission.",
    "Success": true
}
```

Errors

For a list of error codes, visit the API Error Center.

8.6. DeleteQualityFollower

Deletes a subscriber of a partition filter expression. The deleted subscriber no longer receives notifications even if a subscribed monitoring rule of Data Quality is triggered.

In Data Quality, you must configure monitoring rules based on a partition filter expression. Data Quality uses these rules to detect changes in source data and dirty data generated during the process of extract, transformation, load (ETL). Thereby, Data Quality automatically blocks the nodes that involve dirty data to stop dirty data from spreading downstream. This prevents nodes from producing unexpected dirty data that affects normal use and business decisions. You can go to the Manage Subscriptions page to add subscribers for a partition filter expression. When the monitoring rule described by the partition filter expression is triggered, the subscribers can receive notifications and troubleshoot errors in a timely manner. For more information, see Configure monitoring rules for MaxCompute.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteQualityFollower	The operation that you want to perform.
ProjectName	String	Yes	autotest	The name of the compute engine or data source for which the partition filter expression is configured. You can log on to the DataWorks console and go to the Monitoring Rules page of Data Quality to obtain the name.
FollowerId	Long	Yes	1234	The ID of the subscription relationship between the partition filter expression and the subscriber. You can call the GetQualityFollower operation to obtain the ID of the subscription relationship.
RegionId	String	Yes	cn-shanghai	The ID of the region in which the workspace that you want to manage resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	Boolean	true	Indicates whether the subscriber was successfully deleted. Valid values: • true: The subscriber was successfully deleted. • false: The subscriber failed to be deleted. You can troubleshoot errors based on the error message returned.
ErrorMessage	String	You have no permission.	The error message returned when the subscriber failed to be deleted.
RequestId	String	6d739ef6-098a-47****	The ID of the request. You can use the ID to troubleshoot errors.
ErrorCode	String	401	The error code returned.
Success	Boolean	true	Indicates whether the request was successful. Valid values: • true: The request was successful. • false: The request failed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteQualityFollower
&ProjectName=autotest
&FollowerId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteQualityFollowerResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <RequestId>6d739ef6-098a-47****</RequestId>
    <ErrorCode>401</ErrorCode>
    <Success>true</Success>
</DeleteQualityFollowerResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorMessage" : "You have no permission.",
  "RequestId" : "6d739ef6-098a-47****",
  "ErrorCode" : 401,
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.7. DeleteQualityRule

Call DeleteQualityRule delete a rule.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	DeleteQualityRule	The operation that you want to perform.
ProjectName	String	Required	autotest	The name of the database engine or data source.

Parameter	Type	Required	Example	Description
RegionId	String	Required	cn-shanghai	The ID of the region where your project resides.
RuleId	Long	Yes	1234	The ID of the rule.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the deletion was successful.
ErrorCode	String	401	The error code.
ErrorMessage	String	You have no permission.	The returned message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	6d739ef6-098a-47****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteQualityRule
&ProjectName=autotest
&RegionId=cn-shanghai
&RuleId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>6d739ef6-098a-47****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<ErrorCode>401</ErrorCode>
<ErrorMessage>You have no permission. </ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "6d739ef6-098a-47****",
    "HttpStatusCode": 200,
    "Data": true,
    "ErrorCode": 401,
    "ErrorMessage": "You have no permission.",
    "Success": true
}
```

Errors

For a list of error codes, visit the API Error Center.

8.8. GetQualityFollower

Queries the subscribers of a partition filter expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetQualityFollower	The operation that you want to perform.
EntityId	Long	Yes	1234	The ID of the partition filter expression.
ProjectName	String	Yes	autotest	The name of the compute engine or data source.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Array of Follower		The list of subscribers.
AlarmMode	Integer	1	The notification method. Valid values: • 1: The subscriber receives alert notifications by using emails. • 2: The subscriber receives alert notifications by using emails and text messages. • 4: The subscriber receives alert notifications by using a DingTalk chatbot or a webhook URL. • 5: The DingTalk chatbot notifies all the members in the DingTalk group to which the subscriber belongs.
EntityId	String	1234	The ID of the partition filter expression.
Follower	String	1234	The subscriber for receiving alert notifications.
FollowerAccountName	String	test	The name of the Alibaba Cloud account that is used by the subscriber.
Id	Long	123	The ID of the subscription relationship.
ProjectName	String	autotest	The name of the compute engine or data source.
TableName	String	dual	The name of the partitioned table.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code returned.
ErrorMessage	String	You have no permission.	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	38cbdef0-f6cf-49	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetQualityFollower
&EntityId=1234
&ProjectName=autotest
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>38cbdef0-f6cf-49****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <EntityId>1234</EntityId>
    <TableName>dual</TableName>
    <ProjectName>autotest</ProjectName>
    <Follower>1822931104031845</Follower>
    <FollowerAccountName>test</FollowerAccountName>
    <Id>123</Id>
    <AlarmMode>1</AlarmMode>
</Data>
<ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
<ErrorMessage>You have no permission.</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "38cbdef0-f6cf-49",
    "HttpStatusCode": 200,
    "Data": {
        "EntityId": 1234,
        "TableName": "dual",
        "ProjectName": "autotest",
        "Follower": 1822931104031845,
        "FollowerAccountName": "test",
        "Id": 123,
        "AlarmMode": 1
    },
    "ErrorCode": "Invalid.Tenant.ConnectionNotExists",
    "ErrorMessage": "You have no permission.",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.9. CreateQualityFollower

Creates CreateQualityFollower a subscriber to a partition expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	CreateQualityFollower	The operation that you want to perform.
AlarmMode	Integer	Yes	1	You can subscribe to anti-bot instances by mail, DingTalk (1, 2, and 4), or 5 (DingTalk chatbot @ ALL).
EntityId	Long	Yes	12345	The ID of the partition filter expression.
Follower	String	Required	123	The account ID of the subscriber.
ProjectName	String	Required	autotest	The name of the database engine or data source.
RegionId	String	Required	cn-shanghai	The ID of the region where your project resides.

Response parameters

Parameter	Type	Example	Description
Data	Integer	12345	The ID of the new subscription.
ErrorCode	String	401	The error code.
ErrorMessage	String	You have no permission.	The returned message.
HttpStatusCode	Integer	200	Bad Request message.

Parameter	Type	Example	Description
RequestId	String	ecb967ec-c137-48****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateQualityFollower
&AlarmMode=1
&EntityId=12345
&Follower=123
&ProjectName=autotest
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>ecb967ec-c137-48****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>12345</Data>
<ErrorCode>401</ErrorCode>
<ErrorMessage>You have no permission. </ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "ecb967ec-c137-48****",
    "HttpStatusCode": 200,
    "Data": 12345,
    "ErrorCode": 401,
    "ErrorMessage": "You have no permission.",
    "Success": true
}
```

Errors

For a list of error codes, visit the API Error Center.

8.10. DeleteQualityEntity

Deletes a partition expression from a DeleteQualityEntity.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	DeleteQualityEntity	The operation that you want to perform.
EntityId	Long	Yes	1234	The ID of the partition filter expression.
EnvType	String	Required	ODPS	The engine or data source type.
ProjectName	String	Required	autotest	The name of the database engine or data source.
RegionId	String	Required	cn-shanghai	The ID of the region where your project resides.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The DeleteQualityEntity of the response after the operation is called.
ErrorCode	String	401	The error code.
ErrorMessage	String	You have no permission.	The returned message.
HttpStatusCode	Integer	200	Bad Request message.
RequestId	String	ecb967ec-c137-48****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteQualityEntity
&EntityId=1234
&EnvType=ODPS
&ProjectName=autotest
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>ecb967ec-c137-48****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<ErrorCode>401</ErrorCode>
<ErrorMessage>You have no permission. </ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "ecb967ec-c137-48****",
    "HttpStatusCode": 200,
    "Data": true,
    "ErrorCode": 401,
    "ErrorMessage": "You have no permission.",
    "Success": true
}
```

Errors

For a list of error codes, visit the API Error Center.

8.11. GetQualityEntity

Queries the information about a partition filter expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetQualityEntity	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source. You can obtain the name from data source configurations.
TableName	String	Yes	dual	The name of the partitioned table. You can call the GetMetaTablePartition operation to obtain the name.
EnvType	String	Yes	odps	The type of the compute engine instance or data source.
MatchExpression	String	No	dt=$[yyyymmdd]	The partition filter expression.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	6d739ef6-098a-47****	The ID of the request.
ErrorMessage	String	You have no permission.	The error message returned.
ErrorCode	String	401	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Array of EntityDto		The information about the partition filter expression.

Parameter	Type	Example	Description
RelativeNode	String	[{"projectName":"xc_DP****","nodeId":7000026****}]	The information about the node with which the partition filter expression is associated. The information includes the following items: • ProjectName: the name of the workspace to which the node belongs. • NodeID: the ID of the node.
OnDutyAccountName	String	test	The name of the Alibaba Cloud account that is used to configure the partition filter expression.
Task	Integer	0	The node.
TableName	String	test_dqc_de****	The name of the partitioned table.
Followers	String	1822931****	The ID of the Alibaba Cloud account that is used to receive alert notifications.
OnDuty	String	1822931****	The ID of the Alibaba Cloud account that is used to configure the partition filter expression.
MatchExpression	String	dt=$[yyyymmdd-1]	The partition filter expression.
CreateTime	Long	1593964800000	The time when the partition filter expression was created.
ProjectName	String	autotest	The name of the compute engine instance or data source.
HasRelativeNode	Boolean	true	Indicates whether the partition filter expression is associated with a node. Valid values: • true: The partition filter expression is associated with a node. • false: The partition filter expression is not associated with a node.
EnvType	String	odps	The type of the compute engine instance or data source.

Parameter	Type	Example	Description
EntityLevel	Integer	0	The level of the partition filter expression. Valid values: • 0: The partition filter expression is at the SQL level. This indicates that the system checks data quality after each SQL statement is executed. • 1: The partition filter expression is at the node level. This indicates that the system checks data quality after all the SQL statements for a node are executed.
ModifyUser	String	1822931****	The ID of the Alibaba Cloud account that is used to modify the partition filter expression.
Sql	Integer	0	Indicates that the partition filter expression is at the SQL level.
Id	Long	4003918	The ID of the partition filter expression.
ModifyTime	Long	1593964800000	The time when the partition filter expression was modified.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetQualityEntity
&ProjectName=autotest
&TableName=dual
&EnvType=odps
&MatchExpression=dt=$[yyyymmdd]
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetQualityEntityResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>6d739ef6-098a-47****</RequestId>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <ErrorCode>401</ErrorCode>
    <Success>true</Success>
    <Data>
        <RelativeNode>[{"projectName":"xc_DP****","nodeId":7000026****}]</RelativeNode>
        <OnDutyAccountName>test</OnDutyAccountName>
        <Task>0</Task>
        <TableName>test_dqc_de****</TableName>
        <Followers>1822931****</Followers>
        <OnDuty>1822931****</OnDuty>
        <MatchExpression>dt=$[yyyymmdd-1]</MatchExpression>
        <CreateTime>1593964800000</CreateTime>
        <ProjectName>autotest</ProjectName>
        <HasRelativeNode>true</HasRelativeNode>
        <EnvType>odps</EnvType>
        <EntityLevel>0</EntityLevel>
        <ModifyUser>1822931****</ModifyUser>
        <Sql>0</Sql>
        <Id>4003918</Id>
        <ModifyTime>1593964800000</ModifyTime>
    </Data>
</GetQualityEntityResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "6d739ef6-098a-47****",
  "ErrorMessage" : "You have no permission.",
  "ErrorCode" : 401,
  "Success" : true,
  "Data" : {
    "RelativeNode" : "[{\"projectName\":\"xc_DP****\",\"nodeId\":7000026****}]",
    "OnDutyAccountName" : "test",
    "Task" : 0,
    "TableName" : "test_dqc_de****",
    "Followers" : "1822931****",
    "OnDuty" : "1822931****",
    "MatchExpression" : "dt=$[yyyymmdd-1]",
    "CreateTime" : 1593964800000,
    "ProjectName" : "autotest",
    "HasRelativeNode" : true,
    "EnvType" : "odps",
    "EntityLevel" : 0,
    "ModifyUser" : "1822931****",
    "Sql" : 0,
    "Id" : 4003918,
    "ModifyTime" : 1593964800000
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.12. CreateQualityEntity

Creates a CreateQualityEntity partition expression for a Data Quality.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Required	CreateQualityEntity	The operation that you want to perform.

Parameter	Type	Required	Example	Description
EntityLevel	Integer	Yes	0	Valid values: 0 (corrected when SQl is completed) and 1 (corrected when task is completed).
EnvType	String	Required	ODPS	The engine or data source type.
MatchExpression	String	Required	dt=$[yyyymmdd]	The partition expression.
ProjectName	String	Required	autotest	The name of the maxcompute project or data source.
RegionId	String	Required	cn-shanghai	The ID of the region where the request is located.
TableName	String	Required	dual	The name of the table.

Response parameters

Parameter	Type	Example	Description
Data	Integer	12345	The ID of the partition expression.
ErrorCode	String	401	The error code.
ErrorMessage	String	Your project is not relative with your account.	The returned message.
HttpStatusCode	Integer	200	The HTTP request error codes.
RequestId	String	011e1231u3****	The ID of the request.
Success	Boolean	true	Indicates whether the call is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateQualityEntity
&EntityLevel=0
&EnvType=ODPS
&MatchExpression=dt=$[yyyymmdd]
&ProjectName=autotest
&RegionId=cn-shanghai
&TableName=dual
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>011e1231u3****</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>12345</Data>
<ErrorCode>401</ErrorCode>
<ErrorMessage>Your project is not relative with your account. </ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "011e1231u3****",
    "HttpStatusCode": 200,
    "Data": 12345,
    "ErrorCode": 401,
    "ErrorMessage": "Your project is not relative with your account.",
    "Success": true
}
```

Errors

For a list of error codes, visit the API Error Center.

8.13. CreateQualityRelativeNode

Associates a node with a partition filter expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateQualityRelativeNode	The operation that you want to perform. Set the value to **CreateQualityRelativeNode**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
EnvType	String	Yes	ODPS	The type of the compute engine instance or data source.
MatchExpression	String	Yes	dt=$[yyyymmdd]	The partition filter expression.
NodeId	Long	Yes	12321	The ID of the node.
ProjectId	Long	Yes	123	The ID of the workspace.
TargetNodeProjectName	String	Yes	autotest	The name of the workspace to which the node to be associated with the partition filter expression belongs.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source.
TableName	String	Yes	dual	The name of the table.
TargetNodeProjectId	Long	Yes	1234	The ID of the workspace to which the node to be associated with the partition filter expression belongs.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the node is associated with the partition filter expression.
ErrorMessage	String	You have no permission.	The error message.
RequestId	String	ecb967ec-c137-48****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	401	The error code.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateQualityRelativeNode
&EnvType=ODPS
&MatchExpression=dt=$[yyyymmdd]
&NodeId=12321
&ProjectId=123
&TargetNodeProjectName=autotest
&ProjectName=autotest
&TableName=dual
&TargetNodeProjectId=1234
&<Common request parameters>
```

Sample responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateQualityRelativeNodeResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <RequestId>ecb967ec-c137-48****</RequestId>
    <Success>true</Success>
    <ErrorCode>401</ErrorCode>
</CreateQualityRelativeNodeResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorMessage" : "You have no permission.",
  "RequestId" : "ecb967ec-c137-48****",
  "Success" : true,
  "ErrorCode" : 401
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.14. DeleteQualityRelativeNode

Disassociates a node from a partition filter expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteQualityRelativeNode	The operation that you want to perform. Set the value to **DeleteQualityRelativeNode**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
EnvType	String	Yes	ODPS	The type of the compute engine instance or data source.
MatchExpression	String	Yes	dt=$[yyyymmdd]	The partition filter expression.
NodeId	Long	Yes	156234	The ID of the node.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	12345	The ID of the workspace.
TargetNodeProjectName	String	Yes	autotest	The name of the workspace to which the node associated with the partition filter expression belongs.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source.
TableName	String	Yes	dual	The name of the table that is generated by the node.
TargetNodeProjectId	Long	Yes	12345	The ID of the workspace to which the node associated with the partition filter expression belongs.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
Data	Boolean	true	Indicates whether the node is disassociated from the partition filter expression.
ErrorMessage	String	You have no permission.	The error message returned.
RequestId	String	6d739ef6-098a-47****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	401	The error code returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteQualityRelativeNode
&EnvType=ODPS
&MatchExpression=dt=$[yyyymmdd]
&NodeId=156234
&ProjectId=12345
&TargetNodeProjectName=autotest
&ProjectName=autotest
&TableName=dual
&TargetNodeProjectId=12345
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteQualityRelativeNodeResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <RequestId>6d739ef6-098a-47****</RequestId>
    <Success>true</Success>
    <ErrorCode>401</ErrorCode>
</DeleteQualityRelativeNodeResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorMessage" : "You have no permission.",
  "RequestId" : "6d739ef6-098a-47****",
  "Success" : true,
  "ErrorCode" : 401
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.15. ListQualityResultsByRule

Queries monitoring results after the data quality of a data source or a compute engine instance is monitored based on monitoring rules.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListQualityResultsByRule	The operation that you want to perform.
RuleId	Integer	Yes	152322134	The ID of the monitoring rule. You can use the ID and information such as a partition filter expression to perform a joint query.
StartDate	String	Yes	2020-09-20 00:00:00	The beginning of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format. This parameter is used together with the EndDate parameter. The interval between the time specified by this parameter and the time specified by the EndDate parameter cannot exceed 7 days.
EndDate	String	Yes	2020-09-22 00:00:00	The end of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format. This parameter is used together with the StartDate parameter. The interval between the time specified by this parameter and the time specified by the StartDate parameter cannot exceed 7 days.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
PageNumber	Integer	Yes	1	The number of the page to return.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source for which data quality is monitored.

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-hangzhou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
ErrorMessage	String	You have no permission.	The error message returned.
RequestId	String	CBA58543-00D4-41****	The ID of the request.
ErrorCode	String	401	The error code returned.
Success	Boolean	true	Indicates whether the request is successful.
Data	Object		The data structure of the monitoring results returned.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Long	200	The total number of entries returned.
RuleChecks	Array of RuleChecks		The monitoring results returned.

Parameter	Type	Example	Description
BlockType	Integer	1	The type of the monitoring rule. The type of a monitoring rule indicates the importance of the rule. Valid values: • 1: indicates that the monitoring rule is a strong rule. • 0: indicates that the monitoring rule is a weak rule. You can specify whether a monitoring rule is a strong rule based on your business requirements. If a strong rule is used and a critical alert is reported, nodes are blocked.
WarningThreshold	Float	0.1	The threshold for a warning alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements.
Property	String	type	The field of the rule attribute. This field is the column name of the data source table that is monitored.
TableName	String	dual	The name of the table that is monitored.
Comment	String	Description of the monitoring rule	The description of the monitoring rule.
CheckResultStatus	Integer	2	The status of the monitoring result.
TemplateName	String	Compare the Number of Unique Field Values Against Expectation	The name of the monitoring template.
CheckerName	String	fulx	The name of the checker.
RuleId	Integer	123421	The ID of the monitoring rule.

Parameter	Type	Example	Description
FixedCheck	Boolean	false	Indicates whether the monitoring is performed based on a fixed value. Valid values: • true: indicates that the monitoring is performed based on a fixed value. • false: indicates that the monitoring is performed based on a non-fixed value.
Op	String	>	The comparison operator.
UpperValue	Float	22200	The upper limit of the predicted result. The value of this parameter is automatically generated based on the threshold that you specified.
ActualExpression	String	ds=20200925	The partition in the monitored data source table.
ExternalId	String	123112232	The ID of the node.
TimeCost	String	10	The time that was taken to run the monitoring task.
Trend	String	up	The trend of the monitoring result.
ExternalType	String	CWF2	The type of the scheduling system. Only CWF scheduling systems are supported.
BizDate	Long	1600704000000	The date on which the business was performed. If the monitored business entity is offline data, the value is usually one day before the monitoring is performed.
CheckResult	Integer	2	The monitoring result.
ResultString	String	ResultString	The string of the monitoring result.
MatchExpression	String	ds=$[yyyymmdd]	The partition filter expression.

Parameter	Type	Example	Description
CheckerType	Integer	0	The type of the checker.
ProjectName	String	autotest	The name of the compute engine instance or data source for which data quality is monitored.
BeginTime	Long	1600704000000	The time when the monitoring started.
DateType	String	YMD	The type of the scheduling cycle. In most cases, the value of this parameter is YMD. This value indicates year, month, and day.
CriticalThreshold	Float	0.6	The threshold for a critical alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements. If a strong rule is used and a critical alert is reported, nodes are blocked.
IsPrediction	Boolean	false	Indicates whether the monitoring result is the same as the predicted result. Valid values: • true: indicates that the monitoring result is the same as the predicted result. • false: indicates that the monitoring result is different from the predicted result.
RuleName	String	Name of the monitoring rule	The name of the monitoring rule.
CheckerId	Integer	7	The ID of the checker.
DiscreteCheck	Boolean	true	Indicates whether the monitoring is discrete monitoring. Valid values: • true: indicates that the monitoring is discrete monitoring. • false: indicates that the monitoring is not discrete monitoring.
EndTime	Long	1600704000000	The time when the monitoring ended.

Parameter	Type	Example	Description
MethodName	String	max	The method used to collect sample data, such as avg, count, sum, min, max, count_distinct, user_defined, table_count, table_size, table_dt_load_count, table_dt_refuseload_count, null_value, null_value/table_count, (table_count-count_distinct)/table_count, or table_count-count_distinct.
LowerValue	Float	2344	The lower limit of the predicted result. The value of this parameter is automatically generated based on the threshold that you specified.
EntityId	Integer	14534343	The ID of the partition filter expression.
WhereCondition	String	type!='type2'	The filter condition of the monitoring rule.
ExpectValue	Float	90	The expected value.
TemplateId	Integer	5	The ID of the monitoring template.
TaskId	String	16008552981681a0d6****	The ID of the monitoring task.
Id	Integer	2231123	The ID of the primary key.
ReferenceValue	Array of ReferenceValue		The historical sample values.
DiscreteProperty	String	type1	The values of the sample field that are grouped by using the GROUP BY clause. For example, the values of the Gender field are grouped by using the GROUP BY clause. In this case, the values of DiscreteProperty are Male, Female, and null.

Parameter	Type	Example	Description
Value	Float	20	The sample value.
BizDate	String	1600704000000	The date on which the business was performed. If the monitored business entity is offline data, the value is usually one day before the monitoring is performed.
SingleCheckResult	Integer	2	The string of the monitoring result.
Threshold	Float	0.2	The threshold.
SampleValue	Array of SampleValue		The sample values.
DiscreteProperty	String	type2	The values of the sample field that are grouped by using the GROUP BY clause. For example, the values of the Gender field are grouped by using the GROUP BY clause. In this case, the values of DiscreteProperty are Male, Female, and null.
BizDate	String	1600704000000	The date on which the business was performed. If the monitored business entity is offline data, the value is usually one day before the monitoring is performed.
Value	Float	23	The sample value.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListQualityResultsByRule
&EndDate=2020-09-22 00:00:00
&PageNumber=1
&PageSize=10
&ProjectName=autotest
&RuleId=152322134
&StartDate=2020-09-20 00:00:00
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
```

```
Content-Type:application/xml
<ListQualityResultsByRuleResponse>
    <RequestId>CBA58543-00D4-41****</RequestId>
    <QualityResults>
        <TotalCount>200</TotalCount>
        <PageSize>10</PageSize>
        <PageNumber>1</PageNumber>
        <RuleChecks>
            <Op>&amp;gt;</Op>
            <TaskId>16008552981681a0d6****</TaskId>
            <EndTime>1600704000000</EndTime>
            <DiscreteCheck>true</DiscreteCheck>
            <CheckerName>fulx</CheckerName>
            <ExpectValue>90</ExpectValue>
            <ProjectName>autotest</ProjectName>
            <RuleId>123421</RuleId>
            <WarningThreshold>0.1</WarningThreshold>
            <WhereCondition>type!='type2'</WhereCondition>
            <BeginTime>1600704000000</BeginTime>
            <CheckResultStatus>2</CheckResultStatus>
            <MatchExpression>ds=$[yyyymmdd]</MatchExpression>
            <UpperValue>22200</UpperValue>
            <IsPrediction>false</IsPrediction>
            <CheckResult>2</CheckResult>
            <TemplateName>Compare the Number of Unique Field Values Against Expectation</Tem
plateName>
            <TimeCost>10</TimeCost>
            <FixedCheck>false</FixedCheck>
            <MethodName>max</MethodName>
            <ResultString>ResultString</ResultString>
            <Property>type</Property>
            <DateType>YMD</DateType>
            <BizDate>1600704000000</BizDate>
            <TemplateId>5</TemplateId>
            <RuleName>Name of the monitoring rule</RuleName>
            <Comment>Description of the monitoring rule</Comment>
            <CriticalThreshold>0.6</CriticalThreshold>
            <ExternalId>123112232</ExternalId>
            <Trend>up</Trend>
            <CheckerType>0</CheckerType>
            <ExternalType>CWF2</ExternalType>
            <CheckerId>7</CheckerId>
            <EntityId>14534343</EntityId>
            <TableName>dual</TableName>
            <BlockType>1</BlockType>
            <Id>2231123</Id>
            <ActualExpression>ds=20200925</ActualExpression>
            <LowerValue>2344</LowerValue>
        </RuleChecks>
        <RuleChecks>
            <SampleValue>
                <SingleCheckResult>2</SingleCheckResult>
                <Value>20</Value>
                <BizDate>1600704000000</BizDate>
                <DiscreteProperty>type1</DiscreteProperty>
```

```
                <Threshold>0.2</Threshold>
            </SampleValue>
            <SampleValue>
                <Value>23</Value>
                <BizDate>1600704000000</BizDate>
                <DiscreteProperty>type2</DiscreteProperty>
            </SampleValue>
            <ReferenceValue>
                <SingleCheckResult>2</SingleCheckResult>
                <Value>20</Value>
                <BizDate>1600704000000</BizDate>
                <DiscreteProperty>type1</DiscreteProperty>
                <Threshold>0.2</Threshold>
            </ReferenceValue>
            <ReferenceValue>
                <Value>23</Value>
                <BizDate>1600704000000</BizDate>
                <DiscreteProperty>type2</DiscreteProperty>
            </ReferenceValue>
        </RuleChecks>
    </QualityResults>
</ListQualityResultsByRuleResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CBA58543-00D4-41****",
  "QualityResults" : {
    "TotalCount" : 200,
    "PageSize" : 10,
    "PageNumber" : 1,
    "RuleChecks" : [ {
      "Op" : "&amp;gt;",
      "TaskId" : "16008552981681a0d6****",
      "EndTime" : 1600704000000,
      "DiscreteCheck" : true,
      "CheckerName" : "fulx",
      "ExpectValue" : 90,
      "ProjectName" : "autotest",
      "RuleId" : 123421,
      "WarningThreshold" : 0.1,
      "WhereCondition" : "type!='type2'",
      "BeginTime" : 1600704000000,
      "CheckResultStatus" : 2,
      "MatchExpression" : "ds=$[yyyymmdd]",
      "UpperValue" : 22200,
      "IsPrediction" : false,
      "CheckResult" : 2,
      "TemplateName": "Compare the Number of Unique Field Values Against Expectation",
      "TimeCost" : 10,
      "FixedCheck" : false,
      "MethodName" : "max",
```

```
      "ResultString" : "ResultString",
      "Property" : "type",
      "DateType" : "YMD",
      "BizDate" : 1600704000000,
      "TemplateId" : 5,
      "RuleName": "Name of the monitoring rule",
      "Comment": "Description of the monitoring rule",
      "CriticalThreshold" : 0.6,
      "ExternalId" : 123112232,
      "Trend" : "up",
      "CheckerType" : 0,
      "ExternalType" : "CWF2",
      "CheckerId" : 7,
      "EntityId" : 14534343,
      "TableName" : "dual",
      "BlockType" : 1,
      "Id" : 2231123,
      "ActualExpression" : "ds=20200925",
      "LowerValue" : 2344
    }, {
      "SampleValue" : [ {
        "SingleCheckResult" : 2,
        "Value" : 20,
        "BizDate" : 1600704000000,
        "DiscreteProperty" : "type1",
        "Threshold" : 0.2
      }, {
        "Value" : 23,
        "BizDate" : 1600704000000,
        "DiscreteProperty" : "type2"
      } ],
      "ReferenceValue" : [ {
        "SingleCheckResult" : 2,
        "Value" : 20,
        "BizDate" : 1600704000000,
        "DiscreteProperty" : "type1",
        "Threshold" : 0.2
      }, {
        "Value" : 23,
        "BizDate" : 1600704000000,
        "DiscreteProperty" : "type2"
      } ]
    } ]
  }
}
```


Error codes

For a list of error codes, visit the API Error Center.

8.16. ListQualityResultsByEntity

Queries the historical monitoring results based on a partition filter expression.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListQualityResultsByEntity	The operation that you want to perform. Set the value to **ListQualityResultsByEntity**.
EntityId	Integer	Yes	152322134	The ID of the partition filter expression. You can call the GetQualityEntity operation to query the ID of the partition filter expression.
StartDate	String	Yes	2020-09-20 00:00:00	The beginning of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format.
EndDate	String	Yes	2020-09-21 00:00:00	The end of the time range to query. Specify the time in the yyyy-MM-dd HH:mm:ss format.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
PageNumber	Integer	Yes	1	The number of the page to return.
ProjectName	String	Yes	autotest	The name of the compute engine instance or data source. You can obtain the name from data source configurations.
RegionId	String	No	cn-hangzhou	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code returned.
ErrorMessage	String	You have no permission.	The error message.
RequestId	String	CBA58543-00D4-41****	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	401	The error code returned.
Data	Object		The data structure of the monitoring results returned.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 100.
TotalCount	Long	50	The total number of entries returned.
RuleChecks	Array of RuleChecks		The monitoring results returned.
BlockType	Integer	0	The type of the monitoring rule. The type of a monitoring rule indicates the importance of the rule. Valid values: • 1: indicates that the monitoring rule is a strong rule. • 0: indicates that the monitoring rule is a weak rule. You can specify whether a monitoring rule is a strong rule based on your business requirements. If a strong rule is used and a critical alert is reported, nodes are blocked.
WarningThreshold	Float	0.1	The threshold for a warning alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements.

Parameter	Type	Example	Description
Property	String	type	The field of the rule attribute. This field is the column name of the data source table that is monitored.
TableName	String	dual	The name of the table that is monitored.
Comment	String	Test rule	The description of the monitoring rule.
CheckResultStatus	Integer	0	The status of the monitoring result. Valid values: • 0: indicates that the data source table is normal. • 1: indicates that a warning alert is reported. • 2: indicates that a critical alert is reported.
TemplateName	String	Compare the Number of Unique Field Values Against Expectation	The name of the monitoring template.
CheckerName	String	fulx	The name of the checker.
RuleId	Integer	123123232	The ID of the monitoring rule.
FixedCheck	Boolean	false	Indicates whether the monitoring is performed based on a fixed value. Valid values: • true: indicates that the monitoring is performed based on a fixed value. • false: indicates that the monitoring is performed based on a non-fixed value.
Op	String	>	The comparison operator.
UpperValue	Float	25555	The upper limit of the predicted result. The value of this parameter is automatically generated based on the threshold that you specified.
ActualExpression	String	ds=20200912	The partition in the monitored data source table.

Parameter	Type	Example	Description
ExternalId	String	1112323123	The ID of the node.
TimeCost	String	202	The time that was taken to run the monitoring task. Unit: seconds.
Trend	String	abs	The trend of the monitoring result.
ExternalType	String	CWF2	The type of the scheduling system. Only CWF scheduling systems are supported.
BizDate	Long	1600704000000	The data timestamp. If the monitored business entity is offline data, the value is usually one day before the monitoring is performed.
CheckResult	Integer	0	The monitoring result. Valid values: • 0: indicates that the data source table is normal. • 1: indicates that a warning alert is reported. • 2: indicates that a critical alert is reported.
ResultString	String	test	The string of the monitoring result.
MatchExpression	String	ds=$[yyyymmdd]	The partition filter expression.
CheckerType	Integer	1	The monitoring type. Valid values: • 1: VOLATILITY_CHECK • 2: FIXEDVALUE_CHECK
ProjectName	String	autotest	The name of the compute engine instance or data source for which data quality is monitored.
BeginTime	Long	1600704000000	The time when the monitoring started.
DateType	String	YMD	The type of the scheduling cycle. In most cases, the value of this parameter is YMD. This value indicates year, month, and day.

Parameter	Type	Example	Description
CriticalThreshold	Float	0.5	The threshold for a critical alert. The threshold indicates the deviation of the monitoring result from the expected value. You can customize this threshold based on your business requirements. If a strong rule is used and a critical alert is reported, nodes are blocked.
IsPrediction	Boolean	true	Indicates whether the monitoring result is the same as the predicted result. Valid values: • true: indicates that the monitoring result is the same as the predicted result. • false: indicates that the monitoring result is different from the predicted result.
RuleName	String	Test	The name of the monitoring rule.
CheckerId	Integer	7	The ID of the checker.
DiscreteCheck	Boolean	true	Indicates whether the monitoring is discrete monitoring. Valid values: • true: indicates that the monitoring is discrete monitoring. • false: indicates that the monitoring is not discrete monitoring.
EndTime	Long	1600704000000	The time when the monitoring ended.
MethodName	String	count_distinct	The method used to collect sample data, such as avg, count, sum, min, max, count_distinct, user_defined, table_count, table_size, table_dt_load_count, table_dt_refuseload_count, null_value, null_value/table_count, (table_count-count_distinct)/table_count, or table_count-count_distinct.
LowerValue	Float	2344	The lower limit of the predicted result. The value of this parameter is automatically generated based on the threshold that you specified.

Parameter	Type	Example	Description
EntityId	Integer	15432322	The ID of the partition filter expression.
WhereCondition	String	id>0	The filter condition of the monitoring rule.
ExpectValue	Float	200	The expected value.
TemplateId	Integer	5	The ID of the monitoring template.
TaskId	String	16008552981681a0d6****	The ID of the monitoring task.
Id	Integer	121212121	The ID of the primary key.
ReferenceValue	Array of ReferenceValue		The historical sample values.
DiscreteProperty	String	0	The values of the sample field that are grouped by using the GROUP BY clause. For example, the values of the Gender field are grouped by using the GROUP BY clause. In this case, the values of DiscreteProperty are Male, Female, and null.
Value	Float	19	The check value.
BizDate	String	2020-12-03	The data timestamp. If the monitored business entity is offline data, the value is usually one day before the monitoring is performed.
SingleCheckResult	Integer	0	The monitoring result.
Threshold	Float	0.5	The threshold.
SampleValue	Array of SampleValue		The sample values.

Parameter	Type	Example	Description
DiscreteProperty	String	0	The values of the sample field that are grouped by using the GROUP BY clause. For example, the values of the Gender field are grouped by using the GROUP BY clause. In this case, the values of DiscreteProperty are Male, Female, and null.
BizDate	String	2020-12-03	The data timestamp. If the monitored business entity is offline data, the value is usually one day before the monitoring is performed.
Value	Float	19	The current sample value.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListQualityResultsByEntity
&EntityId=152322134
&StartDate=2020-09-20 00:00:00
&EndDate=2020-09-21 00:00:00
&PageSize=10
&PageNumber=1
&ProjectName=autotest
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListQualityResultsByEntityResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <ErrorMessage>You have no permission.</ErrorMessage>
    <RequestId>CBA58543-00D4-41****</RequestId>
    <Success>true</Success>
    <ErrorCode>401</ErrorCode>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>50</TotalCount>
        <RuleChecks>
            <BlockType>0</BlockType>
            <WarningThreshold>0.1</WarningThreshold>
            <Property>type</Property>
            <TableName>dual</TableName>
            <Comment>Test rule</Comment>
            <CheckResultStatus>0</CheckResultStatus>
```

```
            <CheckRuleBuildStatus>0</CheckRuleBuildStatus>
            <TemplateName>Compare the Number of Unique Field Values Against Expectation</Tem
plateName>
            <CheckerName>fulx</CheckerName>
            <RuleId>123123232</RuleId>
            <FixedCheck>false</FixedCheck>
            <Op>&gt;</Op>
            <UpperValue>25555</UpperValue>
            <ActualExpression>ds=20200912</ActualExpression>
            <ExternalId>1112323123</ExternalId>
            <TimeCost>202</TimeCost>
            <Trend>abs</Trend>
            <ExternalType>CWF2</ExternalType>
            <BizDate>1600704000000</BizDate>
            <CheckResult>0</CheckResult>
            <ResultString>test</ResultString>
            <MatchExpression>ds=$[yyyymmdd]</MatchExpression>
            <CheckerType>1</CheckerType>
            <ProjectName>autotest</ProjectName>
            <BeginTime>1600704000000</BeginTime>
            <DateType>YMD</DateType>
            <CriticalThreshold>0.5</CriticalThreshold>
            <IsPrediction>true</IsPrediction>
            <RuleName>Test</RuleName>
            <CheckerId>7</CheckerId>
            <DiscreteCheck>true</DiscreteCheck>
            <EndTime>1600704000000</EndTime>
            <MethodName>count_distinct</MethodName>
            <LowerValue>2344</LowerValue>
            <EntityId>15432322</EntityId>
            <WhereCondition>id&gt;0</WhereCondition>
            <ExpectValue>200</ExpectValue>
            <TemplateId>5</TemplateId>
            <TaskId>16008552981681a0d6****</TaskId>
            <Id>121212121</Id>
            <ReferenceValue>
                <DiscreteProperty>0</DiscreteProperty>
                <Value>19</Value>
                <BizDate>2020-12-03</BizDate>
                <SingleCheckResult>0</SingleCheckResult>
                <Threshold>0.5</Threshold>
            </ReferenceValue>
            <SampleValue>
                <DiscreteProperty>0</DiscreteProperty>
                <BizDate>2020-12-03</BizDate>
                <Value>19</Value>
            </SampleValue>
        </RuleChecks>
    </Data>
</ListQualityResultsByEntityResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
```

Content-Type:application/json


```
{
  "HttpStatusCode" : 200,
  "ErrorMessage" : "You have no permission.",
  "RequestId" : "CBA58543-00D4-41****",
  "Success" : true,
  "ErrorCode" : 401,
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 50,
    "RuleChecks" : {
      "BlockType" : 0,
      "WarningThreshold" : 0.1,
      "Property" : "type",
      "TableName" : "dual",
      "Comment": "Test rule",
      "CheckResultStatus" : 0,
      "TemplateName": "Compare the Number of Unique Field Values Against Expectation",
      "CheckerName" : "fulx",
      "RuleId" : 123123232,
      "FixedCheck" : false,
      "Op" : "&gt;",
      "UpperValue" : 25555,
      "ActualExpression" : "ds=20200912",
      "ExternalId" : 1112323123,
      "TimeCost" : 202,
      "Trend" : "abs",
      "ExternalType" : "CWF2",
      "BizDate" : 1600704000000,
      "CheckResult" : 0,
      "ResultString" : "test",
      "MatchExpression" : "ds=$[yyyymmdd]",
      "CheckerType" : 1,
      "ProjectName" : "autotest",
      "BeginTime" : 1600704000000,
      "DateType" : "YMD",
      "CriticalThreshold" : 0.5,
      "IsPrediction" : true,
      "RuleName" : "Test",
      "CheckerId" : 7,
      "DiscreteCheck" : true,
      "EndTime" : 1600704000000,
      "MethodName" : "count_distinct",
      "LowerValue" : 2344,
      "EntityId" : 15432322,
      "WhereCondition" : "id&gt;0",
      "ExpectValue" : 200,
      "TemplateId" : 5,
      "TaskId" : "16008552981681a0d6****",
      "Id" : 121212121,
      "ReferenceValue" : {
        "DiscreteProperty" : 0,
        "Value" : 19,
        "BizDate" : "2020-12-03",
```

```
          "SingleCheckResult" : 0,
          "Threshold" : 0.5
        },
        "SampleValue" : {
          "DiscreteProperty" : 0,
          "BizDate" : "2020-12-03",
          "Value" : 19
        }
      }
    }
  }
```

Error codes

For a list of error codes, visit the API Error Center.

9.DataService Studio

9.1. CreateDataServiceApi

Creates an API.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDataServiceApi	The operation that you want to perform. Set the value to **CreateDataServiceApi**.
RegionId	String	Yes	cn-shanghai	The region ID.
TenantId	Long	Yes	10001	The ID of the tenant.
ProjectId	Long	Yes	10000	The ID of the workspace.
ApiName	String	Yes	API name	The name of the API. The name must be 4 to 50 characters in length. The name can contain letters, digits, and underscores (_) and must start with a letter.
GroupId	String	Yes	Business process ID	The ID of the business process.
ApiMode	Integer	Yes	0	The type of the API. Valid values: 0, 1, and 2. The value 0 indicates that the API is generated in wizard mode. The value 1 indicates that the API is generated in script mode. The value 2 indicates that the API is generated by registration.

Parameter	Type	Required	Example	Description
RequestMethod	Integer	Yes	0	The request method of the API. Valid values: 0, 1, 2, and 3. The value 0 indicates the GET method. The value 1 indicates the POST method. The value 2 indicates the PUT method. The value 3 indicates the DELETE method. APIs generated in wizard or script mode support the GET and POST methods. APIs generated by registration support the GET, POST, PUT, and DELETE methods.
ResponseContentType	Integer	Yes	0	The format in which the response of the API request is returned. Valid values: 0 and 1. The value 0 indicates the JSON format. The value 1 indicates the XML format. APIs generated in wizard or script mode support the JSON format. APIs generated by registration support the JSON and XML formats.
Timeout	Integer	Yes	10000	The timeout period of the API request. Unit: milliseconds. Valid values: (0,30000].
VisibleRange	Integer	Yes	0	The scope in which the API is visible. Valid values: • 0: The API is visible to all members in the workspace. • 1: The API is visible only to its owner, and permissions on the API cannot be granted to other members.
Protocols	String	Yes	0,1	The protocol used by the API. Valid values: 0 and 1. The value 0 indicates HTTP. The value 1 indicates HTTPS. You can specify multiple protocols. Separate them with commas (,).

Parameter	Type	Required	Example	Description
WizardDetails	String	No	{"isPagedResponse":true,"wizardConnection":{"connectionId":122786,"tableName":"person"},"wizardRequestParameters":[{"columnName":"id","defaultValue":"","exampleValue":"1","isRequiredParameter":true,"parameterDataType":2,"parameterDescription":"","parameterName":"id","parameterOperator":0,"parameterPosition":0}],"wizardResponseParameters":[{"columnName":"id","exampleValue":"11","parameterDataType":2,"parameterDescription":"","parameterName":"id"}]}	The details of the API generated in wizard mode. For more information, see the WizardDetails parameter returned by the GetDataServiceApi operation.

Parameter	Type	Required	Example	Description
ScriptDetails	String	No	{"isPagedResponse":false,"script":"select id as id1, name as name1 from person where id=${inputid}","scriptConnection":{"connectionId":122786,"tableName":"person"},"scriptRequestParameters":[{"defaultValue":"","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","parameterName":"inputid","parameterOperator":0,"parameterPosition":1}],"scriptResponseParameters":[{"exampleValue":"","parameterDataType":0,"parameterDescription":"","parameterName":"id1"},{"exampleValue":"","parameterDataType":0,"parameterDescription":"","parameterName":"name1"}]}	The details of the API generated in script mode. For more information, see the ScriptDetails parameter returned by the GetDataServiceApi operation.

Parameter	Type	Required	Example	Description
RegistrationDetails	String	No	{"failedResultSample":"fail","registrationErrorCodes":[{"errorCode":"e1","errorMessage":"msg1","errorSolution":"sol1"},{"errorCode":"e2","errorMessage":"msg2","errorSolution":"sol2"}],"registrationRequestParameters":[{"columnName":"","defaultValue":"","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","parameterName":"id","parameterOperator":0,"parameterPosition":1},{"columnName":"","defaultValue":"xx","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","parameterName":"cc","parameterOperator":2,"parameterPosition":2}],"serviceContentType":1,"serviceHost":"http://www.baidu.com","servicePath":"/[uid]","serviceRequestBodyDescription":"body","successfulResultSample":"success"}	The details of the API generated by registration. For more information, see the RegistrationDetails parameter returned by the GetDataServiceApi operation.
ApiPath	String	Yes	/test/1	The path of the API. The path cannot exceed 200 characters in length. The path can contain letters, digits, underscores (_), and hyphens (-) and must start with a forward slash (/).

Parameter	Type	Required	Example	Description
ApiDescription	String	Yes	API description	The description of the API.
FolderId	Long	No	0	The ID of the folder used to store the API. The ID of the root folder in a business process is 0. The ID of the folder created by a user must be greater than 0.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
Data	Long	100003	The ID of the API.
ErrorMessage	String	The connection does not exist.	The error message.
RequestId	String	0000-ABCD-EFG****	The ID of the request.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateDataServiceApi
&TenantId=10001
&ProjectId=10000
&ApiName=API name
&GroupId=Business process ID
&ApiMode=0
&RequestMethod=0
&ResponseContentType=0
&Timeout=10000
&VisibleRange=0
&Protocols=0,1
&WizardDetails={"isPagedResponse":true,"wizardConnection":{"connectionId":122786,"tableName"
:"person"},"wizardRequestParameters":[{"columnName":"id","defaultValue":"","exampleValue":"1
","isRequiredParameter":true,"parameterDataType":2,"parameterDescription":"","parameterName"
:"id","parameterOperator":0,"parameterPosition":0}],"wizardResponseParameters":[{"columnName
":"id","exampleValue":"11","parameterDataType":2,"parameterDescription":"","parameterName":"
id"}]}
&ScriptDetails={"isPagedResponse":false,"script":"select id as id1, name as name1 from perso
n where id=${inputid}","scriptConnection":{"connectionId":122786,"tableName":"person"},"scri
ptRequestParameters":[{"defaultValue":"","exampleValue":"","isRequiredParameter":true,"param
eterDataType":0,"parameterDescription":"","parameterName":"inputid","parameterOperator":0,"p
arameterPosition":1}],"scriptResponseParameters":[{"exampleValue":"","parameterDataType":0,"
parameterDescription":"","parameterName":"id1"},{"exampleValue":"","parameterDataType":0,"pa
rameterDescription":"","parameterName":"name1"}]}
&RegistrationDetails={"failedResultSample":"fail","registrationErrorCodes":[{"errorCode":"e1
","errorMessage":"msg1","errorSolution":"sol1"},{"errorCode":"e2","errorMessage":"msg2","err
orSolution":"sol2"}],"registrationRequestParameters":[{"columnName":"","defaultValue":"","ex
ampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","p
arameterName":"id","parameterOperator":0,"parameterPosition":1},{"columnName":"","defaultVal
ue":"xx","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescri
ption":"","parameterName":"cc","parameterOperator":2,"parameterPosition":2}],"serviceContent
Type":1,"serviceHost":"http://www.baidu.com","servicePath":"/[uid]","serviceRequestBodyDescr
iption":"body","successfulResultSample":"success"}
&ApiPath=/test/1
&ApiDescription=API description
&FolderId=0
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateDataServiceApiResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>100003</Data>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
</CreateDataServiceApiResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : 100003,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

9.2. PublishDataServiceApi

Publishes an API.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	PublishDataServiceApi	The operation that you want to perform. Set the value to **PublishDataServiceApi**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
TenantId	Long	Yes	10002	The ID of the tenant.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
ApiId	Long	Yes	10000	The ID of the API. You can call the ListDataServiceApis operation to obtain the ID.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
Data	Boolean	true	Indicates whether the API is published.
ErrorMessage	String	The connection does not exist.	The error message.
RequestId	String	0000-ABCD-EFG****	The ID of the request.

Parameter	Type	Example	Description
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=PublishDataServiceApi
&TenantId=10002
&ProjectId=10001
&ApiId=10000
&<Common request parameters>
```

Sample responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<PublishDataServiceApiResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <Data>true</Data>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Success>true</Success>
</PublishDataServiceApiResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "Data" : true,
  "ErrorMessage" : "The connection does not exist.",
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

9.3. DeleteDataServiceApi

Deletes an API from DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDataServiceApi	The operation that you want to perform.
ApiId	Long	Yes	10000	The ID of the data service API.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the deletion was successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteDataServiceApi &ApiId=10000 &ProjectId=10001 &RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": true, "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.4. ListDataServiceApis

Queries the information about APIs in the development state.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServiceApis	The operation that you want to perform. Set the value to **ListDataServiceApis**.
RegionId	String	Yes	cn-shanghai	The ID of the region.
PageNumber	Integer	Yes	1	The number of the page to return. Pages start from page 1. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. A maximum of 100 entries can be returned on each page.
ProjectId	Long	Yes	10000	The ID of the workspace.
TenantId	Long	Yes	10001	The ID of the tenant.
ApiNameKeyword	String	No	My API name	The keyword in the name of the API. The keyword can be used to search for the API whose name contains the keyword.
ApiPathKeyword	String	No	/test/	The keyword in the path of the API. The keyword can be used to search for the API whose path contains the keyword.
CreatorId	String	No	12345	The ID of the Alibaba Cloud account used by the creator of the API. The ID can be used to search for the API created by the creator.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The ID of the request.
ErrorMessage	String	The connection does not exist.	The error message.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
Data	Object		The information about the APIs in the development state.
PageNumber	Integer	1	The page number of the returned page. The value of this parameter is the same as that of the PageNumber parameter in the request.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. A maximum of 100 entries can be returned on each page.
TotalCount	Integer	100	The total number of entries.
Apis	Array of Api		The APIs in the development state.
Timeout	Integer	10000	The timeout period of the API request. Unit: milliseconds.
Status	Integer	0	The status of the API. Valid values: 0 and 1. A value of 0 indicates that the API is not published. A value of 1 indicates that the API is published.
ApiId	Long	10002	The ID of the API.

Parameter	Type	Example	Description
ApiMode	Integer	0	The type of the API. Valid values: 0, 1, and 2. A value of 0 indicates that the API is generated in wizard mode. A value of 1 indicates that the API is generated in script mode. A value of 2 indicates that the API is generated by registration.
ProjectId	Long	10000	The ID of the workspace.
ResponseContentType	Integer	0	The format in which the response of the API request is returned. Valid values: 0 and 1. A value of 0 indicates the JSON format. A value of 1 indicates the XML format. APIs generated in wizard or script mode support the JSON format. APIs generated by registration support the JSON and XML formats.
CreatorId	String	1234567	The ID of the Alibaba Cloud account used by the creator of the API.
VisibleRange	Integer	0	The scope in which the API is visible. Valid values: 0 and 1. A value of 0 indicates that the API is visible within the workspace. A value of 1 indicates that the API is visible only to the API creator.
ModifiedTime	String	2020-06-23T00:21:01+0800	The time when the API was last modified.
OperatorId	String	2345678	The ID of the Alibaba Cloud account used by the user who last modified the API.
GroupId	String	abcde123456789	The ID of the API group.
Description	String	API description	The description of the API.
FolderId	Long	0	The ID of the folder in which the API is stored.

Parameter	Type	Example	Description
RequestMethod	Integer	0	The request method of the API. Valid values: 0, 1, 2, and 3. A value of 0 indicates the GET method. A value of 1 indicates the POST method. A value of 2 indicates the PUT method. A value of 3 indicates the DELETE method. APIs generated in wizard or script mode support the GET and POST methods. APIs generated by registration support the GET, POST, PUT, and DELETE methods.
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the API was created.
ApiName	String	My API name	The name of the API.
TenantId	Long	10000	The ID of the tenant.
ApiPath	String	/test/1	The path of the API.
Protocols	Array of Integer	0	The protocols used by the API. Valid values: 0 and 1. A value of 0 indicates that the API uses HTTP. A value of 1 indicates that the API uses HTTPS. Multiple protocols are presented in a list.
RegistrationDetails	Object		The details of the API generated by registration. This parameter is returned only if the API is generated by registration.
ServiceHost	String	http://example.aliyundoc.com	The URL of the backend service.
ServiceContentType	Integer	0	The format in which the response of the API request is returned. Valid values: 0 and 1. A value of 0 indicates the JSON format. A value of 1 indicates the XML format. APIs generated in wizard or script mode support the JSON format. APIs generated by registration support the JSON and XML formats.
ServicePath	String	/index	The path of the backend service.

Parameter	Type	Example	Description
SuccessfulResultSample	String	null	The sample success response of the API.
FailedResultSample	String	null	The sample error response of the API.
ServiceRequestBodyDescription	String	null	The body of the request initiated to call the backend service.
RegistrationErrorCodes	Array of RegistrationErrorCode		The error codes returned for the API generated by registration.
ErrorMessage	String	fail to call	The error message.
ErrorCode	String	1001	The error code.
ErrorSolution	String	retry	The solution used to resolve the issue.
RegistrationRequestParameters	Array of RegistrationRequestParameter		The request parameters of the API generated by registration.
ColumnName	String	column1	The name of the associated field. This parameter is supported only if the API is generated in wizard mode.
ParameterName	String	name1	The name of the parameter.

Parameter	Type	Example	Description
ParameterPosition	Integer	0	The position of the parameter. Valid values: 0, 1, 2, and 3. A value of 0 indicates that the parameter is in the URL path of the request. A value of 1 indicates that the parameter is in the Query parameter of the request URL. A value of 2 indicates that the parameter is in the request header. A value of 3 indicates that the parameter is in the request body. APIs generated in wizard or script mode support only the Query position. APIs generated by registration whose request method is GET or DELETE support the Query and Head positions. APIs generated by registration whose request method is PUT or POST support the Query, Head, and Body positions.
ParameterDescription	String	description1	The description of the parameter.
DefaultValue	String	default1	The default value of the parameter.
ParameterOperator	Integer	0	The operator used for the value of the parameter. Valid values: 0, 1, 2, and 3. A value of 0 indicates that the operator is Equal. A value of 1 indicates that the operator is Like. A value of 2 indicates that the operator is Const. A value of 3 indicates that the operator is In. APIs generated in wizard mode support the Equal, Like, and In operators. APIs generated in script mode support the Equal operator. APIs generated by registration support the Equal and Const operators.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: 0, 1, 2, 3, 4, and 5. A value of 0 indicates the STRING data type. A value of 1 indicates the INT data type. A value of 2 indicates the LONG data type. A value of 3 indicates the FLOAT data type. A value of 4 indicates the DOUBLE data type. A value of 5 indicates the BOOLEAN data type.
ExampleValue	String	example1	The sample value of the parameter.

Parameter	Type	Example	Description
IsRequiredParameter	Boolean	true	Indicates whether the request parameter is required.
ScriptDetails	Object		The details of the API generated in script mode. This parameter is returned only if the API is generated in script mode.
Script	String	select a from t	The SQL script.
IsPagedResponse	Boolean	true	Indicates whether the entries are returned by page.
ScriptRequestParameters	Array of ScriptRequestParameter		The request parameters of the API generated in script mode.
ColumnName	String	column1	The name of the associated field. This parameter is supported only if the API is generated in wizard mode.
ParameterName	String	param1	The name of the parameter.
ParameterPosition	Integer	0	The position of the parameter. Valid values: • 0: Path • 1: Query • 2: Head • 3: Body APIs generated in wizard or script mode support only the Query position. APIs generated by registration whose request method is GET or DELETE support the Query and Head positions. APIs generated by registration whose request method is PUT or POST support the Query, Head, and Body positions.
ParameterDescription	String	description1	The description of the parameter.
DefaultValue	String	default1	The default value of the parameter.

Parameter	Type	Example	Description
ParameterOperator	Integer	0	The operator used for the value of the parameter. Valid values: • 0: Equal • 1: Like • 2: Const • 3: In APIs generated in wizard mode support the Equal, Like, and In operators. APIs generated in script mode support the Equal operator. APIs generated by registration support the Equal and Const operators.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: • 0: STRING • 1: INT • 2: LONG • 3: FLOAT • 4: DOUBLE • 5: BOOLEAN
ExampleValue	String	example1	The sample value of the parameter.
IsRequiredParameter	Boolean	true	Indicates whether the request parameter is required.
ScriptResponseParameters	Array of ScriptResponseParameter		The response parameters of the API generated in script mode.
ParameterDescription	String	description2	The description of the parameter.
ColumnName	String	column2	The name of the associated field. This parameter is supported only if the API is generated in wizard mode.
ParameterName	String	param2	The name of the parameter.

Parameter	Type	Example	Description
ParameterDataType	Integer	0	The data type of the parameter. Valid values: • 0: STRING • 1: INT • 2: LONG • 3: FLOAT • 4: DOUBLE • 5: BOOLEAN
ExampleValue	String	example2	The sample value of the parameter.
ScriptConnection	Object		The data source information of the API generated in script mode.
TableName	String	t	The name of the table in the data source.
ConnectionId	Long	123	The ID of the data source.
WizardDetails	Object		The details of the API generated in wizard mode. This parameter is returned only if the API is generated in wizard mode.
IsPagedResponse	Boolean	true	Indicates whether the entries are returned by page.
WizardRequestParameters	Array of WizardRequestParameter		The request parameters of the API generated in wizard mode.
ColumnName	String	column1	The name of the associated field. This parameter is supported only if the API is generated in wizard mode.
ParameterName	String	param1	The name of the parameter.

Parameter	Type	Example	Description
ParameterPosition	Integer	0	The position of the parameter. Valid values: 0, 1, 2, and 3. A value of 0 indicates that the parameter is in the URL path of the request. A value of 1 indicates that the parameter is in the Query parameter of the request URL. A value of 2 indicates that the parameter is in the request header. A value of 3 indicates that the parameter is in the request body. APIs generated in wizard or script mode support only the Query position. APIs generated by registration whose request method is GET or DELETE support the Query and Head positions. APIs generated by registration whose request method is PUT or POST support the Query, Head, and Body positions.
ParameterDescription	String	description1	The description of the parameter.
DefaultValue	String	default1	The default value of the parameter.
ParameterOperator	Integer	0	The operator used for the value of the parameter. Valid values: 0, 1, 2, and 3. A value of 0 indicates that the operator is Equal. A value of 1 indicates that the operator is Like. A value of 2 indicates that the operator is Const. A value of 3 indicates that the operator is In. APIs generated in wizard mode support the Equal, Like, and In operators. APIs generated in script mode support the Equal operator. APIs generated by registration support the Equal and Const operators.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: 0, 1, 2, 3, 4, and 5. A value of 0 indicates the STRING data type. A value of 1 indicates the INT data type. A value of 2 indicates the LONG data type. A value of 3 indicates the FLOAT data type. A value of 4 indicates the DOUBLE data type. A value of 5 indicates the BOOLEAN data type.
ExampleValue	String	example1	The sample value of the parameter.

Parameter	Type	Example	Description
IsRequiredParameter	Boolean	true	Indicates whether the request parameter is required.
WizardResponseParameters	Array of WizardResponseParameter		The response parameters of the API generated in wizard mode.
ParameterDescription	String	description2	The description of the parameter.
ColumnName	String	column2	The name of the associated field. This parameter is supported only if the API is generated in wizard mode.
ParameterName	String	param2	The name of the parameter.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: 0, 1, 2, 3, 4, and 5. A value of 0 indicates the STRING data type. A value of 1 indicates the INT data type. A value of 2 indicates the LONG data type. A value of 3 indicates the FLOAT data type. A value of 4 indicates the DOUBLE data type. A value of 5 indicates the BOOLEAN data type.
ExampleValue	String	example2	The sample value of the parameter.
WizardConnection	Object		The data source information of the API generated in wizard mode.
TableName	String	t	The name of the table in the data source.
ConnectionId	Long	123	The ID of the data source.

The details about the APIs of different types are returned in different parameters. The details about the API generated in wizard mode are returned in the WizardDetails parameter. The details about the API generated in script mode are returned in the ScriptDetails parameter. The details about the API generated by registration are returned in the RegistrationDetails parameter.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListDataServiceApis
&PageNumber=1
&PageSize=10
&ProjectId=10000
&TenantId=10001
&ApiNameKeyword=My API name
&ApiPathKeyword=/test/
&CreatorId=12345
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListDataServiceApisResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <Apis>
            <Timeout>10000</Timeout>
            <Status>0</Status>
            <ApiId>10002</ApiId>
            <ApiMode>0</ApiMode>
            <ProjectId>10000</ProjectId>
            <ResponseContentType>0</ResponseContentType>
            <CreatorId>1234567</CreatorId>
            <VisibleRange>0</VisibleRange>
            <ModifiedTime>2020-06-23T00:21:01+0800</ModifiedTime>
            <OperatorId>2345678</OperatorId>
            <GroupId>abcde123456789</GroupId>
            <Description>API description</Description>
            <FolderId>0</FolderId>
            <RequestMethod>0</RequestMethod>
            <CreatedTime>2020-06-23T00:21:01+0800</CreatedTime>
            <ApiName>My API name</ApiName>
            <TenantId>10000</TenantId>
            <ApiPath>/test/1</ApiPath>
            <Protocols>0</Protocols>
            <RegistrationDetails>
                <ServiceHost>http://example.aliyundoc.com</ServiceHost>
                <ServiceContentType>0</ServiceContentType>
                <ServicePath>/index</ServicePath>
                <SuccessfulResultSample>{"success": true}</SuccessfulResultSample>
                <FailedResultSample>{"success": false}</FailedResultSample>
                <ServiceRequestBodyDescription>{"abc":1}</ServiceRequestBodyDescription>
                <RegistrationErrorCodes>
```

```
                <ErrorMessage>fail to call</ErrorMessage>
                <ErrorCode>1001</ErrorCode>
                <ErrorSolution>retry</ErrorSolution>
            </RegistrationErrorCodes>
            <RegistrationRequestParameters>
                <ColumnName>column1</ColumnName>
                <ParameterName>name1</ParameterName>
                <ParameterPosition>0</ParameterPosition>
                <ParameterDescription>description1</ParameterDescription>
                <DefaultValue>default1</DefaultValue>
                <ParameterOperator>0</ParameterOperator>
                <ParameterDataType>0</ParameterDataType>
                <ExampleValue>example1</ExampleValue>
                <IsRequiredParameter>true</IsRequiredParameter>
            </RegistrationRequestParameters>
        </RegistrationDetails>
        <ScriptDetails>
            <Script>select a from t</Script>
            <IsPagedResponse>true</IsPagedResponse>
            <ScriptRequestParameters>
                <ColumnName>column1</ColumnName>
                <ParameterName>param1</ParameterName>
                <ParameterPosition>0</ParameterPosition>
                <ParameterDescription>description1</ParameterDescription>
                <DefaultValue>default1</DefaultValue>
                <ParameterOperator>0</ParameterOperator>
                <ParameterDataType>0</ParameterDataType>
                <ExampleValue>example1</ExampleValue>
                <IsRequiredParameter>true</IsRequiredParameter>
            </ScriptRequestParameters>
            <ScriptResponseParameters>
                <ParameterDescription>description2</ParameterDescription>
                <ColumnName>column2</ColumnName>
                <ParameterName>param2</ParameterName>
                <ParameterDataType>0</ParameterDataType>
                <ExampleValue>example2</ExampleValue>
            </ScriptResponseParameters>
            <ScriptConnection>
                <TableName>t</TableName>
                <ConnectionId>123</ConnectionId>
            </ScriptConnection>
        </ScriptDetails>
        <WizardDetails>
            <IsPagedResponse>true</IsPagedResponse>
            <WizardRequestParameters>
                <ColumnName>column1</ColumnName>
                <ParameterName>param1</ParameterName>
                <ParameterPosition>0</ParameterPosition>
                <ParameterDescription>description1</ParameterDescription>
                <DefaultValue>default1</DefaultValue>
                <ParameterOperator>0</ParameterOperator>
                <ParameterDataType>0</ParameterDataType>
                <ExampleValue>example1</ExampleValue>
                <IsRequiredParameter>true</IsRequiredParameter>
            </WizardRequestParameters>
```

```
                <WizardRequestParameters>
                <WizardResponseParameters>
                    <ParameterDescription>description2</ParameterDescription>
                    <ColumnName>column2</ColumnName>
                    <ParameterName>param2</ParameterName>
                    <ParameterDataType>0</ParameterDataType>
                    <ExampleValue>example2</ExampleValue>
                </WizardResponseParameters>
                <WizardConnection>
                    <TableName>t</TableName>
                    <ConnectionId>123</ConnectionId>
                </WizardConnection>
            </WizardDetails>
        </Apis>
    </Data>
</ListDataServiceApisResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "Apis" : {
      "Timeout" : 10000,
      "Status" : 0,
      "ApiId" : 10002,
      "ApiMode" : 0,
      "ProjectId" : 10000,
      "ResponseContentType" : 0,
      "CreatorId" : 1234567,
      "VisibleRange" : 0,
      "ModifiedTime" : "2020-06-23T00:21:01+0800",
      "OperatorId" : 2345678,
      "GroupId" : "abcde123456789",
      "Description" : "API description",
      "FolderId" : 0,
      "RequestMethod" : 0,
      "CreatedTime" : "2020-06-23T00:21:01+0800",
      "ApiName" : "My API name",
      "TenantId" : 10000,
      "ApiPath" : "/test/1",
      "Protocols" : 0,
      "RegistrationDetails" : {
        "ServiceHost" : "http://example.aliyundoc.com",
        "ServiceContentType" : 0,
        "ServicePath" : "/index"
```

```
    "ServicePath" : "/index",
    "SuccessfulResultSample" : "{\"success\": true}",
    "FailedResultSample" : "{\"success\": false}",
    "ServiceRequestBodyDescription" : "{\"abc\":1}",
    "RegistrationErrorCodes" : {
      "ErrorMessage" : "fail to call",
      "ErrorCode" : 1001,
      "ErrorSolution" : "retry"
    },
    "RegistrationRequestParameters" : {
      "ColumnName" : "column1",
      "ParameterName" : "name1",
      "ParameterPosition" : 0,
      "ParameterDescription" : "description1",
      "DefaultValue" : "default1",
      "ParameterOperator" : 0,
      "ParameterDataType" : 0,
      "ExampleValue" : "example1",
      "IsRequiredParameter" : true
    }
  },
  "ScriptDetails" : {
    "Script" : "select a from t",
    "IsPagedResponse" : true,
    "ScriptRequestParameters" : {
      "ColumnName" : "column1",
      "ParameterName" : "param1",
      "ParameterPosition" : 0,
      "ParameterDescription" : "description1",
      "DefaultValue" : "default1",
      "ParameterOperator" : 0,
      "ParameterDataType" : 0,
      "ExampleValue" : "example1",
      "IsRequiredParameter" : true
    },
    "ScriptResponseParameters" : {
      "ParameterDescription" : "description2",
      "ColumnName" : "column2",
      "ParameterName" : "param2",
      "ParameterDataType" : 0,
      "ExampleValue" : "example2"
    },
    "ScriptConnection" : {
      "TableName" : "t",
      "ConnectionId" : 123
    }
  },
  "WizardDetails" : {
    "IsPagedResponse" : true,
    "WizardRequestParameters" : {
      "ColumnName" : "column1",
      "ParameterName" : "param1",
      "ParameterPosition" : 0,
      "ParameterDescription" : "description1",
      "DefaultValue" : "default1",
```

```
          "ParameterOperator" : 0,
          "ParameterDataType" : 0,
          "ExampleValue" : "example1",
          "IsRequiredParameter" : true
        },
        "WizardResponseParameters" : {
          "ParameterDescription" : "description2",
          "ColumnName" : "column2",
          "ParameterName" : "param2",
          "ParameterDataType" : 0,
          "ExampleValue" : "example2"
        },
        "WizardConnection" : {
          "TableName" : "t",
          "ConnectionId" : 123
        }
      }
    }
  }
}
```

Error codes

Http status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

9.5. GetDataServiceApi

Queries the information about an API in the development state in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDataServiceApi	The operation that you want to perform.
ApiId	Long	Yes	10000	The ID of the data service API.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The response parameters.
ApiId	Long	10000	The ID of the data service API.
ApiMode	Integer	0	The type of the API. Valid values: 0 (Wizard API), 1 (Script API), and 2 (registration API).
ApiName	String	Test API	The operation that you want to perform.
ApiPath	String	/test/1	The path to the API.

Parameter	Type	Example	Description
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the configuration group was created.
CreatorId	String	1234567	The Alibaba Cloud ID of the project creator.
Description	String	Test API description	The description of the snapshot.
FolderId	Long	0	The folder ID.
GroupId	String	ab123****	The ID of the group.
ModifiedTime	String	2020-06-23T00:21:01+0800	The time when the node instance was last modified.
OperatorId	String	2345678	The Alibaba Cloud ID of the latest editor.
ProjectId	Long	10001	The ID of the DataWorks workspace.
Protocols	List	0	The protocol used by the API. You can select 0(HTTP) and 1(HTTPS).
RegistrationDetails	Struct		The details of the registered API. Only the registered API is returned.
FailedResultSample	String	{"success": false}	Error return example.
RegistrationErrorCodes	Array of RegistrationErrorCode		Registers a list of API error codes.
ErrorCode	String	1001	The error code.
ErrorMessage	String	fail to call	The error message.
ErrorSolution	String	retry	Solution to the error.

Parameter	Type	Example	Description
RegistrationRequestParameters	Array of RegistrationRequestParameter		The request parameters of the registered API.
ColumnName	String	column1	The table field name to be associated with the RDS instance. This parameter is only supported by codeless UI.
DefaultValue	String	default1	Auto is the default value for License Type.
ExampleValue	String	example1	Example.
IsRequiredParameter	Boolean	true	Indicates whether the service is required.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description1	The description of the snapshot.
ParameterName	String	name1	The key of parameter N.
ParameterOperator	Integer	0	OPERATOR. The optional enumeration values are: • 0:Equal • 1:Like • 2:Const • 3:In Supports Equal, Like, and In for Wizard API, Equal for script API, and Equal and Const for registration API.

Parameter	Type	Example	Description
ParameterPosition	Integer	0	The location of the parameter. The following enumerated values are available: • 0:Path • 1:Query • 2:Head • 3:Body The Wizard and script APIs support only Query, and the registration APIs support Query, Head, GET and DELETE methods, and Query, Head, and Body in PUT and POST methods.
ServiceContentType	Integer	0	The type of the data returned by the API. Valid values: • 0:JSON • 1:XML Only JSON is supported for Wizard and scripting APIs; JSON and XML are supported for registration APIs.
ServiceHost	String	http://example.aliyundoc.com	Backend Service Address
ServicePath	String	/index	Backend service path
ServiceRequestBodyDescription	String	{"abc":1}	Backend request body description
SuccessfulResultSample	String	{"success": true}	Sample success responses
RequestMethod	Integer	0	The API request method. You can select 0(GET), 1(POST), 2(PUT), or 3(DELTE). The Wizard and script APIs support GET and POST. The registration API supports GET, POST, PUT, and DELETE.
ResponseContentType	Integer	0	The type of the data to be returned for the API. Valid values: 0(JSON) and 1(XML). JSON is supported for Wizard and script APIs, and JSON and XML are supported for registration APIs.

Parameter	Type	Example	Description
ScriptDetails	Struct		The details of the script API. Only script APIs are returned.
IsPagedResponse	Boolean	true	Specifies whether to enable pagination.
Script	String	select a from t	SQL script.
ScriptConnection	Struct		The data source information about the script API.
ConnectionId	Long	123	The ID of the data source.
TableName	String	t	The name of the source table.
ScriptRequestParameters	Array of ScriptRequestParameter		The request parameters of the script API.
ColumnName	String	column1	The table field name to be associated with the RDS instance. This parameter is only supported by codeless UI.
DefaultValue	String	default1	Auto is the default value for License Type.
ExampleValue	String	example1	Example.
IsRequiredParameter	Boolean	true	Indicates whether the service is required.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description1	The description of the snapshot.
ParameterName	String	param1	The key of parameter N.

Parameter	Type	Example	Description
ParameterOperator	Integer	0	OPERATOR. Optional enumeration values include 0(Equal), 1(Like), 2(Const), and 3(In). The codeless UI API supports Equal, Like, and In. The script-based API supports Equal. The registration API supports Equal and Const.
ParameterPosition	Integer	0	The location of the parameter. You can select 0(Path), 1(Query), 2(Head), or 3(Body). The Wizard and script APIs only support Query. The GET and DELETE methods in the registration API support Query and Head, while the PUT and POST methods support Query, Head, and Body.
ScriptResponseParameters	Array of ScriptResponseParameter		The response parameters of the script API.
ColumnName	String	column2	The table field name to be associated with the RDS instance. This parameter is only supported by codeless UI.
ExampleValue	String	example2	Example.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description2	The description of the snapshot.
ParameterName	String	param2	The key of parameter N.
Status	Integer	0	The status of the API. Valid values: 0 (unpublished) and 1 (published).
TenantId	Long	10002	The ID of the tenant.
Timeout	Integer	10000	The timeout period. Unit: milliseconds (ms).
VisibleRange	Integer	0	Visible range. Optional enumeration values include 0 (workspace) and 1 (private).

Parameter	Type	Example	Description
WizardDetails	Struct		Wizard API details. Only wizard APIs return.
IsPagedResponse	Boolean	true	Specifies whether to enable pagination.
WizardConnection	Struct		The data source information for the wizard API.
ConnectionId	Long	123	The ID of the data source.
TableName	String	t	The name of the source table.
WizardRequestParameters	Array of WizardRequestParameter		List of request parameters for the wizard API.
ColumnName	String	column1	The table field name to be associated with the RDS instance. This parameter is only supported by codeless UI.
DefaultValue	String	default1	Auto is the default value for License Type.
ExampleValue	String	example1	Example.
IsRequiredParameter	Boolean	true	Indicates whether the service is required.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description1	The description of the snapshot.
ParameterName	String	param1	The key of parameter N.
ParameterOperator	Integer	0	OPERATOR. Optional enumeration values include 0(Equal), 1(Like), 2(Const), and 3(In). The codeless UI API supports Equal, Like, and In. The script-based API supports Equal. The registration API supports Equal and Const.

Parameter	Type	Example	Description
ParameterPosition	Integer	0	The location of the parameter. You can select 0(Path), 1(Query), 2(Head), or 3(Body). The Wizard and script APIs only support Query. The GET and DELETE methods in the registration API support Query and Head, while the PUT and POST methods support Query, Head, and Body.
WizardResponseParameters	Array of WizardResponseParameter		The response parameters of the codeless UI.
ColumnName	String	column2	The table field name to be associated with the RDS instance. This parameter is only supported by codeless UI.
ExampleValue	String	example2	Example.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description2	The description of the snapshot.
ParameterName	String	param2	The key of parameter N.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Different fields are used to obtain the details of different types of APIs. The wizard API uses the WizardDetails field. The Script API uses the ScriptDetails field. The registration API uses the RegistrationDetails field.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetDataServiceApi &ApiId=10000 &ProjectId=10001 &RegionId
=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data
> <Status> 0 </Status> <VisibleRange> 0 </VisibleRange> <Protocols> 0 </Protocols> <WizardDe
tails> <Script> select a data type </Script> <ServiceContentType> 0 </ServiceContentType> <S
criptRequestParameters> <ColumnName> column1 </ColumnName> <DefaultValue> default1 </Default
Value> <ExampleValue> example1 </ExampleValue> <ParameterDataType> 0 </ParameterDataType> <P
arameterPosition> 0 </ParameterPosition> <ParameterName> param1 </ParameterName> <ParameterO
perator> 0 </ParameterOperator> <ParameterDescription> description1 </ParameterDescription>
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arameters> <ColumnName> column2 </ColumnName> <ExampleValue> example2 </ExampleValue> <Param
eterDataType> 0 </ParameterDataType> <ParameterName> param2 </ParameterName> <ParameterDescr
iption> description2 </ParameterDescription> </ScriptRequestParameters> <ServicePath> /index
</ServicePath> <RegistrationErrorCodes> <ErrorCode> 1001 </ErrorCode> <ErrorMessage> fail to
call </ErrorMessage> <ErrorSolution> retry </ErrorSolution> </RegistrationErrorCodes> <Regis
trationErrorCodes> <ColumnName> column1 </ColumnName> <DefaultValue> default1 </DefaultValue
> <ExampleValue> example1 </ExampleValue> <ParameterDataType> 0 </ParameterDataType> <Parame
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ndoc.com</ServiceHost> <RegistrationRequestParameters> <ErrorCode> 1001 </ErrorCode> <ErrorM
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```

```
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ardRequestParameters> <SuccessfulResultSample> {"success": true} </SuccessfulResultSample> <
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ptConnection> </ScriptDetails> <ApiId> 10000 </ApiId> <ApiMode> 0 </ApiMode> <ApiPath> /test
/1 </ApiPath> </Data> <ErrorCode> 1031203110005 </ErrorCode> <ErrorMessage> The specified pa
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```


JSON Format


```
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Type": 0, "ScriptRequestParameters": [ { "ColumnName": "column1", "DefaultValue": "default1"
, "ExampleValue": "example1", "ParameterDataType": 0, "ParameterPosition": 0, "ParameterName
": "param1", "ParameterOperator": 0, "ParameterDescription": "description1", "IsRequiredPara
meter": true }, { "ColumnName": "column2", "ExampleValue": "example2"," ParameterDataType":
0, "ParameterName": "param2", "ParameterDescription": "description2" } ], "ServicePath": "/i
ndex", "RegistrationErrorCodes": [ { "ErrorCode": 1001, "ErrorMessage": "fail to call", "Err
orSolution": "retry" }, { "ColumnName": "column1"," DefaultValue": "default1", "ExampleValue
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rameterOperator": 0, "ParameterDescription": "description1", "IsRequiredParameter": true } ]
, "WizardResponseParameters": [ { "ColumnName": "column1", "DefaultValue":" default1", "Exam
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am1", "ParameterOperator": 0, "ParameterDescription": "description1", "IsRequiredParameter":
true }, { "ColumnName": "column2", "ExampleValue": "example2", "ParameterDataType": 0," Para
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.abc.com ", "RegistrationRequestParameters": [ { "ErrorCode": 1001, "ErrorMessage": "fail to
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": true } ], "IsPagedResponse": true, "ServiceRequestBodyDescription": "{\"abc\":1}", "Wizar
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rameterOperator": 0, "ParameterDescription": "description1", "IsRequiredParameter": true },
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tion": 0, "ParameterName": "param1", "ParameterOperator": 0, "ParameterDescription": "descri
ption1", "IsRequiredParameter": true }, { "ColumnName": "column2", "ExampleValue": "example2
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```

```
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```

```
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}
```


Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.6. UpdateDataServiceApi

Updates the information about an API in the development state in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDataServiceApi	The operation that you want to perform.
ApiDescription	String	Yes	Test API description	The description of the API operation.
ApiId	Long	Yes	10000	The ID of the API to query.
ApiPath	String	Yes	/test/2	The path to the API.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
Protocols	String	Yes	0,1	The protocol used by the API. You can select 0(HTTP) and 1(HTTPS) for enumeration. Multiple values are supported, and multiple values are separated by a comma (,).
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
RequestMethod	Integer	Yes	0	The API request method. You can select 0(GET), 1(POST), 2(PUT), or 3(DELTE). The Wizard and script APIs support GET and POST. The registration API supports GET, POST, PUT, and DELETE.
ResponseContentType	Integer	Yes	0	The type of the data to be returned for the API. Valid values: 0(JSON) and 1(XML). JSON is supported for Wizard and script APIs, and JSON and XML are supported for registration APIs.
TenantId	Long	Yes	10001	The ID of the tenant.
Timeout	Integer	Yes	10000	The timeout period. Unit: milliseconds. Valid values: (0, 30000].)

Parameter	Type	Required	Example	Description
VisibleRange	Integer	Yes	0	Visible range. Optional enumeration values include 0 (workspace) and 1 (private).
WizardDetails	String	No	{"isPagedResponse":true,"wizardConnection":{"connectionId":122786,"tableName":"person"},"wizardRequestParameters":[{"columnName":"id","defaultValue":"","exampleValue":"1","isRequiredParameter":true,"parameterDataType":2,"parameterDescription":"","parameterName":"id","parameterOperator":0,"parameterPosition":0}],"wizardResponseParameters":[{"columnName":"id","exampleValue":"11","parameterDataType":2,"parameterDescription":"","parameterName":"id"}]}	For more information about the codeless API, see GetDataServiceApi JSON String for the interface wizardDetails field.

Parameter	Type	Required	Example	Description
ScriptDetails	String	No	{"isPagedResponse":false,"script":"select id as id1, name as name1 from person where id=${inputid}","scriptConnection":{"connectionId":122786,"tableName":"person"},"scriptRequestParameters":[{"defaultValue":"","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","parameterName":"inputid","parameterOperator":0,"parameterPosition":1}],"scriptResponseParameters":[{"exampleValue":"","parameterDataType":0,"parameterDescription":"","parameterName":"id1"},{"exampleValue":"","parameterDataType":0,"parameterDescription":"","parameterName":"name1"}]}	For more information about the script API, see GetDataServiceApi The JSON String for the interface scriptDetails field.

Parameter	Type	Required	Example	Description
RegistrationDetails	String	No	{"failedResultSample":"fail","registrationErrorCodes":[{"errorCode":"e1","errorMessage":"msg1","errorSolution":"sol1"},{"errorCode":"e2","errorMessage":"msg2","errorSolution":"sol2"}],"registrationRequestParameters":[{"columnName":"","defaultValue":"","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","parameterName":"id","parameterOperator":0,"parameterPosition":1},{"columnName":"","defaultValue":"xx","exampleValue":"","isRequiredParameter":true,"parameterDataType":0,"parameterDescription":"","parameterName":"cc","parameterOperator":2,"parameterPosition":2}],"serviceContentType":1,"serviceHost":"http://www.baidu.com","servicePath":"/[uid]","serviceRequestBodyDescription":"body","successfulResultSample":"success"}	For more information about how to register APIs, see GetDataServiceApi The JSON String that contains the registrationDetails fields.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the update operation was successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UpdateDataServiceApi &ApiDescription=test API description &ApiId=10000 &ApiPath=/test/2 &ProjectId=10001 &Protocols=0,1 &RegionId=cn-shanghai &RequestMethod=0 &ResponseContentType=0 &TenantId=10001 &Timeout=10000&visibilange=0 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": true, "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center For more information, see error codes.

9.7. GetDataServicePublishedApi

Queries the information about an API in the published state in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDataServicePublishedApi	The operation that you want to perform.
ApiId	Long	Yes	10001	The ID of the API to query.
ProjectId	Long	Yes	10002	The ID of the DataWorks workspace.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10003	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The latest release state information of the API.
ApiId	Long	10000	The ID of the data service API.
ApiMode	Integer	0	The type of the API. Valid values: 0 (Wizard API), 1 (Script API), and 2 (registration API).
ApiName	String	Test API	The operation that you want to perform.
ApiPath	String	/test/1	The path to the API.
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the configuration group was created.
CreatorId	String	1234567	The Alibaba Cloud ID of the project creator.
Description	String	Test API description	The description of the snapshot.
GroupId	String	ab12**	The ID of the group.
ModifiedTime	String	2020-06-23T00:21:01+0800	The time when the node instance was last modified.
OperatorId	String	2345678	The Alibaba Cloud ID of the latest editor.
ProjectId	Long	10001	The ID of the DataWorks workspace.

Parameter	Type	Example	Description
Protocols	List	0	The protocol used by the API. You can select 0(HTTP) and 1(HTTPS).
RegistrationDetails	Struct		The details of the registered API. Only the registered API is returned.
FailedResultSample	String	{"success": false}	Error return example.
RegistrationErrorCodes	Array of RegistrationErrorCode		Registers a list of API error codes.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
ErrorSolution	String	retry	Solution to the error.
RegistrationRequestParameters	Array of RegistrationRequestParameter		The request parameters of the registered API.
DefaultValue	String	default1	Auto is the default value for License Type.
ExampleValue	String	example1	Example.
IsRequiredParameter	Boolean	true	Indicates whether the service is required.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description1	The description of the snapshot.
ParameterName	String	name1	The key of parameter N.

Parameter	Type	Example	Description
ParameterOperator	Integer	0	OPERATOR. Optional enumeration values include 0(Equal), 1(Like), 2(Const), and 3(In). The codeless UI API supports Equal, Like, and In. The script-based API supports Equal. The registration API supports Equal and Const.
ParameterPosition	Integer	0	The location of the parameter. You can select 0(Path), 1(Query), 2(Head), or 3(Body). The Wizard and script APIs only support Query. The GET and DELETE methods in the registration API support Query and Head, while the PUT and POST methods support Query, Head, and Body.
ServiceContentType	Integer	0	The type of the data to be returned for the API. Valid values: 0(JSON) and 1(XML). JSON is supported for Wizard and script APIs, and JSON and XML are supported for registration APIs.
ServiceHost	String	http://example.aliyundoc.com	The backend service address
ServicePath	String	/index	The path of the backend service.
ServiceRequestBodyDescription	String	{"abc":1}	The description of the backend request body.
SuccessfulResultSample	String	{"success": true}	Sample success responses.
RequestMethod	Integer	0	The API request method. You can select 0(GET), 1(POST), 2(PUT), or 3(DELTE). The Wizard and script APIs support GET and POST. The registration API supports GET, POST, PUT, and DELETE.
ResponseContentType	Integer	0	The type of the data to be returned for the API. Valid values: 0(JSON) and 1(XML). JSON is supported for Wizard and script APIs, and JSON and XML are supported for registration APIs.
ScriptDetails	Struct		The details of the script API operation. Only script APIs are returned.

Parameter	Type	Example	Description
FailedResultSample	String	{"success": false}	Error return example.
IsPagedResponse	Boolean	true	Specifies whether to enable pagination.
Script	String	select a from t	SQL script.
ScriptConnection	Struct		The data source information about the script API.
ConnectionId	Long	123	ID of the data source.
TableName	String	t	The name of the source table.
ScriptErrorCodes	Array of ScriptErrorCode		The list of error codes of the script API.
ErrorCode	String	1001	Error codes
ErrorMessage	String	fail to call	The error message that is returned.
ErrorSolution	String	retry	Error resolution
ScriptRequestParameters	Array of ScriptRequestParameter		The request parameters of the script API.
DefaultValue	String	default1	Default value
ExampleValue	String	example1	Example
IsRequiredParameter	Boolean	true	Required

Parameter	Type	Example	Description
ParameterDataType	Integer	0	The data type. Valid values: • 0:String • 1:Int • 2:Long • 3:Float • 4:Double • 5:Boolean
ParameterDescription	String	description1	Description
ParameterName	String	param1	Parameter
ParameterOperator	Integer	0	OPERATOR. The optional enumeration values are: • 0:Equal • 1:Like • 2:Const • 3:In Supports Equal, Like, and In for Wizard API, Equal for script API, and Equal and Const for registration API.
ParameterPosition	Integer	0	The location of the parameter. The following enumerated values are available: • 0:Path • 1:Query • 2:Head • 3:Body The Wizard and script APIs support only Query, and the registration APIs support Query, Head, GET and DELETE methods, and Query, Head, and Body in PUT and POST methods.
ScriptResponseParameters	Array of ScriptResponseParameter		The response parameters of the script API.
ExampleValue	String	example2	Example.

Parameter	Type	Example	Description
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description2	The description of the snapshot.
ParameterName	String	param2	The key of parameter N.
SuccessfulResultSample	String	{"success": true}	Sample success responses.
Status	Integer	1	The status of the API. Valid values: 0 (unpublished) and 1 (published).
TenantId	Long	10001	The ID of the tenant.
Timeout	Integer	10000	The timeout period. Unit: milliseconds (ms).
VisibleRange	Integer	0	Visible range. Optional enumeration values include 0 (workspace) and 1 (private).
WizardDetails	Struct		Wizard API details. Only wizard APIs return.
FailedResultSample	String	{"success": false}	Error return example.
IsPagedResponse	Boolean	true	Specifies whether to enable pagination.
SuccessfulResultSample	String	{"success": true}	Sample success responses.
WizardConnection	Struct		The data source information for the wizard API.
ConnectionId	Long	123	ID of the data source.
TableName	String	t	The name of the source table.
WizardErrorCodes	Array of WizardErrorCode		The list of error codes for the wizard API.

Parameter	Type	Example	Description
ErrorCode	String	1001	The error code.
ErrorMessage	String	fail to call	The error message.
ErrorSolution	String	retry	Solution to the error.
WizardRequestParameters	Array of WizardRequestParameter		List of request parameters for the wizard API.
DefaultValue	String	default1	Auto is the default value for License Type.
ExampleValue	String	example1	Example.
IsRequiredParameter	Boolean	true	Indicates whether the service is required.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description1	The description of the snapshot.
ParameterName	String	param1	The key of parameter N.
ParameterOperator	Integer	0	OPERATOR. Optional enumeration values include 0(Equal), 1(Like), 2(Const), and 3(In). The codeless UI API supports Equal, Like, and In. The script-based API supports Equal. The registration API supports Equal and Const.
ParameterPosition	Integer	0	The location of the parameter. You can select 0(Path), 1(Query), 2(Head), or 3(Body). The Wizard and script APIs only support Query. The GET and DELETE methods in the registration API support Query and Head, while the PUT and POST methods support Query, Head, and Body.
WizardResponseParameters	Array of WizardResponseParameter		The list of response parameters for the wizard API.

Parameter	Type	Example	Description
ExampleValue	String	example2	Example.
ParameterDataType	Integer	0	The data type. Valid values: 0(STRING), 1(INT), 2(LONG), 3(FLOAT), 4(DOUBLE), and 5(BOOLEAN).
ParameterDescription	String	description2	The description of the snapshot.
ParameterName	String	param2	The key of parameter N.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Different fields are used to obtain the details of different types of APIs. The wizard API uses the WizardDetails field. The Script API uses the ScriptDetails field. The registration API uses the RegistrationDetails field.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=GetDataServicePublishedApi &ApiId=10001 &ProjectId=10002 &RegionId=cn-shanghai &TenantId=10003 &<common request parameters>
```

Sample success responses

`XML` format

```
    <RequestId>0000-ABCD-EFG****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data> <Status>1</Status> <VisibleRange>0</VisibleRange> <Protocols>0</Protocols> <WizardDetails> <Script>select a from t</Script> <ScriptErrorCodes> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage>fail to call</ErrorMessage> <ErrorSolution>try</ErrorSolution> </ScriptErrorCodes> <ScriptErrorCodes> <DefaultValue>default1</DefaultValue> <ExampleValue>example1</ExampleValue> <ParameterDataType>0</ParameterDataType> <ParameterPosition>0</ParameterPosition> <ParameterName>param1</ParameterName> <ParameterOperator>0</ParameterOperator>
```

```
<ParameterDescription>description1</ParameterDescription> <IsRequiredParameter>true</IsRequi
redParameter> </ScriptErrorCodes> <ScriptErrorCodes> <ExampleValue>example2</ExampleValue> <
ParameterDataType>0</ParameterDataType> <ParameterName>param2</ParameterName> <ParameterDesc
ription>description2</ParameterDescription> </ScriptErrorCodes> <ServiceContentType>0</Servi
ceContentType> <ScriptRequestParameters> <ErrorCode>Invalid.Tenant.ConnectionNotExists</Erro
rCode> <ErrorMessage>fail to call</ErrorMessage> <ErrorSolution>try</ErrorSolution> </Script
RequestParameters> <ScriptRequestParameters> <DefaultValue>default1</DefaultValue> <ExampleV
alue>example1</ExampleValue> <ParameterDataType>0</ParameterDataType> <ParameterPosition>0</
ParameterPosition> <ParameterName>param1</ParameterName> <ParameterOperator>0</ParameterOper
ator> <ParameterDescription>description1</ParameterDescription> <IsRequiredParameter>true</I
sRequiredParameter> </ScriptRequestParameters> <ScriptRequestParameters> <ExampleValue>examp
le2</ExampleValue> <ParameterDataType>0</ParameterDataType> <ParameterName>param2</Parameter
Name> <ParameterDescription>description2</ParameterDescription> </ScriptRequestParameters> <
ServicePath>/index</ServicePath> <WizardErrorCodes> <ErrorCode>Invalid.Tenant.ConnectionNotE
xists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <ErrorSolutio
n>retry</ErrorSolution> </WizardErrorCodes> <WizardErrorCodes> <DefaultValue>default1</Defau
ltValue> <ExampleValue>example1</ExampleValue> <ParameterDataType>0</ParameterDataType> <Par
ameterPosition>0</ParameterPosition> <ParameterName>param1</ParameterName> <ParameterOperato
r>0</ParameterOperator> <ParameterDescription>description1</ParameterDescription> <IsRequire
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xample2</ExampleValue> <ParameterDataType>0</ParameterDataType> <ParameterName>param2</Param
eterName> <ParameterDescription>description2</ParameterDescription> </WizardErrorCodes> <Reg
istrationErrorCodes> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <ErrorMessage
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arameterPosition> <ParameterName>name1</ParameterName> <ParameterOperator>0</ParameterOperat
or> <ParameterDescription>description1</ParameterDescription> <IsRequiredParameter>true</IsR
equiredParameter> </RegistrationErrorCodes> <WizardResponseParameters> <ErrorCode>Invalid.Te
nant.ConnectionNotExists</ErrorCode> <ErrorMessage>fail to call</ErrorMessage> <ErrorSolutio
n>retry</ErrorSolution> </WizardResponseParameters> <WizardResponseParameters> <DefaultValue
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erDataType> <ParameterPosition>0</ParameterPosition> <ParameterName>param1</ParameterName> <
ParameterOperator>0</ParameterOperator> <ParameterDescription>description1</ParameterDescrip
tion> <IsRequiredParameter>true</IsRequiredParameter> </WizardResponseParameters> <WizardRes
ponseParameters> <ExampleValue>example2</ExampleValue> <ParameterDataType>0</ParameterDataTy
pe> <ParameterName>param2</ParameterName> <ParameterDescription>description2</ParameterDescr
iption> </WizardResponseParameters> <ServiceHost>http://example.aliyundoc.com</ServiceHost>
<RegistrationRequestParameters> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <E
rrorMessage>The connection does not exist. </ErrorMessage> <ErrorSolution>retry</ErrorSoluti
on> </RegistrationRequestParameters> <RegistrationRequestParameters> <DefaultValue>default1<
/DefaultValue> <ExampleValue>example1</ExampleValue> <ParameterDataType>0</ParameterDataType
> <ParameterPosition>0</ParameterPosition> <ParameterName>name1</ParameterName> <ParameterOp
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>true</IsPagedResponse> <ServiceRequestBodyDescription>{"abc":1}</ServiceRequestBodyDescript
ion> <WizardRequestParameters> <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode> <Er
rorMessage>fail to call</ErrorMessage> <ErrorSolution>retry</ErrorSolution> </WizardRequestP
arameters> <WizardRequestParameters> <DefaultValue>default1</DefaultValue> <ExampleValue>exa
mple1</ExampleValue> <ParameterDataType>0</ParameterDataType> <ParameterPosition>0</Paramete
rPosition> <ParameterName>param1</ParameterName> <ParameterOperator>0</ParameterOperator> <P
arameterDescription>description1</ParameterDescription> <IsRequiredParameter>true</IsRequire
dParameter> </WizardRequestParameters> <WizardRequestParameters> <ExampleValue>example2</Exa
mpleValue> <ParameterDataType>0</ParameterDataType> <ParameterName>param2</ParameterName> <P
arameterDescription>description2</ParameterDescription> </WizardRequestParameters> <Successf
```

ulResultSample>{"success": true}</SuccessfulResultSample> <WizardConnection> <TableName>t</T
ableName> <ConnectionId>123</ConnectionId> </WizardConnection> <FailedResultSample>{"success
": false}</FailedResultSample> <ScriptResponseParameters> <ErrorCode>Invalid.Tenant.Connecti
onNotExists</ErrorCode> <ErrorMessage>The connection does not exist. </ErrorMessage> <ErrorS
olution> try </ErrorSolution> </ScriptResponseParameters> <ScriptResponseParameters> <Defaul
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0 </ParameterDataType> <ParameterPosition> 0 </ParameterPosition> <ParameterName> param1 </P
arameterName> <ParameterOperator> 0 </ParameterOperator> <ParameterDescription> description1
</ParameterDescription> <IsRequiredParameter> true </IsRequiredParameter> </ScriptResponsePa
rameters> <ScriptResponseParameters> <ExampleValue> example2 </ExampleValue> <ParameterDataT
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escription2 </ParameterDescription> </ScriptResponseParameters> <ScriptConnection> <TableNam
e> t </TableName> <ConnectionId> 123 </ConnectionId> </ScriptConnection> </WizardDetails> <C
reatedTime> 2020-06-23 T00:21:01+0800 </CreatedTime> <Description> test for more information
about the API description </Description> <ApiName> test the API name </ApiName> <CreatorId>
1234567 </CreatorId> <RequestMethod> 0 </RequestMethod> <Timeout> 10000 </Timeout> <ProjectI
d> 10001 </ProjectId> <ResponseContentType> 0 </ResponseContentType> <OperatorId> 2345678 </
OperatorId> <RegistrationDetails> <Script> select a from t </Script> <ScriptErrorCodes> <Err
orCode> Invalid.Tenant.ConnectionNotExists </ErrorCode> <ErrorMessage> fail to call </ErrorM
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</ParameterDescription> <IsRequiredParameter> true </IsRequiredParameter> </ScriptErrorCodes
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rameterDescription> </ScriptErrorCodes> <ServiceContentType> 0 </ServiceContentType> <Script
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> The connection does not exist. </ErrorMessage> <ErrorSolution>try</ErrorSolution> </Script
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Name> <ParameterDescription>description2</ParameterDescription> </ScriptRequestParameters> <
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>The connection does not exist. </ErrorMessage> <ErrorSolution>retry</ErrorSolution> </Regis
trationErrorCodes> <RegistrationErrorCodes> <DefaultValue>default1</DefaultValue> <ExampleVa
lue>example1</ExampleValue> <ParameterDataType>0</ParameterDataType> <ParameterPosition>0</P
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or> <ParameterDescription>description1</ParameterDescription> <IsRequiredParameter>true</IsR
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ters> <DefaultValue>default1</DefaultValue> <ExampleValue>example1</ExampleValue> <Parameter
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1</ParameterDescription> <IsRequiredParameter>true</IsRequiredParameter> </WizardResponsePar
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on2</ParameterDescription> </WizardResponseParameters> <ServiceHost>http://example.aliyundoc
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rameterOperator> <ParameterDescription>description1</ParameterDescription> <IsRequiredParame
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JSON Format

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Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Activate DataWorks first.	You have restricted access. Please activate DataWorks Enterprise Edition or above.
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center For more information, see error codes.

9.8. ListDataServicePublishedApis

Queries the information about APIs in the published state.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServicePublishedApis	The operation that you want to perform. Set the value to **ListDataServicePublishedApis**.
RegionId	String	Yes	cn-shanghai	The ID of the region.

Parameter	Type	Required	Example	Description
PageNumber	Integer	Yes	1	The number of the page to return. Pages start from page 1. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. A maximum of 100 entries can be returned on each page.
ProjectId	Long	Yes	10000	The ID of the workspace.
TenantId	Long	Yes	10001	The ID of the tenant.
ApiNameKeyword	String	No	My API name	The keyword in the name of the API. The keyword can be used to search for the API whose name contains the keyword.
ApiPathKeyword	String	No	/test/	The keyword in the path of the API. The keyword can be used to search for the API whose path contains the keyword.
CreatorId	String	No	12345	The ID of the Alibaba Cloud account used by the creator of the API. The ID can be used to search for the API created by the creator.

Response parameters

Parameter	Type	Example	Description
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The ID of the request.
ErrorMessage	String	The connection does not exist.	The error message.
Success	Boolean	true	Indicates whether the request is successful.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.

Parameter	Type	Example	Description
Data	Object		The APIs in the published state.
PageNumber	Integer	1	The page number of the returned page. The value of this parameter is the same as that of the PageNumber parameter in the request.
PageSize	Integer	10	The number of entries returned per page. Default value: 10. A maximum of 100 entries can be returned on each page.
TotalCount	Integer	100	The total number of entries.
Apis	Array of Api		The information about the APIs in the published state.
Timeout	Integer	10000	The timeout period of the API request. Unit: milliseconds.
Status	Integer	1	The status of the API. Valid values: 0 and 1. A value of 0 indicates that the API is not published. A value of 1 indicates that the API is published.
ApiId	Long	10002	The ID of the API.
ApiMode	Integer	0	The type of the API. Valid values: 0, 1, and 2. A value of 0 indicates that the API is generated in wizard mode. A value of 1 indicates that the API is generated in script mode. A value of 2 indicates that the API is generated by registration.
ProjectId	Long	10000	The ID of the workspace.

Parameter	Type	Example	Description
ResponseContentType	Integer	0	The format in which the response of the API request is returned. Valid values: 0 and 1. A value of 0 indicates the JSON format. A value of 1 indicates the XML format. APIs generated in wizard or script mode support the JSON format. APIs generated by registration support the JSON and XML formats.
CreatorId	String	1234567	The ID of the Alibaba Cloud account used by the creator of the API.
VisibleRange	Integer	0	The scope in which the API is visible. Valid values: 0 and 1. A value of 0 indicates that the API is visible within the workspace. A value of 1 indicates that the API is visible only to the API creator.
ModifiedTime	String	2020-06-23T00:21:01+0800	The time when the API was last modified.
OperatorId	String	2345678	The ID of the Alibaba Cloud account used by the user who last modified the API.
GroupId	String	ab123	The ID of the API group.
Description	String	API description	The description of the API.
RequestMethod	Integer	0	The request method of the API. Valid values: 0, 1, 2, and 3. A value of 0 indicates the GET method. A value of 1 indicates the POST method. A value of 2 indicates the PUT method. A value of 3 indicates the DELETE method. APIs generated in wizard or script mode support the GET and POST methods. APIs generated by registration support the GET, POST, PUT, and DELETE methods.
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the API was created.

Parameter	Type	Example	Description
ApiName	String	My API name	The name of the API.
TenantId	Long	10001	The ID of the tenant.
ApiPath	String	/test/1	The path of the API.
Protocols	Array of Integer	0	The protocol used by the API. Valid values: 0 and 1. A value of 0 indicates that the API uses HTTP. A value of 1 indicates that the API uses HTTPS.
RegistrationDetails	Object		The details of the API generated by registration. This parameter is returned only if the API is generated by registration.
ServiceHost	String	http://example.aliyundoc.com	The URL of the backend service.
ServiceContentType	Integer	0	The format in which the response of the API request is returned. Valid values: 0 and 1. A value of 0 indicates the JSON format. A value of 1 indicates the XML format. APIs generated in wizard or script mode support the JSON format. APIs generated by registration support the JSON and XML formats.
ServicePath	String	/index	The path of the backend service.
SuccessfulResultSample	String	null	The sample success response of the API.
FailedResultSample	String	null	The sample error response of the API.
ServiceRequestBodyDescription	String	null	The body of the request initiated to call the backend service.
RegistrationErrorCodes	Array of RegistrationErrorCode		The error codes returned for the API generated by registration.
ErrorMessage	String	fail to call	The error message.

Parameter	Type	Example	Description
ErrorCode	String	1001	The error code.
ErrorSolution	String	retry	The solution used to resolve the issue.
RegistrationRequestParameters	Array of RegistrationRequestParameter		The request parameters of the API generated by registration.
ParameterName	String	name1	The name of the parameter.
ParameterPosition	Integer	0	The position of the parameter. Valid values: • 0: Path • 1: Query • 2: Head • 3: Body APIs generated in wizard or script mode support only the Query position. APIs generated by registration whose request method is GET or DELETE support the Query and Head positions. APIs generated by registration whose request method is PUT or POST support the Query, Head, and Body positions.
ParameterDescription	String	description1	The description of the parameter.
DefaultValue	String	default1	The default value of the parameter.
ParameterOperator	Integer	0	The operator used for the value of the parameter. Valid values: • 0: Equal • 1: Like • 2: Const • 3: In APIs generated in wizard mode support the Equal, Like, and In operators. APIs generated in script mode support the Equal operator. APIs generated by registration support the Equal and Const operators.

Parameter	Type	Example	Description
ExampleValue	String	example1	The sample value of the parameter.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: • 0: STRING • 1: INT • 2: LONG • 3: FLOAT • 4: DOUBLE • 5: BOOLEAN
IsRequiredParameter	Boolean	true	Indicates whether the request parameter is required.
ScriptDetails	Object		The details of the API generated in script mode. This parameter is returned only if the API is generated in script mode.
IsPagedResponse	Boolean	true	Indicates whether the entries are returned by page.
SuccessfulResultSample	String	null	The sample success response of the API.
FailedResultSample	String	null	The sample error response of the API.
Script	String	select a from t	The SQL script.
ScriptErrorCodes	Array of ScriptErrorCode		The error codes returned for the API generated in script mode.
ErrorMessage	String	fail to call	The error message.
ErrorCode	String	1001	The error code.
ErrorSolution	String	retry	The solution used to resolve the issue.
ScriptRequestParameters	Array of ScriptRequestParameter		The request parameters of the API generated in script mode.

Parameter	Type	Example	Description
ParameterName	String	param1	The name of the parameter.
ParameterPosition	Integer	0	The position of the parameter. Valid values: • 0: Path • 1: Query • 2: Head • 3: Body APIs generated in wizard or script mode support only the Query position. APIs generated by registration whose request method is GET or DELETE support the Query and Head positions. APIs generated by registration whose request method is PUT or POST support the Query, Head, and Body positions.
ParameterDescription	String	description1	The description of the parameter.
DefaultValue	String	default1	The default value of the parameter.
ParameterOperator	Integer	0	The operator used for the value of the parameter. Valid values: • 0: Equal • 1: Like • 2: Const • 3: In APIs generated in wizard mode support the Equal, Like, and In operators. APIs generated in script mode support the Equal operator. APIs generated by registration support the Equal and Const operators.
ExampleValue	String	example1	The sample value of the parameter.

Parameter	Type	Example	Description
ParameterDataType	Integer	0	The data type of the parameter. Valid values: • 0: STRING • 1: INT • 2: LONG • 3: FLOAT • 4: DOUBLE • 5: BOOLEAN
IsRequiredParameter	Boolean	true	Indicates whether the request parameter is required.
ScriptResponseParameters	Array of ScriptResponseParameter		The response parameters of the API generated in script mode.
ParameterDescription	String	description2	The description of the parameter.
ParameterName	String	param2	The name of the parameter.
ExampleValue	String	example2	The sample value of the parameter.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: • 0: STRING • 1: INT • 2: LONG • 3: FLOAT • 4: DOUBLE • 5: BOOLEAN
ScriptConnection	Object		The data source information of the API generated in script mode.
TableName	String	t	The name of the table in the data source.
ConnectionId	Long	123	The ID of the data source.

Parameter	Type	Example	Description
WizardDetails	Object		The details of the API generated in wizard mode. This parameter is returned only if the API is generated in wizard mode.
IsPagedResponse	Boolean	true	Indicates whether the entries are returned by page.
SuccessfulResultSample	String	null	The sample success response of the API.
FailedResultSample	String	null	The sample error response of the API.
WizardErrorCodes	Array of WizardErrorCode		The error codes returned for the API generated in wizard mode.
ErrorMessage	String	fail to call	The error message.
ErrorCode	String	1001	The error code.
ErrorSolution	String	retry	The solution used to resolve the issue.
WizardRequestParameters	Array of WizardRequestParameter		The request parameters of the API generated in wizard mode.
ParameterName	String	param1	The name of the parameter.

Parameter	Type	Example	Description
ParameterPosition	Integer	0	The position of the parameter. Valid values: 0, 1, 2, and 3. A value of 0 indicates that the parameter is in the URL path of the request. A value of 1 indicates that the parameter is in the Query parameter of the request URL. A value of 2 indicates that the parameter is in the request header. A value of 3 indicates that the parameter is in the request body. APIs generated in wizard or script mode support only the Query position. APIs generated by registration whose request method is GET or DELETE support the Query and Head positions. APIs generated by registration whose request method is PUT or POST support the Query, Head, and Body positions.
ParameterDescription	String	description1	The description of the parameter.
DefaultValue	String	default1	The default value of the parameter.
ParameterOperator	Integer	0	The operator used for the value of the parameter. Valid values: 0, 1, 2, and 3. A value of 0 indicates that the operator is Equal. A value of 1 indicates that the operator is Like. A value of 2 indicates that the operator is Const. A value of 3 indicates that the operator is In. APIs generated in wizard mode support the Equal, Like, and In operators. APIs generated in script mode support the Equal operator. APIs generated by registration support the Equal and Const operators.
ExampleValue	String	example1	The sample value of the parameter.

Parameter	Type	Example	Description
ParameterDataType	Integer	0	The data type of the parameter. Valid values: 0, 1, 2, 3, 4, and 5. A value of 0 indicates the STRING data type. A value of 1 indicates the INT data type. A value of 2 indicates the LONG data type. A value of 3 indicates the FLOAT data type. A value of 4 indicates the DOUBLE data type. A value of 5 indicates the BOOLEAN data type.
IsRequiredParameter	Boolean	true	Indicates whether the request parameter is required.
WizardResponseParameters	Array of WizardResponseParameter		The response parameters of the API generated in wizard mode.
ParameterDescription	String	description2	The description of the parameter.
ParameterName	String	param2	The name of the parameter.
ExampleValue	String	example2	The sample value of the parameter.
ParameterDataType	Integer	0	The data type of the parameter. Valid values: 0, 1, 2, 3, 4, and 5. A value of 0 indicates the STRING data type. A value of 1 indicates the INT data type. A value of 2 indicates the LONG data type. A value of 3 indicates the FLOAT data type. A value of 4 indicates the DOUBLE data type. A value of 5 indicates the BOOLEAN data type.
WizardConnection	Object		The data source information of the API generated in wizard mode.
TableName	String	t	The name of the table in the data source.
ConnectionId	Long	123	The ID of the data source.

The details about the APIs of different types are returned in different parameters. The details about the API generated in wizard mode are returned in the WizardDetails parameter. The details about the API generated in script mode are returned in the ScriptDetails parameter. The details about the API generated by registration are returned in the RegistrationDetails parameter.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListDataServicePublishedApis
&PageNumber=1
&PageSize=10
&ProjectId=10000
&TenantId=10001
&ApiNameKeyword=My API name
&ApiPathKeyword=/test/
&CreatorId=12345
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListDataServicePublishedApisResponse>
    <HttpStatusCode>200</HttpStatusCode>
    <RequestId>0000-ABCD-EFG****</RequestId>
    <ErrorMessage>The connection does not exist.</ErrorMessage>
    <Success>true</Success>
    <ErrorCode>Invalid.Tenant.ConnectionNotExists</ErrorCode>
    <Data>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>100</TotalCount>
        <Apis>
            <Timeout>10000</Timeout>
            <Status>1</Status>
            <ApiId>10002</ApiId>
            <ApiMode>0</ApiMode>
            <ProjectId>10000</ProjectId>
            <ResponseContentType>0</ResponseContentType>
            <CreatorId>1234567</CreatorId>
            <VisibleRange>0</VisibleRange>
            <ModifiedTime>2020-06-23T00:21:01+0800</ModifiedTime>
            <OperatorId>2345678</OperatorId>
            <GroupId>ab123</GroupId>
            <Description>API description</Description>
            <RequestMethod>0</RequestMethod>
            <CreatedTime>2020-06-23T00:21:01+0800</CreatedTime>
            <ApiName>My API name</ApiName>
            <TenantId>10001</TenantId>
            <ApiPath>/test/1</ApiPath>
            <Protocols>0</Protocols>
            <RegistrationDetails>
                <ServiceHost>http://example.aliyundoc.com</ServiceHost>
                <ServiceContentType>0</ServiceContentType>
                <ServicePath>/index</ServicePath>
                <SuccessfulResultSample>{"success": true}</SuccessfulResultSample>
                <FailedResultSample>{"success": false}</FailedResultSample>
                <ServiceRequestBodyDescription>{"abc":1}</ServiceRequestBodyDescription>
                <RegistrationErrorCodes>
```

```
            <RegistrationErrorCodes>
                <ErrorMessage>fail to call</ErrorMessage>
                <ErrorCode>1001</ErrorCode>
                <ErrorSolution>retry</ErrorSolution>
            </RegistrationErrorCodes>
            <RegistrationRequestParameters>
                <ParameterName>name1</ParameterName>
                <ParameterPosition>0</ParameterPosition>
                <ParameterDescription>description1</ParameterDescription>
                <DefaultValue>default1</DefaultValue>
                <ParameterOperator>0</ParameterOperator>
                <ExampleValue>example1</ExampleValue>
                <ParameterDataType>0</ParameterDataType>
                <IsRequiredParameter>true</IsRequiredParameter>
            </RegistrationRequestParameters>
        </RegistrationDetails>
        <ScriptDetails>
            <IsPagedResponse>true</IsPagedResponse>
            <SuccessfulResultSample>{"success": true}</SuccessfulResultSample>
            <FailedResultSample>{"success": false}</FailedResultSample>
            <Script>select a from t</Script>
            <ScriptErrorCodes>
                <ErrorMessage>fail to call</ErrorMessage>
                <ErrorCode>1001</ErrorCode>
                <ErrorSolution>retry</ErrorSolution>
            </ScriptErrorCodes>
            <ScriptRequestParameters>
                <ParameterName>param1</ParameterName>
                <ParameterPosition>0</ParameterPosition>
                <ParameterDescription>description1</ParameterDescription>
                <DefaultValue>default1</DefaultValue>
                <ParameterOperator>0</ParameterOperator>
                <ExampleValue>example1</ExampleValue>
                <ParameterDataType>0</ParameterDataType>
                <IsRequiredParameter>true</IsRequiredParameter>
            </ScriptRequestParameters>
            <ScriptResponseParameters>
                <ParameterDescription>description2</ParameterDescription>
                <ParameterName>param2</ParameterName>
                <ExampleValue>example2</ExampleValue>
                <ParameterDataType>0</ParameterDataType>
            </ScriptResponseParameters>
            <ScriptConnection>
                <TableName>t</TableName>
                <ConnectionId>123</ConnectionId>
            </ScriptConnection>
        </ScriptDetails>
        <WizardDetails>
            <IsPagedResponse>true</IsPagedResponse>
            <SuccessfulResultSample>{"success": true}</SuccessfulResultSample>
            <FailedResultSample>{"success": false}</FailedResultSample>
            <WizardErrorCodes>
                <ErrorMessage>fail to call</ErrorMessage>
                <ErrorCode>1001</ErrorCode>
                <ErrorSolution>retry</ErrorSolution>
```

```
                </WizardErrorCodes>
                <WizardRequestParameters>
                    <ParameterName>param1</ParameterName>
                    <ParameterPosition>0</ParameterPosition>
                    <ParameterDescription>description1</ParameterDescription>
                    <DefaultValue>default1</DefaultValue>
                    <ParameterOperator>0</ParameterOperator>
                    <ExampleValue>example1</ExampleValue>
                    <ParameterDataType>0</ParameterDataType>
                    <IsRequiredParameter>true</IsRequiredParameter>
                </WizardRequestParameters>
                <WizardResponseParameters>
                    <ParameterDescription>description2</ParameterDescription>
                    <ParameterName>param2</ParameterName>
                    <ExampleValue>example2</ExampleValue>
                    <ParameterDataType>0</ParameterDataType>
                </WizardResponseParameters>
                <WizardConnection>
                    <TableName>t</TableName>
                    <ConnectionId>123</ConnectionId>
                </WizardConnection>
            </WizardDetails>
        </Apis>
    </Data>
</ListDataServicePublishedApisResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpStatusCode" : 200,
  "RequestId" : "0000-ABCD-EFG****",
  "ErrorMessage" : "The connection does not exist.",
  "Success" : true,
  "ErrorCode" : "Invalid.Tenant.ConnectionNotExists",
  "Data" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 100,
    "Apis" : {
      "Timeout" : 10000,
      "Status" : 1,
      "ApiId" : 10002,
      "ApiMode" : 0,
      "ProjectId" : 10000,
      "ResponseContentType" : 0,
      "CreatorId" : 1234567,
      "VisibleRange" : 0,
      "ModifiedTime" : "2020-06-23T00:21:01+0800",
      "OperatorId" : 2345678,
      "GroupId" : "ab123",
      "Description" : "API description",
      "RequestMethod" : 0,
```

```
        "CreatedTime" : "2020-06-23T00:21:01+0800",
        "ApiName" : "My API name",
        "TenantId" : 10001,
        "ApiPath" : "/test/1",
        "Protocols" : 0,
        "RegistrationDetails" : {
          "ServiceHost" : "http://example.aliyundoc.com",
          "ServiceContentType" : 0,
          "ServicePath" : "/index",
          "SuccessfulResultSample" : "{\"success\": true}",
          "FailedResultSample" : "{\"success\": false}",
          "ServiceRequestBodyDescription" : "{\"abc\":1}",
          "RegistrationErrorCodes" : {
            "ErrorMessage" : "fail to call",
            "ErrorCode" : 1001,
            "ErrorSolution" : "retry"
          },
          "RegistrationRequestParameters" : {
            "ParameterName" : "name1",
            "ParameterPosition" : 0,
            "ParameterDescription" : "description1",
            "DefaultValue" : "default1",
            "ParameterOperator" : 0,
            "ExampleValue" : "example1",
            "ParameterDataType" : 0,
            "IsRequiredParameter" : true
          }
        },
        "ScriptDetails" : {
          "IsPagedResponse" : true,
          "SuccessfulResultSample" : "{\"success\": true}",
          "FailedResultSample" : "{\"success\": false}",
          "Script" : "select a from t",
          "ScriptErrorCodes" : {
            "ErrorMessage" : "fail to call",
            "ErrorCode" : 1001,
            "ErrorSolution" : "retry"
          },
          "ScriptRequestParameters" : {
            "ParameterName" : "param1",
            "ParameterPosition" : 0,
            "ParameterDescription" : "description1",
            "DefaultValue" : "default1",
            "ParameterOperator" : 0,
            "ExampleValue" : "example1",
            "ParameterDataType" : 0,
            "IsRequiredParameter" : true
          },
          "ScriptResponseParameters" : {
            "ParameterDescription" : "description2",
            "ParameterName" : "param2",
            "ExampleValue" : "example2",
            "ParameterDataType" : 0
          },
          "ScriptConnection" : {
```

```
        "ScriptConnection" : {
          "TableName" : "t",
          "ConnectionId" : 123
        }
      },
      "WizardDetails" : {
        "IsPagedResponse" : true,
        "SuccessfulResultSample" : "{\"success\": true}",
        "FailedResultSample" : "{\"success\": false}",
        "WizardErrorCodes" : {
          "ErrorMessage" : "fail to call",
          "ErrorCode" : 1001,
          "ErrorSolution" : "retry"
        },
        "WizardRequestParameters" : {
          "ParameterName" : "param1",
          "ParameterPosition" : 0,
          "ParameterDescription" : "description1",
          "DefaultValue" : "default1",
          "ParameterOperator" : 0,
          "ExampleValue" : "example1",
          "ParameterDataType" : 0,
          "IsRequiredParameter" : true
        },
        "WizardResponseParameters" : {
          "ParameterDescription" : "description2",
          "ParameterName" : "param2",
          "ExampleValue" : "example2",
          "ParameterDataType" : 0
        },
        "WizardConnection" : {
          "TableName" : "t",
          "ConnectionId" : 123
        }
      }
    }
  }
}
```


Error codes

HTTP status code	Error code	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	The error message returned because an internal error has occurred. Try again later.

HTTP status code	Error code	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	The error message returned because you are not allowed to perform this operation. Activate DataWorks Enterprise Edition or DataWorks Ultimate Edition.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The error message returned because the number of requests for the resource has exceeded the upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	The error message returned because the DataWorks system is busy. Try again later.
429	Throttling.User	Your request is too frequent. Try again later.	The error message returned because excessive requests have been submitted within a short period of time. Try again later.

For a list of error codes, visit the API Error Center.

9.9. ListDataServiceApiAuthorities

Queries the APIs on which other users are granted the access permissions.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServiceApiAuthorities	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page. Pages start from 1. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10001	The ID of the tenant.
ApiNameKeyword	String	No	My API name	The keyword of the API name. You can obtain all APIs whose names contain the keyword from the specified filtering condition.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The list of APIs authorized to other users.
ApiAuthorizationList	Array of ApiAuthorization		The list of APIs authorized to others and the corresponding authorization details.
ApiId	Long	10002	The ID of the API to query.
ApiName	String	My API name	The operation that you want to perform.
ApiPath	String	/test/1	The path to the API.
ApiStatus	Integer	0	The status of the API. Valid values: 0 (unpublished) and 1 (published).
AuthorizationRecords	Array of AuthorizationRecord		The details of the permission granted to others.
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the policy was attached.
CreatorId	String	12345	The Alibaba Cloud User ID of the authorizer.
EndTime	String	2020-06-24T00:21:01+0800	The validity period of the authorization.

Parameter	Type	Example	Description
ProjectId	Long	10004	The ID of the workspace to which the role is attached.
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the API was created.
CreatorId	String	12345	The Alibaba Cloud ID of the API owner.
GroupId	String	ab123	The ID of the group.
ModifiedTime	String	2020-06-23T00:21:01+0800	The time when the API was last updated.
ProjectId	Long	10000	The ID of the DataWorks workspace.
TenantId	Long	10001	The ID of the tenant.
PageNumber	Integer	1	The number of the page, which is consistent with the PageNumber value in the request.
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Integer	100	The total number of entries.
ErrorCode	String	0	The error code.
ErrorMessage	String	Normal	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListDataServiceApiAuthorities &PageNumber=1 &PageSize=10 &ProjectId=10000 &RegionId=cn-shanghai &TenantId=10001 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <ApiAuthorizationList> <TenantId> 10001 </TenantId> <CreatedTime> 2020-06-23t00:21:01+0800 </CreatedTime> <ModifiedTime> 2020-06-23 T00:21:01+0800 </ModifiedTime> <ApiName> I name of the API </ApiName> <CreatorId> 12345 </CreatorId> <ApiStatus> 0 </ApiStatus> <ProjectId> 10000 </ProjectId> <ApiId> 10002 </ApiId> <ApiPath> /test/1 </ApiPath> <GroupId> ab123 </GroupId> </ApiAuthorizationList> <ApiAuthorizationList> <AuthorizationRecords> <CreatedTime> 2020-06-23 T00:21:01+0800 </CreatedTime> <EndTime> 2020-06-24 T00:21:01+0800 </EndTime> <CreatorId> 12345 </CreatorId> <ProjectId> 10004 </ProjectId> </AuthorizationRecords> </ApiAuthorizationList> </Data> <ErrorCode> 0 </ErrorCode> <ErrorMessage> normal </ErrorMessage> <Success> true </Success>
```

`JSON` Format

```
{"RequestId": "0000-abcd-EFG %}*", "HttpStatusCode": 200, "Data": { "TotalCount": 100, "PageSize": 10, "PageNumber": 1, "ApiAuthorizationList": [ { "TenantId": 10001, "CreatedTime": "20-0206-23t00: 21:01+0800", "ModifiedTime": "2020-06-23T00:21:01+0800", "ApiName": "My API name", " CreatorId": 12345, "ApiStatus": 0, "ProjectId": 10000, "ApiId": 10002, "ApiPath": "/test/1", "GroupId": "ab123" }, { "AuthorizationRecords": { "CreatedTime": "2020-06-23T00:21:01+0800", "EndTime": "2020-06-24T00:21:01+0800", "CreatorId": 12345, "ProjectId": 10004} } ] }, "ErrorCode": 0, "ErrorMessage": "normal", "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

HttpCode	Error codes	Error message	Description
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.10. ListDataServiceAuthorizedApis

Queries authorized APIs.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServiceAuthorizedApis	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page. Pages start from 1. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10001	The ID of the tenant.
ApiNameKeyword	String	No	My API name	The keyword of the API name. You can obtain all APIs whose names contain the keyword from the specified filtering condition.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The information about the authorized API.
ApiAuthorizedList	Array of ApiAuthorized		The list of authorized APIs.
ApiId	Long	10002	The ID of the API to query.
ApiName	String	My API name	The operation that you want to perform.
ApiPath	String	/test/1	The path to the API.
ApiStatus	Integer	0	The status of the API. Valid values: 0 (unpublished) and 1 (published).
CreatedTime	String	2020-06-23T00:21:01+0800	The time when the API was created.
CreatorId	String	12345	Alibaba Cloud ID of the API owner
GrantCreatedTime	String	2020-06-23T00:21:01+0800	The time when the API was authorized.
GrantEndTime	String	2020-06-24T00:21:01+0800	The time when the API authorization expires.
GrantOperatorId	String	23456	The Alibaba Cloud ID of the authorizer.
GroupId	String	abcde123456789	The ID of the group.
ModifiedTime	String	2020-06-23T00:21:01+0800	The time when the API was last updated.
ProjectId	Long	10000	The ID of the DataWorks workspace.
TenantId	Long	10001	The ID of the tenant.
PageNumber	Integer	1	The number of the page, which is consistent with the PageNumber value in the request.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Integer	100	The total number of entries.
ErrorCode	String	1031203110005	The error code.
ErrorMessage	String	The specified parameters are invalid.	The error message that is returned.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListDataServiceAuthorizedApis &PageNumber=1 &PageSize=10 &ProjectId=10000 &RegionId=cn-shanghai &TenantId=10001 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <ApiAuthorizedList> <GrantEndTime> 2020-06-24t00:21:01+0800 </GrantEndTime> <CreatedTime> 2020-06-23t00:21:01+0800 </CreatedTime> <ApiName> I name of the API </ApiName> <CreatorId> 12345 </CreatorId> <ApiStatus> 0 </ApiStatus> <ProjectId> 10000 </ProjectId> <GrantCreatedTime> 2020-06-23 T00:21:01+0800 </GrantCreatedTime> <GroupId> abcde123456789 </GroupId> <TenantId> 10001 </TenantId> <ModifiedTime> 2020-06-23 T00:21:01+0800 </ModifiedTime> <GrantOperatorId> 23456 </GrantOperatorId> <ApiId> 10002 </ApiId> <ApiPath> /test/1 </ApiPath> </ApiAuthorizedList> </Data> <ErrorCode> 1031203110005 </ErrorCode> <ErrorMessage> The specified parameters are invalid. </ErrorMessage> <Success>true</Success>
```

`JSON` Format

```
    {"RequestId": "0000-abcd-EFG ******", "HttpStatusCode": 200, "Data": { "TotalCount": 10
0, "PageSize": 10, "PageNumber": 1, "ApiAuthorizedList": { "GrantEndTime": "2020-06-24T00:21
: +01" 0800, "CreatedTime": "" 2020-06-23T00:21:01+0800 ", " ApiName ": " My API name ", " C
reatorId ": 12345, " ApiStatus": 0, "ProjectId": 10000, "GrantCreatedTime": "2020-06-23T00:2
1:01+0800", "GroupId": "abcde123456789", "TenantId": 10001, "ModifiedTime": "2020-06-23T00:2
1:01+0800", "GrantOperatorId": 23456, "ApiId": 10002, "ApiPath": "/test/1" } }, "ErrorCode":
1031203110005, "ErrorMessage":" The specified parameters are invalid.", "Success": true}
```


Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId. Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.11. AbolishDataServiceApi

Unpublishes an API in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AbolishDataServiceApi	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ApiId	Long	Yes	10000	The ID of the data service API.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the APIs in dataservice studio were unpublished.
ErrorCode	String	Invalid.Tenant.ConnectionNotExists	The error code.
ErrorMessage	String	The connection does not exist.	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=AbolishDataServiceApi &ApiId=10000 &ProjectId=10001 &RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId> <HttpStatusCode>200</HttpStatusCode> <Data>true</Data> <Success>true</Success>
```

JSON Hint

```
{ "RequestId": "0000-ABCD-EFG****", "HttpStatusCode": 200, "Data": true, "Success": true }
```

Error code

Go to the Error Center For more information, see error codes.

9.12. GetDataServiceApplication

Queries the details of an application in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDataServiceApplication	The operation that you want to perform.
ApplicationId	Long	Yes	10000	The ID of the application.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Data	Struct		App Details
ApplicationCode	String	CODE123	AppCode.
ApplicationId	Long	10000	The ID of the application.

Parameter	Type	Example	Description
ApplicationKey	String	KEY123	AppKey.
ApplicationName	String	Test application	The name of the application.
ApplicationSecret	String	SECRET123	AppSecret.
ProjectId	Long	10001	The ID of the associated workspace.
ErrorCode	String	0	The error code.
ErrorMessage	String	Normal	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG****	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetDataServiceApplication &ApplicationId=10000 &ProjectId=10001 &RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg****** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <ApplicationKey> KEY123 </ApplicationKey> <ApplicationName> test application </ApplicationName> <ApplicationSecret> SECRET123 </ApplicationSecret> <ProjectId> 10001 </ProjectId> <ApplicationId> 10000 </ApplicationId> <ApplicationCode> CODE123 </ApplicationCode> </Data> <ErrorCode> 0 </ErrorCode> <ErrorMessage> normal </ErrorMessage> <Success> true </Success>
```

`JSON` Format

```
{"RequestId": "0000-abcd-EFG ******", "HttpStatusCode": 200, "Data": { "ApplicationKey"
: "KEY123", "ApplicationName": "Test application", "ApplicationSecret": "SECRET123", "Projec
tId": 10001, "ApplicationId": 100000, "ApplicationCode": "" "CODE123" }, "ErrorCode": 0, "Er
rorMessage": "Normal", "Success": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.13. ListDataServiceApplications

Queries the basic information of applications in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServiceApplications	The operation that you want to perform.

Parameter	Type	Required	Example	Description
PageNumber	Integer	Yes	1	The number of the page. Pages start from 1. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ProjectIdList	String	Yes	10000,100001	Specify a workspace ID to query the application. Multiple values are supported, and multiple values are separated by a comma (,). At least one workspace ID can be specified. A maximum of 50 workspaces can be specified.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	100002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Data	Struct		The obtained basic information of the application.
Applications	Array of Application		The basic information of the application.
ApplicationId	Long	20000	The ID of the application.
ApplicationName	String	My Applications	The name of the application.
ProjectId	Long	10000	The ID of the DataWorks workspace.
PageNumber	Integer	1	The number of the page, which is consistent with the PageNumber value in the request.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Integer	100	The total number of entries.
ErrorCode	String	0	The error code.
ErrorMessage	String	Normal	The error message.
HttpStatusCode	Integer	200	The HTTP status code.
RequestId	String	0000-ABCD-EFG***	The unique ID of the request.
Success	Boolean	true	Indicates whether the request was successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListDataServiceApplications &PageNumber=1 &PageSize=10 &ProjectIdList=10000,100001 &RegionId=cn-shanghai &TenantId=100002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-efg**** </RequestId> <HttpStatusCode> 200 </HttpStatusCode> <Data> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <Applications> <ApplicationName> my application </ApplicationName> <ProjectId> 10000 </ProjectId> <ApplicationId> 20000 </ApplicationId> </Applications> <PageNumber> 1 </PageNumber> </Data> <ErrorCode> 0 </ErrorCode> <ErrorMessage> normal </ErrorMessage> <Success> true </Success>
```

`JSON` Format

```
{"RequestId": "0000-abcd-EFG ${{*", "HttpStatusCode": 200, "Data": { "TotalCount": 100, "PageSize": 10, "Applications": { "ApplicationName": "My Applications", "ProjectId": 100000, "ApplicationId": 20000 }, "PageNumber": 1 }, "ErrorCode": 0, " ErrorMessage ": " normal ", " Success ": true}
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.14. CreateDataServiceFolder

Creates a folder in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDataServiceFolder	The operation that you want to perform.
FolderName	String	Yes	Test folder	The name of the folder.
GroupId	String	Yes	1000abcd	The workflow of the target ID. for the folder

Parameter	Type	Required	Example	Description
ParentId	Long	Yes	0	The destination parent folder ID of the folder. Workflow the root folder ID is equal to 0, the user-created folder ID is greater than 0.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
FolderId	Long	123	The ID of the folder.
RequestId	String	0000-ABCD-E****	The unique ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateDataServiceFolder &FolderName=test folder&GroupId=1000abcd &ParentId=0 &ProjectId=10001 &RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-E****</RequestId> <FolderId>123</FolderId>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-E****", "FolderId": 123 }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.15. GetDataServiceFolder

Queries a folder in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDataServiceFolder	The operation that you want to perform.
FolderId	Long	Yes	10001	ID of the folder.
ProjectId	Long	Yes	10002	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.

Parameter	Type	Required	Example	Description
TenantId	Long	Yes	10003	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Folder	Struct		Folder details.
CreatedTime	String	2020-09-24T18:37:51+0800	The time when the folder was created.
FolderId	Long	11	ID of the folder.
FolderName	String	test1	The name of the folder.
GroupId	String	ds_1234	The ID of the workflow to which the folder belongs.
ModifiedTime	String	2020-09-24T18:37:51+0800	The editing time of the folder.
ParentId	Long	0	Parent folder ID. The root folder ID under the workflow is equal to 0, and the ID of the user-created folder is greater than 0.
ProjectId	Long	10001	The ID of the DataWorks workspace.
TenantId	Long	10002	The ID of the tenant.
RequestId	String	0000-ABCD-EF****	The unique ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetDataServiceFolder &FolderId=10001 &ProjectId=10002 &RegionId=cn-shanghai &TenantId=10003 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EF****</RequestId> <Folder> <ParentId>0</ParentId> <TenantId>10002
</TenantId> <CreatedTime>2020-09-24T18:37:51+0800</CreatedTime> <ModifiedTime>2020-09-24T18:
37:51+0800</ModifiedTime> <ProjectId>10001</ProjectId> <FolderId>11</FolderId> <FolderName>t
est1</FolderName> <GroupId>ds_1234</GroupId> </Folder>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EF****", "Folder": { "ParentId": 0, "TenantId": 10002, "Creat
edTime": "2020-09-24T18:37:51+0800", "ModifiedTime": "2020-09-24T18:37:51+0800", "ProjectId"
: 10001, "FolderId": 11, "FolderName": "test1", "GroupId": "ds_1234" } }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
403	ResourceNotAuthorized.Api	You are not authorized to access the resources.	You cannot access resources without authorization.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.

Go to the Error Center For more information, see error codes.

9.16. ListDataServiceFolders

Queries one or more folders in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServiceFolders	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page to return. Pages start from page 1. Default value: 1
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.
GroupId	String	No	ds_123abc	The ID of the workflow to which the folder belongs.
FolderNameKeyword	String	No	Folder keyword	Enter a keyword of the folder name to use for substring matching.

Response parameters

Parameter	Type	Example	Description
FolderPagingResult	Struct		The paging result of the folder list.
Folders	Array of Folder		The list of folders.
CreatedTime	String	2020-09-24T18:37:51+0800	The time when the folder was created.
FolderId	Long	11	ID of the folder.
FolderName	String	test1	The name of the folder.

Parameter	Type	Example	Description
GroupId	String	ds_1234	The ID of the workflow to which the folder belongs.
ModifiedTime	String	2020-09-24T18:37:51+0800	The editing time of the folder.
ParentId	Long	0	The ID of the parent folder. The root folder ID under the workflow is equal to 0, and the ID of the user-created folder is greater than 0.
ProjectId	Long	10001	The ID of the DataWorks workspace.
TenantId	Long	10002	The ID of the tenant.
PageNumber	Integer	1	The number of the page, which is consistent with the PageNumber value in the request.
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Integer	100	The total number of entries.
RequestId	String	0000-ABCD-EF****	The unique ID of the request.

Examples

Sample requests

```
    http(s)://[Endpoint]/? Action=ListDataServiceFolders &PageNumber=1 &PageSize=10 &Projec
tId=10001 &RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EF****</RequestId> <FolderPagingResult> <TotalCount>100</TotalCount> <PageSize>10</PageSize> <PageNumber>1</PageNumber> <Folders> <ParentId>0</ParentId> <TenantId>10002</TenantId> <CreatedTime>2020-09-24T18:37:51+0800</CreatedTime> <ModifiedTime>2020-09-24T18:37:51+0800</ModifiedTime> <ProjectId>10001</ProjectId> <FolderId>11</FolderId> <FolderName>test1</FolderName> <GroupId>ds_1234</GroupId> </Folders> </FolderPagingResult>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EF****", "FolderPagingResult": { "TotalCount": 100, "PageSize": 10, "PageNumber": 1, "Folders": { "ParentId": 0, "TenantId": 10002, "CreatedTime": "2020-09-24T18:37:51+0800", "ModifiedTime": "2020-09-24T18:37:51+0800", "ProjectId": 10001, "FolderId": 11, "FolderName": "test1", "GroupId": "ds_1234" } } }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.17. CreateDataServiceGroup

Creates a workflow in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDataServiceGroup	The operation that you want to perform.
ApiGatewayGroupId	String	Yes	1000abcd	The ID of the API Gateway group to which the workflow belongs. You can view the ID on the API Gateway console group details page.
Description	String	Yes	The test workflow	The description of the workflow.
GroupName	String	Yes	Workflow name	The name of the workflow.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
GroupId	String	ds_12345	Create the workflow ID.
RequestId	String	0000-ABCD-EF****	The unique ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateDataServiceGroup &ApiGatewayGroupId=1000abcd &Description=Test workflow &GroupName= workflow name&ProjectId=10001 &RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EF****</RequestId> <GroupId>ds_12345</GroupId>
```

JSON Format

```
{ "RequestId": "0000-ABCD-EF****", "GroupId": "ds_12345" }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.18. GetDataServiceGroup

Queries a workflow in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetDataServiceGroup	The operation that you want to perform.

Parameter	Type	Required	Example	Description
GroupId	String	Yes	ds_123abc	The ID of the workflow.
ProjectId	Long	Yes	10001	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10002	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
Group	Struct		Workflow details.
ApiGatewayGroupId	String	100abc	The ID of the API Gateway group to which the workflow belongs.
CreatedTime	String	2020-09-24T18:37:51+0800	The time when the workflow was created.
CreatorId	String	10001	The UID of the Creator. The UID of some historical workflow may be empty.
Description	String	Workflow description	The description of the workflow.
GroupId	String	ds_123abc	The ID of the workflow.
GroupName	String	Workflow name	The name of the workflow instance.
ModifiedTime	String	2020-09-24T18:37:51+0800	The editing time.
ProjectId	Long	10002	The ID of the DataWorks workspace.
TenantId	Long	10003	The ID of the tenant.
RequestId	String	0000-ABCD-EF****	The unique ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetDataServiceGroup &GroupId=ds_123abc &ProjectId=10001 &
RegionId=cn-shanghai &TenantId=10002 &<common request parameters>
```

Sample success responses

`XML` format

```
<Group> <GroupName> Workflow name </GroupName> <TenantId> 10003 </TenantId> <Descriptio
n> workflow described </Description> <CreatedTime> 2020-09-24 T18:37:51+0800 </CreatedTime>
<ModifiedTime> 2020-09-24 T18:37:51+0800 </ModifiedTime> <CreatorId> 10001 </CreatorId> <Pro
jectId> 10002 </ProjectId> <ApiGatewayGroupId> 100abc </ApiGatewayGroupId> <GroupId> ds_123a
bc </GroupId> </Group> <RequestId> 0000-ABCD-EF *** </RequestId>
```

`JSON` Format

```
{"Group": { "GroupName": "workflow name", "TenantId": 10003, "Description": "workflow D
escription", "CreatedTime": "2020-09-24T18:37:51+0800", "ModifiedTime": "2020-09-24T18:37:51
+0800", "CreatorId": 10001, "projectitid": "10002, " ApiGatewayGroupId ": " 100abc ", " Grou
pId ": " ds_123abc " }, " RequestId": "0000-ABCD-EF****"}
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId. Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.19. ListDataServiceGroups

Queries one or more workflows in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDataServiceGroups	The operation that you want to perform.
PageNumber	Integer	Yes	1	The number of the page. Pages start from 1. Default value: 1.
PageSize	Integer	Yes	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
ProjectId	Long	Yes	10000	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10001	The ID of the tenant.
GroupNameKeyword	String	No	The test workflow	Workflow name as a keyword.

Response parameters

Parameter	Type	Example	Description
GroupPagingResult	Struct		The pagination result of the workflow.
Groups	Array of Group		The list of workflow.
ApiGatewayGroupId	String	100abc	The ID of the API Gateway group to which the workflow belongs.

Parameter	Type	Example	Description
CreatedTime	String	2020-09-24T18:37:51+0800	The time when the workflow was created.
CreatorId	String	10001	The UID of the Creator. Some historical workflow may be empty.
Description	String	Workflow description	The description of the workflow.
GroupId	String	ds_123abc	The ID of the workflow.
GroupName	String	Workflow name	The name of the workflow instance.
ModifiedTime	String	2020-09-24T18:37:51+0800	The time when the workflow was edited.
ProjectId	Long	10002	The ID of the DataWorks workspace.
TenantId	Long	10003	The ID of the tenant.
PageNumber	Integer	1	The number of the page, which is consistent with the PageNumber value in the request.
PageSize	Integer	10	The number of entries to return on each page. Default value: 10. Maximum value: 100.
TotalCount	Integer	100	The total number of entries.
RequestId	String	0000-ABCD-EF****	The unique ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListDataServiceGroups &PageNumber=1 &PageSize=10 &ProjectId=10000 &RegionId=cn-shanghai &TenantId=10001 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId> 0000-abcd-ef**** </RequestId> <GroupPagingResult> <TotalCount> 100 </TotalCount> <PageSize> 10 </PageSize> <PageNumber> 1 </PageNumber> <Groups> <GroupName> workflow name </GroupName> <TenantId> 10003 </TenantId> <Description> workflow described </Description> <CreatedTime> 2020-09-24 T18:37:51+0800 </CreatedTime> <ModifiedTime> 2020-09-24 T18:37:51+0800 </ModifiedTime> <CreatorId> 10001 </CreatorId> <ApiGatewayGroupId> 100abc </ApiGatewayGroupId> <ProjectId> 10002 </ProjectId> <GroupId> ds_123abc </GroupId> </Groups> </GroupPagingResult>
```

`JSON` Format

```
{"RequestId": "0000-ABCD-EF****", "GroupPagingResult": { "TotalCount": 100, "PageSize": 10, "PageNumber": 1, "Groups": { "GroupName": "workflow name", "TenantId": 10003, "Description": "workflow Description", "CreatedTime": "2020-09-24T18:37:51+0800", "ModifiedTime": "2020-09-24T18:37:51+0800", " CreatorId": 10001, "ApiGatewayGroupId": "100abc", "ProjectId": 10002, "GroupId": "ds_123abc" } } }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.20. CreateDataServiceApiAuthority

Grants the access permissions on an API in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDataServiceApiAuthority	The operation that you want to perform.
ApiId	Long	Yes	10001	The ID of the API to query.
AuthorizedProjectId	Long	Yes	10002	The ID of the workspace to which the permissions are applied.
EndTime	Long	Yes	1600531564	The end of the time range where the authorization is performed. The value is a Unix timestamp in seconds. For example, 1600531564 indicates 00:06:04 (Beijing Time) on 2020-09-20.
ProjectId	Long	Yes	10003	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	1004	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EF****	The unique ID of the request.
Success	Boolean	true	Indicates whether the authorization is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=CreateDataServiceApiAuthority &ApiId=10001 &AuthorizedProjectId=10002 &EndTime=1600531564 &ProjectId=10003 &RegionId=cn-shanghai &TenantId=1004 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFo****</RequestId> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EFo****", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

9.21. DeleteDataServiceApiAuthority

Revokes the access permissions on an API in DataService Studio.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDataServiceApiAuthority	The operation that you want to perform.
ApiId	Long	Yes	10001	The ID of the API to query.
AuthorizedProjectId	Long	Yes	10002	The ID of the workspace to which the authorization was revoked.
ProjectId	Long	Yes	10003	The ID of the DataWorks workspace.
RegionId	String	Yes	cn-shanghai	The ID of the region where your project resides.
TenantId	Long	Yes	10004	The ID of the tenant.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EF****	The unique ID of the request.
Success	Boolean	true	Indicates whether the authorization is canceled.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteDataServiceApiAuthority &ApiId=10001 &AuthorizedProjectId=10002 &ProjectId=10003 &RegionId=cn-shanghai &TenantId=10004 &<common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFGH-IJKL</RequestId> <Success>true</Success>
```

`JSON` Format

```
{ "RequestId": "0000-ABCD-EF****", "Success": true }
```

Error codes

HttpCode	Error codes	Error message	Description
500	InternalError.System	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
500	InternalError.UserId.Missing	An internal system error occurred. Try again later.	An internal system error occurred. Please try again later.
429	Throttling.Api	The request for this resource has exceeded your available limit.	The request for the resource exceeds your available upper limit.
429	Throttling.System	The DataWorks system is busy. Try again later.	DataWorks the system is busy, please try again later.
429	Throttling.User	Your request is too frequent. Try again later.	Your request is too frequent, please try to slow down the request speed.
403	Forbidden.Access	Access is forbidden. Please first activate DataWorks Enterprise Edition or Flagship Edition.	You have restricted access. Please activate DataWorks Enterprise Edition or above.

Go to the Error Center For more information, see error codes.

10.Data Security Guard

10.1. GetOpSensitiveData

Queries the records that are generated on a specified date for access to the sensitive data in all the DataWorks workspaces of a tenant.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetOpSensitiveData	The operation that you want to perform.
Date	String	Yes	20210116	The date on which access records were generated. Specify the value in the yyyyMMdd format.
Name	String	Yes	[{"dbType":"hologres","instanceName":"ABC","databaseName":"abc"}, {"dbType":"ODPS.ODPS","projectName":"adbc"}]	The parameters that you can specify to query the access records. Valid values: • dbType: the data type • instanceName: the name of the instance • databaseName: the name of the database • projectName: the name of the workspace • clusterName: the name of the cluster The following example shows the parameters configured to query the access records of the sensitive data in the abc database of the ABC Hologres instance: {"dbType":"hologres","instanceName":"ABC","databaseName":"abc"} You must specify the parameters based on the compute engine that you use in your business.

Parameter	Type	Required	Example	Description
PageNo	Integer	Yes	100	The page number of the page to return. Minimum value:1. Maximum value: 1000.
PageSize	Integer	Yes	1	The number of entries to return on each page. Minimum value: 1. Maximum value: 1000.
RegionId	String	Yes	cn-shenzhen	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
OpType	String	No	SELECT	The operation that is performed on the data. Valid values: • SQL_SELECT: indicates that the data is accessed. For example, the SELECT statement is executed to query the data. • TUNNEL_DOWNLOAD: indicates that the data is downloaded. For example, a Tunnel command is run to download the data.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
OpSensitiveData	String	"opSensDatas": [{ "sensLevel": "L4", "opTime": "2021-02-07 00:14:51", "opAccount": "ALIYUN$dsg_test", "sensType": "Mobile phone number", "sql": "select * from dsg_demo.tbl_phonebook where phone_no = '1331111****';" }], "totalCount": 6	The information of the access records returned for the sensitive data. The information includes totalCount and opRiskDatas. opRiskDatas includes the following parameters: • sensType: the type of the sensitive data • sensLevel: the sensitivity level of the sensitive data • opType: the type of the operation • sql: the SQL statement that is executed • opAccount: the account that is used to perform the operation • opTime: the time when the operation was performed
RequestId	String	0000-ABCD-EFG****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetOpSensitiveData
&Date=20210116
&Name=[  {"dbType":"hologres","instanceName":"ABC","databaseName":"abc"},  {"dbType":"ODPS.O
DPS","projectName":"adbc"}  ]
&PageNo=100
&PageSize=1
&RegionId=cn-shenzhen
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<OpSensitiveData>"opSensDatas": [       {         "sensLevel": "L4",         "opTime": "2021
-02-07 00:14:51",         "opAccount": "ALIYUN$dsg_test",         "sensType": "Mobile phone
number",         "sql": "select * from dsg_demo.tbl_phonebook where phone_no = &amp;#39;1331
111****&amp;#39;;"       }     ],     "totalCount": 6</OpSensitiveData>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "OpSensitiveData": "\"opSensDatas\": [        {          \"sensLevel\": \"L4\",          \"
opTime\": \"2021-02-07 00:14:51\",          \"opAccount\": \"ALIYUN$dsg_test\",          \"sen
sType\": \"Mobile phone number\",          \"sql\": \"select * from dsg_demo.tbl_phonebook wh
ere phone_no = &amp;#39;1331111****&amp;#39;;\"        }      ],      \"totalCount\": 6"
}
```


Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden.NoTenant	The tenant information cannot be obtained using user ID.	The error message returned because the tenant information cannot be obtained.
400	Invalid.Param	The request parameter is invalid.	The error message returned because the specified parameter is invalid.
500	InternalError.DQC.BizError	An internal error occurred.	The error message returned because an internal server error has occurred.

For a list of error codes, visit the API Error Center.

10.2. DesensitizeData

Masks data.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DesensitizeData	The operation that you want to perform.
Data	String	Yes	15365291784	The data that you want to mask.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
SceneCode	String	Yes	_default_scene_code	The code of the data masking scene. You can view the code on the Data Masking page in Data Security Guard of the DataWorks console.

Response parameters

Parameter	Type	Example	Description
DesensitizeData	String	{ "desensData": "**198807120510**" }	The data returned after masking.
RequestId	String	BCA321BA-46C5-40E9-8A08-6******	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DesensitizeData
&Data=15365291784
&RegionId=cn-shanghai
&SceneCode=_default_scene_code
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>BCA321BA-46C5-40E9-8A08-6******</RequestId>
<DesensitizeData>{     "desensData": "**198807120510**"   }</DesensitizeData>
```

`JSON` format

```
{
    "RequestId": "BCA321BA-46C5-40E9-8A08-6******",
    "DesensitizeData": "{     \"desensData\": \"**198807120510**\"   }"
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.NoTenant	The tenant information cannot be obtained using user ID.	The error message returned because the tenant information cannot be obtained.
500	InternalError.DQC.BizError	An internal error occurred.	The error message returned because an internal server error has occurred.

For a list of error codes, visit the API Error Center.

10.3. GetOpRiskData

Queries the access records of the risky sensitive data in all DataWorks workspaces of a tenant on a specified date.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetOpRiskData	The operation that you want to perform.
Date	String	Yes	20210221	The date on which the access records were queried. Specify the value in the yyyyMMdd format.
PageNo	Integer	Yes	1	The number of the page to return. Minimum value: 1.
PageSize	Integer	Yes	100	The number of entries to return on each page. Maximum value: 1000.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shenzhen	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
Name	String	No	[{"dbType":"hologres","instanceName":"ABC","databaseName":"abc"}, {"dbType":"ODPS.ODPS","projectName":"adbc"}]	The parameters that you can specify to query the access records. Valid values: • dbType: the data type • instanceName: the name of the instance • databaseName: the name of the database • projectName: the name of the workspace • clusterName: the name of the cluster The following example shows the parameters configured to query the access records of the sensitive data in the abc database of the ABC Hologres instance: {"dbType":"hologres","instanceName":"ABC","databaseName":"abc"} You must specify the parameters based on the compute engine that you use in your business.
RiskType	String	No	Manual identification	The method that you use to identify risks. • You can manually identify risks. • You can also use a risk rule to identify risks. You can go to the DataWorks console to obtain the name of the risk rule on the Custom Identification Rules page of Data Security Guard.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The ID of the request.
RiskData	String	{ "opRiskDatas": [{ "riskType": "Level dimension, EMR compute engine dimension, workspace dimension, operational data of the EMR compute engine and workspace dimensions, export method dimension, and EMR compute engine", "opTime": "2021-01-04 23:39:13", "opType": "SQL_SELECT", "opAccount": "user", "sensType": "Email address/Name/Phone number", "sql": "SELECT * FROM default.jiade_1219_test_create LIMIT 20" }], "totalCount": 499 }	The information of the risky sensitive data returned. The information includes totalCount and opRiskDatas. opRiskDatas includes the following parameters: • sensType: the type of the sensitive data • sensLevel: the sensitivity level of the sensitive data • opType: the type of the operation • sql: the SQL statement that is executed • opAccount: the account that is used to perform the operation • opTime: the time when the operation was performed

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetOpRiskData
&Date=20210221
&PageNo=1
&PageSize=100
&RegionId=cn-shenzhen
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
{     "opRiskDatas": [       {         "riskType": "Level dimension, EMR compute engine dime
nsion, workspace dimension, operational data of the EMR compute engine and workspace dimensi
ons, export method dimension, and EMR compute engine",         "opTime": "2021-01-04 23:39:1
3",         "opType": "SQL_SELECT",         "opAccount": "user",         "sensType": "Email
address/Name/Phone number",         "sql": "SELECT * FROM default.jiade_1219_test_create LIM
IT 20"       }     ],     "totalCount": 499   }</RiskData>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "RiskData": "{     \"opRiskDatas\": [       {         \"riskType\": \"Level dimension, E
MR compute engine dimension, workspace dimension, operational data of the EMR compute engine
and workspace dimensions, export method dimension, and EMR compute engine\",         \"opTim
e\": \"2021-01-04 23:39:13\",         \"opType\": \"SQL_SELECT\",         \"opAccount\": \"u
ser\",         \"sensType\": \"Email address/Name/Phone number\",         \"sql\": \"SELECT
* FROM default.jiade_1219_test_create LIMIT 20\"       }     ],     \"totalCount\": 499   }"
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.NoTenant	The tenant information cannot be obtained using user ID.	The error message returned because the tenant information cannot be obtained.
400	Invalid.Param	The request parameter is invalid.	The error message returned because one or more request parameters are invalid.
500	InternalError.DQC.BizError	An internal error occurred.	The error message returned because an internal server error has occurred.

For a list of error codes, visit the API Error Center.

10.4. GetSensitiveData

Queries the latest sensitive data in all the DataWorks workspaces of a tenant.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetSensitiveData	The operation that you want to perform.
Name	String	Yes	[{"dbType":"hologres","instanceName":"ABC","databaseName":"abc"}, {"dbType":"ODPS.ODPS","projectName":"adbc"}]	The parameters that you can specify to query the access records. Valid values: • dbType: the data type • instanceName: the name of the instance • databaseName: the name of the database • projectName: the name of the workspace • clusterName: the name of the cluster The following example shows the parameters configured to query the access records of the sensitive data in the abc database of the ABC Hologres instance: {"dbType":"hologres","instanceName":"ABC","databaseName":"abc"} You must specify the parameters based on the compute engine that you use in your business.
PageNo	Integer	Yes	1	The number of the page to return. Minimum value:1.
PageSize	Integer	Yes	1000	The number of entries to return on each page. Maximum value: 1000.
RegionId	String	Yes	cn-shenzhen	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The ID of the request.
SensitiveData	Map	{ "sensDatas": [{ "sensLevel": "L1", "guid": "dsg_demo.animal.dog", "sensType": "Name" }], "totalCount": 2171 }	The information of the sensitive data returned. The information includes totalCount and sensDatas. sensDatas includes the following parameters: • guid: the ID of the metadata of the tenant. For example, the ID of the metadata in the MaxCompute compute engine is in the Project name.Table name.Column name format. • sensType: the type of the sensitive data. • sensLevel: the sensitivity level of the sensitive data.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetSensitiveData
&Name=[ {"dbType":"hologres","instanceName":"ABC","databaseName":"abc"}, {"dbType":"ODPS.ODPS","projectName":"adbc"} ]
&PageNo=1
&PageSize=1000
&RegionId=cn-shenzhen
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0000-ABCD-EFG****</RequestId>
<SensitiveData>{      "sensDatas": [       {          "sensLevel": "L1",          "guid": "dsg_demo.animal.dog",          "sensType": "Name"       }       ],      "totalCount": 2171 }</SensitiveData>
```

`JSON` format

```
{
    "RequestId": "0000-ABCD-EFG****",
    "SensitiveData": "{      \"sensDatas\": [       {          \"sensLevel\": \"L1\",          \"guid\": \"dsg_demo.animal.dog\",          \"sensType\": \"Name\"       }       ],      \"totalCount\": 2171 }"
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.NoTenant	The tenant information cannot be obtained using user ID.	The error message returned because the tenant information cannot be obtained.
500	InternalError.DQC.BizError	An internal error occurred.	The error message returned because an internal server error has occurred.
400	Invalid.Param	The request parameter is invalid.	The error message returned because one or more request parameters are invalid.

For a list of error codes, visit the API Error Center.

10.5. ScanSensitiveData

Checks whether input data contains sensitive data.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ScanSensitiveData	The operation that you want to perform.
Data	String	Yes	15132674821	The data that you want to check.
RegionId	String	Yes	cn-shenzhen	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG****	The ID of the request.
Sensitives	Map	{ "sensDatas": [{ "hitCount": 1, "ruleName": "Phone number" }] }	The result of the check. sensDatas indicates the rules that are used to check the sensitive data. sensDatas includes the following parameters: • hitCount: the number of times that the sensitive data hits the rule • ruleName: the name of the rule

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ScanSensitiveData
&Data=15132674821
&RegionId=cn-shenzhen
&<Common request parameters>
```

Sample success responses

`XML` format

```
<Sensitives>{     "sensDatas": [       {          "hitCount": 1,         "ruleName": "Phone n
umber"       }      ]    }</Sensitives>
<RequestId>0000-ABCD-EFG****</RequestId>
```

`JSON` format

```
{
    "Sensitives": "{     \"sensDatas\": [       {          \"hitCount\": 1,         \"ruleNam
e\": \"Phone number\"       }      ]    }",
    "RequestId": "0000-ABCD-EFG****"
}
```

Error codes

Http status code	Error code	Error message	Description
403	Forbidden.Meta.NoTenant	The user is not the owner of any tenants.	The error message returned because the user is not the owner of a tenant.

Http status code	Error code	Error message	Description
500	InternalError.DQC.BizError	An internal error occurred.	The error message returned because an internal server error has occurred.

For a list of error codes, visit the API Error Center.

11.Migration Assistant

11.1. CreateImportMigration

Creates an import task. The import task contains the import packages of the data sources, nodes, and tables.

The import package must be uploaded. Example of the upload method:

```
Config config = new Config();
config.setAccessKeyId(accessId);
config.setAccessKeySecret(accessKey);
config.setEndpoint(popEndpoint);
config.setRegionId(regionId);
Client client = new Client(config);
CreateImportMigrationAdvanceRequest request = new CreateImportMigrationAdvanceRequest();
request.setName("test_migration_api_" + System.currentTimeMillis());
request.setProjectId(123456L);
request.setPackageType("DATAWORKS_MODEL");
request.setPackageFileObject(new FileInputStream("/home/admin/Downloads/test.zip"));
RuntimeOptions runtime = new RuntimeOptions();
CreateImportMigrationResponse response = client.createImportMigrationAdvance(request, runtime);
...
```

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateImportMigration	The operation that you want to perform.
CalculateEngineMap	String	Yes	{ "ODPS": { "zxy_8221431_engine": "wzp_kaifazhebaan_engine" }, "EMR": { "aaaa": "bbb" } }	The mapping between the source compute engine instance and the destination compute engine instance. The following types of compute engine instances are supported: MaxCompute, E-MapReduce (EMR), Hadoop CDH, and Hologres.

Parameter	Type	Required	Example	Description
CommitRule	String	Yes	{ "resourceAutoCommit": false, "resourceAutoDeploy": false, "functionAutoCommit": false, "functionAutoDeploy": false, "tableAutoCommitToDev": false, "tableAutoCommitToProd": false, "ignoreLock": false, "fileAutoCommit" : false, "fileAutoDeploy": false }	The rule configured for automatically committing and deploying the import task. The rule contains the following parameters: • resourceAutoCommit: specifies whether resources are automatically committed. The value true indicates that the resources are automatically committed, and the value false indicates that the resources are not automatically committed. • resourceAutoDeploy: specifies whether resources are automatically deployed. The value true indicates that the resources are automatically deployed, and the value false indicates that the resources are not automatically deployed. • functionAutoCommit: specifies whether the function is automatically committed. The value true indicates that the function is automatically committed, and the value false indicates that the function is not automatically committed. • functionAutoDeploy: specifies whether the function is automatically deployed. The value true indicates that the function is automatically deployed, and the value false indicates that the function is not automatically deployed. • tableAutoCommitToDev: specifies whether the table is automatically committed to the development environment. The value true indicates that the table is automatically committed to the development environment, and the value false indicates that the table is not automatically committed to the development environment. • tableAutoCommitToProd: specifies whether the table is automatically committed to the production environment. The value true indicates that the table is automatically committed to the production environment, and the value false indicates that the table is not automatically committed to the production environment.

Parameter	Type	Required	Example	Description
				• ignoreLock: specifies whether the lock is automatically ignored when an import task is locked. The value true indicates that the lock is automatically ignored, and the value false indicates that the lock is not automatically ignored. If you set this parameter to true for an import task, you can forcibly update the task even if the task is locked. • fileAutoCommit: specifies whether the file is automatically committed. The value true indicates that the file is automatically committed, and the value false indicates that the file is not automatically committed. • fileAutoDeploy: specifies whether the file is automatically deployed. The value true indicates that the file is automatically deployed, and the value false indicates that the file is not automatically deployed.
Name	String	Yes	test_import_001	The name of the import task. The name must be unique within the workspace.

Parameter	Type	Required	Example	Description
PackageFile	String	Yes	/home/admin/xxx/import.zip	The path of the import package. **The import package must be uploaded. Example of the upload method:** `Config config = new Config(); config.setAccessKeyId(accessId); config.setAccessKeySecret(accessKey); config.setEndpoint(popEndpoint); config.setRegionId(regionId); Client client = new Client(config); CreateImportMigrationAdvanceRequest request = new CreateImportMigrationAdvanceRequest(); request.setName("test_migration_api_" + System.currentTimeMillis()); request.setProjectId(123456L); request.setPackageType("DATAWORKS_MODEL"); request.setPackageFileObject(new FileInputStream("/home/admin/Downloads/test.zip")); RuntimeOptions runtime = new RuntimeOptions(); CreateImportMigrationResponse response = client.createImportMigrationAdvance(request, runtime); ...`
PackageType	String	Yes	DATAWORKS_MODEL	The type of the import package. Valid values: • DATAWORKS_MODEL (standard format) • DATAWORKS_V2 (Apsara Stack DataWorks V3.6.1 to V3.11) • DATAWORKS_V3 (Apsara Stack DataWorks V3.12 and later)
ProjectId	Long	Yes	123456	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai-fiance-1	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
ResourceGroupMap	String	No	{"SCHEDULER_RESOURCE_GROUP":{"xxx":"yyy"},"DI_RESOURCE_GROUP":{"ccc":"ddd"}}	The mapping between the resource group for scheduling and the resource group for Data Integration. The keys and values in the mapping are the identifiers of the resource groups. Specify the mapping in the following format: `{ "SCHEDULER_RESOURCE_GROUP": { "xxx": "yyy" }, "DI_RESOURCE_GROUP": { "ccc": "dfdd" } }`
WorkspaceMap	String	No	{"test_workspace_src": "test_workspace_target"}	The mapping between the prefixes for the names of the source and destination workspaces. When the system performs the import operation, the prefix for the name of the source workspace in the import package is replaced based on the mapping.
Description	String	No	test description	The description of the import package.

Response parameters

Parameter	Type	Example	Description
Data	Long	123456	The ID of the import task. The ID is used as an input parameter if you want the system to run the import task or you want to obtain the running progress of the import task.

Parameter	Type	Example	Description
ErrorCode	String	110001123456	The error code returned.
ErrorMessage	String	test error message	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	ADFASDFASDFA-ADFASDF-ASDFADSDF-AFFADS	The ID of the request. You can use the ID to locate logs and troubleshoot issues.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateImportMigration
&CalculateEngineMap={     "ODPS": {       "zxy_8221431_engine": "wzp_kaifazheban_engine"
},     "EMR": {         "aaaa": "bbb"     }   }
&CommitRule={     "resourceAutoCommit": false,     "resourceAutoDeploy": false,     "functio
nAutoCommit": false,     "functionAutoDeploy": false,     "tableAutoCommitToDev": false,
"tableAutoCommitToProd": false,     "ignoreLock": false,     "fileAutoCommit": false,     "f
ileAutoDeploy": false   }
&Name=test_import_001
&PackageFile=/home/admin/xxx/import.zip
&PackageType=DATAWORKS_MODEL
&ProjectId=123456
&RegionId=cn-shanghai-fiance-1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>ADFASDFASDFA-ADFASDF-ASDFADSDF-AFFADS</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>123456</Data>
<ErrorCode>110001123456</ErrorCode>
<ErrorMessage>test error message</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "ADFASDFASDFA-ADFASDF-ASDFADSDF-AFFADS",
    "HttpStatusCode": 200,
    "Data": 123456,
    "ErrorCode": 110001123456,
    "ErrorMessage": "test error message",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

11.2. GetMigrationProcess

Queries the progress of a migration task.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMigrationProcess	The operation that you want to perform.
MigrationId	Long	Yes	123456	The ID of the migration package. You can call the CreateImportMigration operation to query the ID.
ProjectId	Long	Yes	123456	The ID of the workspace. You can go to the Workspace Management page of the DataWorks console to view the ID.
RegionId	String	Yes	cn-shanghai-finance-1	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Array of ProgressTaskItem		The progress information of the migration task, including the names of all steps in and status of the migration task.
TaskName	String	IMPORE_PREPARE	The name of the step in the migration task.
TaskStatus	String	SUCCESS	The running status of the step in the migration task. Valid values: • INT • RUNNING • FAILURE • SUCCESS
ErrorCode	String	110001123456	The error code returned.
ErrorMessage	String	test error msg	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	SADFSDFSD-SDFSDF-XDXCVX-ESWW	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMigrationProcess
&MigrationId=123456
&ProjectId=123456
&RegionId=cn-shanghai-finance-1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>SADFSDFSD-SDFSDF-XDXCVX-ESWW</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>
    <TaskName>IMPORE_PREPARE</TaskName>
    <TaskStatus>SUCCESS</TaskStatus>
</Data>
<ErrorCode>110001123456</ErrorCode>
<ErrorMessage>test error msg</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{
    "RequestId": "SADFSDFSD-SDFSDF-XDXCVX-ESWW",
    "HttpStatusCode": 200,
    "Data": {
        "TaskName": "IMPORE_PREPARE",
        "TaskStatus": "SUCCESS"
    },
    "ErrorCode": 110001123456,
    "ErrorMessage": "test error msg",
    "Success": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

11.3. StartMigration

Starts a migration task.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StartMigration	The operation that you want to perform.
MigrationId	Long	Yes	123456	The ID of the migration package. You can call the CreateImportMigration operation to query the ID.

Parameter	Type	Required	Example	Description
ProjectId	Long	Yes	123456	The ID of the workspace. You can go to the Workspace Management page of the DataWorks console to view the ID.
RegionId	String	Yes	cn-shanghai-finance-1	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	Indicates whether the migration task is started. Valid values: • true: The migration task is started. • false: The migration task fails to be started.
ErrorCode	String	110001123445	The error code returned.
ErrorMessage	String	test error msg	The error message returned.
HttpStatusCode	Integer	200	The HTTP status code returned.
RequestId	String	FSDFSDF-WERWER-XVCX-DSFSDF	The ID of the request.
Success	Boolean	true	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=StartMigration
&MigrationId=123456
&ProjectId=123456
&RegionId=cn-shanghai-finance-1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>FSDFSDF-WERWER-XVCX-DSFSDF</RequestId>
<HttpStatusCode>200</HttpStatusCode>
<Data>true</Data>
<ErrorCode>110001123445</ErrorCode>
<ErrorMessage>test error msg</ErrorMessage>
<Success>true</Success>
```

`JSON` format

```
{"RequestId":"FSDFSDF-WERWER-XVCX-DSFSDatuF","HttpStsCode":200,"Data":true,"ErrorCode":11000
1123445,"ErrorMessage":"test error msg","Success":true}
```

Error codes

For a list of error codes, visit the API Error Center.

11.4. CreateExportMigration

Creates an export task. This operation is used only to create an export task. You cannot call this operation to run an export task.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateExportMigration	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectId	Long	Yes	12345	The ID of the workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.

Parameter	Type	Required	Example	Description
Name	String	Yes	test_export_01	The name of the export task. The name of each export task must be unique. You must ensure that no duplicate export task exists in the current workspace.
ExportMode	String	Yes	FULL	The export mode of the export task. Valid values: • FULL: The export task is used to export all data objects. • INCREMENTAL: The export task is used to export data objects that were modified since the specified point in time. If you set this parameter to INCREMENTAL, you must configure the IncrementalSince parameter.
IncrementalSince	Long	No	1589904000000	The start time of the incremental export task. The IncrementalSince parameter takes effect only when the ExportMode parameter is set to INCREMENTAL.
ExportObjectStatus	String	No	SAVED	The status of the data objects that you want to export in the export task. The system exports data objects in the state that is specified by this parameter. Valid values: • SAVED: Data objects that are in the SAVED state are exported. • SUBMITTED: Data objects that are in the SUBMITTED state are exported. • DEPLOYED: Data objects that are in the DEPLOYED state are exported.
Description	String	No	test	The description of the export task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	34267E2E-0335-1A60-A1F0-ADA530890CBA	The ID of the request. You can use the ID to locate logs and troubleshoot errors.

Parameter	Type	Example	Description
Data	Long	1234	The ID of the export task.
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The call succeeded. • false: The call failed. You can locate errors based on the request ID.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateExportMigration
&ProjectId=12345
&Name=test_export_01
&ExportMode=FULL
&IncrementalSince=1589904000000
&ExportObjectStatus=SAVED
&Description=test
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateExportMigrationResponse>
    <RequestId>34267E2E-0335-1A60-A1F0-ADA530890CBA</RequestId>
    <Data>1234</Data>
    <Success>true</Success>
</CreateExportMigrationResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "34267E2E-0335-1A60-A1F0-ADA530890CBA",
  "Data" : 1234,
  "Success" : true
}
```

Error codes

For a list of error codes, visit the API Error Center.

11.5. GetMigrationSummary

Queries the information about a migration task.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetMigrationSummary	The operation that you want to perform.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectId	Long	Yes	12345	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
MigrationId	Long	Yes	1234	The ID of the migration task. You can call the CreateImportMigration operation to obtain the ID of the import task and call the CreateExportMigration operation to obtain the ID of the export task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	19999A96-71BA-1845-B455-ED620EF4E37F	The ID of the request. You can locate logs and troubleshoot issues based on the ID.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails. You can locate the error based on the request ID.
Data	Object		The details of the migration task.
MigrationId	Long	1234	The ID of the migration task.
Name	String	test_export_01	The name of the migration task.
GmtCreate	Long	1589904000000	The time when the migration task was created.
GmtModified	Long	1589904000000	The time when the migration task was modified.
CreateUser	String	982293332403****	The ID of the user who creates the migration task.
OpUser	String	982293332403****	The ID of the user who manages the migration task.

Parameter	Type	Example	Description
Status	String	EXPORT_SUCCESS	The status of the migration task. Valid values: • INIT: The migration task is initiating. • EDITING: The migration task is being edited. • IMPORTING: The migration task is importing data objects. • IMPORT_ERROR: The migration task fails to import data objects. • IMPORT_SUCCESS: Data objects are imported. • EXPORTING: The migration task is exporting data objects. • EXPORT_ERROR: The migration task fails to export data objects. • EXPORT_SUCCESS: The migration task successfully exports data objects. • REVOKED: The migration task is canceled. • PARTIAL_SUCCESS: The migration task successfully imports or exports only some data objects.
ProjectId	Long	12345	The ID of the DataWorks workspace.
DownloadUrl	String	https://shanghai-xxx-oss.oss-cn-shanghai.aliyuncs.com/pre/store/f10_bf47_b4fa7df0860f.zip?Expires=1639540903&OSSAccessKeyId=XXXXXXeF4Lv5j&Signature=qxxxxx	The URL that is used to download the package of the export task.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetMigrationSummary
&ProjectId=12345
&MigrationId=1234
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetMigrationSummaryResponse>
    <RequestId>19999A96-71BA-1845-B455-ED620EF4E37F</RequestId>
    <Success>true</Success>
    <Data>
        <MigrationId>1234</MigrationId>
        <Name>test_export_01</Name>
        <GmtCreate>1589904000000</GmtCreate>
        <GmtModified>1589904000000</GmtModified>
        <CreateUser>9822933324031844</CreateUser>
        <OpUser>9822933324031844</OpUser>
        <Status>EXPORT_SUCCESS</Status>
        <ProjectId>12345</ProjectId>
        <DownloadUrl>https://shanghai-xxx-oss.oss-cn-shanghai.aliyuncs.com/pre/store/f10_bf4
7_b4fa7df0860f.zip?Expires=1639540903&amp;OSSAccessKeyId=XXXXXXeF4Lv5j&amp;Signature=qxxxxx<
/DownloadUrl>
    </Data>
</GetMigrationSummaryResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "19999A96-71BA-1845-B455-ED620EF4E37F",
  "Success" : true,
  "Data" : {
    "MigrationId" : 1234,
    "Name" : "test_export_01",
    "GmtCreate" : 1589904000000,
    "GmtModified" : 1589904000000,
    "CreateUser" : 982293332403****,
    "OpUser" : 982293332403****,
    "Status" : "EXPORT_SUCCESS",
    "ProjectId" : 12345,
    "DownloadUrl" : "https://shanghai-xxx-oss.oss-cn-shanghai.aliyuncs.com/pre/store/f10_bf4
7_b4fa7df0860f.zip?Expires=1639540903&amp;OSSAccessKeyId=XXXXXXeF4Lv5j&amp;Signature=qxxxxx"
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

11.6. ListMigrations

Queries migration tasks.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListMigrations	The operation that you want to perform. Set the value to **ListMigrations**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system determines the value of this parameter based on the endpoint that is used to call the operation.
ProjectId	Long	Yes	12345	The ID of the DataWorks workspace. You can log on to the DataWorks console and go to the Workspace Management page to obtain the workspace ID.
MigrationType	String	Yes	IMPORT	The type of the migration task. Valid values: IMPORT and EXPORT.
Owner	String	No	193379****	The ID of the owner.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
RequestId	String	F9198AA3-9010-53D5-9714-DC4461427D3E	The ID of the request.

Parameter	Type	Example	Description
Success	Boolean	true	Indicates whether the request is successful. Valid values: • true: The request is successful. • false: The request fails.
Data	Object		The data returned.
Migrations	Array of Migration		The list of migration tasks.
Id	Long	436064	The ID of the primary key.
Name	String	test_task_1638498642279	The name of the migration task.
PackageType	String	DATAWORKS_MODEL	The type of the import or export package. Valid values: • DWMA (standard format) • DATAWORKS_MODEL (standard format) • DATAWORKS_V2 (Apsara Stack DataWorks V3.6.1 to V3.11) • DATAWORKS_V3 (Apsara Stack DataWorks V3.12 and later) The DWMA and DATAWORKS_MODEL types are interchangeable.
MigrationType	String	EXPORT	The type of the migration task. Valid values: • IMPORT • EXPORT
CreateTime	Long	123124123123123	The time when the migration task was created.
UpdateTime	Long	123123123123123	The time when the migration task was last updated.
CreateUser	String	1231231213123	The ID of the user who created the migration task.
CreateUserName	String	3h1_test	The name of the user who created the migration task.

Parameter	Type	Example	Description
UpdateUser	String	123123123132	The ID of the user who last updated the migration task.
UpdateUserName	String	3h1_test	The name of the user who last updated the migration task.
ProjectId	Long	72132	The ID of the DataWorks workspace.
TenantId	Long	16307	The ID of the tenant.
Status	String	SUCCESS	The status of the migration task. Valid values: • INIT: The migration task is in the initial state. • EDITING: The migration task is being edited. • RUNNING: The migration task is running. • FAILURE: The migration task fails to run. • SUCCESS: The migration task is successfully run.
Message	String	An internal system error occurred. datasource kafka region is not cn-chengdu, can't open network for it	The error message returned.
DownloadUrl	String	http://geoip-sdk-user.oss-cn-zhangjiakou.aliyuncs.com/product/v1/ipv4/trace/v1.20220424123842.dex?Expires=1650780849&OSSAccessKeyId=XXXXXXeF4Lv5j&Signature=qxxxxx	The URL that is used to download the package of the export task.
Description	String	Creation of an automated test task	The description of the export task.
PageNumber	Integer	1	The page number of the returned page.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries returned per page. Default value: 10. Maximum value: 50.
TotalCount	Integer	20	The total number of entries returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListMigrations
&ProjectId=12345
&MigrationType=IMPORT
&Owner=193379****
&PageNumber=1
&PageSize=10
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListMigrationsResponse>
    <RequestId>F9198AA3-9010-53D5-9714-DC4461427D3E</RequestId>
    <Success>true</Success>
    <Data>
        <Migrations>
            <Id>436064</Id>
            <Name>test_task_1638498642279</Name>
            <PackageType>DATAWORKS_MODEL</PackageType>
            <MigrationType>EXPORT</MigrationType>
            <CreateTime>123124123123123</CreateTime>
            <UpdateTime>123123123123123</UpdateTime>
            <CreateUser>1231231213123</CreateUser>
            <CreateUserName>3h1_test</CreateUserName>
            <UpdateUser>123123123132</UpdateUser>
            <UpdateUserName>3h1_test</UpdateUserName>
            <ProjectId>72132</ProjectId>
            <TenantId>16307</TenantId>
            <Status>SUCCESS</Status>
            <Message>An internal system error occurred. datasource kafka region is not cn-ch
engdu, can't open network for it</Message>
            <DownloadUrl>http://geoip-sdk-user.oss-cn-zhangjiakou.aliyuncs.com/product/v1/ip
v4/trace/v1.20220424123842.dex?Expires=1650780849&amp;OSSAccessKeyId=XXXXXXeF4Lv5j&amp;Signa
ture=qxxxxx</DownloadUrl>
            <Description>Creation of an automated test task</Description>
        </Migrations>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>20</TotalCount>
    </Data>
</ListMigrationsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "F9198AA3-9010-53D5-9714-DC4461427D3E",
  "Success" : true,
  "Data" : {
    "Migrations" : {
      "Id" : 436064,
      "Name" : "test_task_1638498642279",
      "PackageType" : "DATAWORKS_MODEL",
      "MigrationType" : "EXPORT",
      "CreateTime" : 123124123123123,
      "UpdateTime" : 123123123123123,
      "CreateUser" : 1231231213123,
      "CreateUserName" : "3h1_test",
      "UpdateUser" : 123123123132,
      "UpdateUserName" : "3h1_test",
      "ProjectId" : 72132,
      "TenantId" : 16307,
      "Status" : "SUCCESS",
      "Message" : "An internal system error occurred. datasource kafka region is not cn-chen
gdu, can't open network for it",
      "DownloadUrl" : "http://geoip-sdk-user.oss-cn-zhangjiakou.aliyuncs.com/product/v1/ipv4
/trace/v1.20220424123842.dex?Expires=1650780849&amp;OSSAccessKeyId=XXXXXXeF4Lv5j&amp;Signatu
re=qxxxxx",
      "Description" : "Creation of an automated test task"
    },
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 20
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

12.Security Center

12.1. CreatePermissionApplyOrder

Creates a permission request order.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreatePermissionApplyOrder	The operation that you want to perform. Set the value to **CreatePermissionApplyOrder**.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and the ID of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ApplyUserIds	String	Yes	26784260040899 3176,2678426004 08993177	The ID of the Alibaba Cloud account for which you want to request permissions. If you want to request permissions for multiple Alibaba Cloud accounts, separate the IDs of the accounts with commas (,).

Parameter	Type	Required	Example	Description
Deadline	Long	No	1617115071885	The expiration time of the permissions that you request. This value is a UNIX timestamp. If you do not specify a value for this parameter, January 1, 2065 is used as the expiration time. If LabelSecurity is disabled for the MaxCompute project in which you want to request permissions on the fields of a table, or the security level of the fields is 0 or is lower than or equal to the security level of the Alibaba Cloud account for which you want to request permissions, you can request only permanent permissions. You can go to the Workspace Management page of the DataWorks console, click MaxCompute Management in the left-side navigation pane, and then check whether column-level access control is enabled. You can go to your DataWorks workspace, view the security level of the fields in Data Map, and then view the security level of the Alibaba Cloud account on the User Management page.
ApplyReason	String	Yes	I need to use this table	The reason for your request. The administrator determines whether to approve the request based on the reason.
MaxComputeProjectName	String	Yes	aMaxcomputeProjectName	The name of the MaxCompute project in which you request permissions on the fields of a table.
WorkspaceId	Integer	Yes	12345	The ID of the DataWorks workspace that is associated with the MaxCompute project in which you want to request permissions on the fields of a table. You can go to the Workspace Management page in the DataWorks console to query the workspace ID.

Parameter	Type	Required	Example	Description
OrderType	Integer	No	1	The type of the permission request order. The parameter value is 1 and cannot be changed. This value indicates ACL-based authorization.
EngineType	String	No	odps	The type of the compute engine instance in which you want to request permissions on the fields of a table. The parameter value is odps and cannot be changed. This value indicates that you can request permissions only on fields of tables in MaxCompute compute engine instances.
ApplyObject.N.Actions	String	Yes	Select,Describe	The permission that you want to request. If you want to request multiple permissions at the same time, separate them with commas (,). You can request only the SELECT, DESCRIBE, and DOWNLOAD permissions.
ApplyObject.N.ColumnMetaList.N.Name	String	Yes	aColumnName	The field on which you want to request permissions. If you want to request permissions on an entire table, enter all fields in the table. You can request permissions on specific fields of a table in a MaxCompute project only after LabelSecurity is enabled for this project. If LabelSecurity is disabled, you can request permissions only on an entire table.
ApplyObject.N.Name	String	Yes	aTableName	The name of the object on which you want to request permissions. You can request permissions only on MaxCompute tables. Set this parameter to the name of the table on which you want to request permissions.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0bc1ec92159376****	The ID of the request.

Parameter	Type	Example	Description
FlowId	Array of String	ee276e6e-5d34-46d8-b848-bca7879ed233	The ID of the request order. If you request permissions on multiple objects but each object has a different request approver, one request order is generated for each object and is sent to the related approver. In this case, an array is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreatePermissionApplyOrder
&ApplyObject.1.Actions=Select,Describe
&ApplyObject.1.ColumnMetaList.1.1ame=aColumnName
&ApplyObject.1.1ame=aTableName
&ApplyReason=I need to use this table
&ApplyUserIds=267842600408993176,267842600408993177
&MaxComputeProjectName=aMaxcomputeProjectName
&RegionId=cn-shanghai
&WorkspaceId=12345
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreatePermissionApplyOrderResponse>
    <FlowId>ee276e6e-5d34-46d8-b848-bca7879ed233</FlowId>
    <RequestId>0bc1ec92159376****</RequestId>
</CreatePermissionApplyOrderResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "FlowId" : "ee276e6e-5d34-46d8-b848-bca7879ed233",
  "RequestId" : "0bc1ec92159376****"
}
```

Error codes

For a list of error codes, visit the API Error Center.

12.2. GetPermissionApplyOrderDetail

Queries the details about a permission request order.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetPermissionApplyOrderDetail	The operation that you want to perform.
FlowId	String	Yes	48f36729-05f9-4a40-9286-933fd940f30a	The ID of the permission request order. You can call the ListPermissionApplyOrders operation to obtain the order ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
ApplyOrderDetail	Struct		Details about the permission request order.
ApplyBaseId	String	267842600408993176	The unique ID of the Alibaba Cloud account that is used to submit the permission request order.
ApplyTimestamp	Long	1615284086000	The time when the permission request order was submitted. The parameter value is a UNIX timestamp.
ApproveAccountList	Array of ApproveAccountList		The list of Alibaba Cloud accounts that are used to approve the permission request order.

Parameter	Type	Example	Description
BaseId	String	1822931104031845	The unique ID of the Alibaba Cloud account that is used to approve the permission request order.
ApproveContent	Struct		The content of the permission request.
ApplyReason	String	I need to use this table	The reason for your request. The administrator decides whether to approve the request based on the request reason.
Deadline	Long	1617115071885	The expiration time of the permissions that you requested. The parameter value is a UNIX timestamp. If LabelSecurity is disabled in the MaxCompute project, or the security level of fields in the MaxCompute table on which you request permissions is 0 or is less than or equal to the security level of the Alibaba Cloud account for which you request permissions, you can request only permanent permissions.
OrderType	Integer	1	The type of the permission request order. The parameter value is 1 and cannot be changed. 1 indicates that ACL-based authorization is requested.
ProjectMeta	Struct		The information about the project and workspace that are associated with the object on which you requested permissions.
MaxComputeProjectName	String	aMaxComputeProject	The MaxCompute project to which the object on which you request permissions belongs.
ObjectMetaList	Array of ObjectMetaList		Details about the object on which you request permissions.
ColumnMetaList	Array of ColumnMetaList		The information about the column fields in the object on which you request permissions.
ColumnComment	String	aColumnComment	The description of the column on which you request permissions.

Parameter	Type	Example	Description
ColumnName	String	aColumnName	The name of the column on which you request permissions.
ObjectName	String	aTableName	The name of the table on which you request permissions.
WorkspaceId	Integer	12345	The ID of the DataWorks workspace that is associated with the object on which you request permissions.
FlowId	String	ad8da78d-8135-455e-9486-27cf213fc140	The ID of the permission request order.
FlowStatus	Integer	2	The status of the permission request order. Valid values: • 1: pending approval • 2: approved and authorized • 3: approved but authorization failed • 4: rejected
GranteeObjectList	Array of GranteeObjectList		Information about the account that is used to request permissions.
GranteeId	String	267842600408993176	The unique ID of the account that is used to request permissions.
GranteeName	String	RAM$dataworks_3h1_1:StsRamUser(StsRamUser)	The name of the account that is used to request permissions. The name is in the same format as that of the account used to access the MaxCompute project. • An Alibaba Cloud account is in the format of ALIYUN$+Account name. • A RAM user is in the format of RAM$+Account name.
GranteeType	Integer	1	The type of the subject that requests permissions. The parameter value is 1 and cannot be changed. It indicates user.

Parameter	Type	Example	Description
GranteeTypeSub	Integer	103	The subtype of the subject that requests permissions. Valid values: • 101: production account • 103: individual account • 105: account that requests permissions for others
RequestId	String	0bc1ec92159376****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetPermissionApplyOrderDetail
&FlowId=48f36729-05f9-4a40-9286-933fd940f30a
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376****</RequestId>
<ApplyOrderDetail>
    <FlowId>ad8da78d-8135-455e-9486-27cf213fc140</FlowId>
    <ApplyTimestamp>1615284086000</ApplyTimestamp>
    <ApplyBaseId>267842600408993176</ApplyBaseId>
    <FlowStatus>2</FlowStatus>
    <ApproveAccountList>
        <BaseId>1822931104031845</BaseId>
    </ApproveAccountList>
    <GranteeObjectList>
        <GranteeType>1</GranteeType>
        <GranteeId>267842600408993176</GranteeId>
        <GranteeName>RAM$dataworks_3h1_1:StsRamUser(StsRamUser)</GranteeName>
        <GranteeTypeSub>103</GranteeTypeSub>
    </GranteeObjectList>
    <ApproveContent>
        <OrderType>1</OrderType>
        <Deadline>1617115071885</Deadline>
        <ApplyReason>I need to use this table</ApplyReason>
        <ProjectMeta>
            <MaxComputeProjectName>aMaxComputeProject</MaxComputeProjectName>
            <WorkspaceId>12345</WorkspaceId>
            <ObjectMetaList>
                <ObjectName>aTableName</ObjectName>
                <ColumnMetaList>
                    <ColumnName>aColumnName</ColumnName>
                    <ColumnComment> Field description </ColumnComment>
                </ColumnMetaList>
            </ObjectMetaList>
        </ProjectMeta>
    </ApproveContent>
</ApplyOrderDetail>
```

`JSON` format

```
{
    "RequestId": "0bc1ec92159376****",
    "ApplyOrderDetail": {
        "FlowId": "ad8da78d-8135-455e-9486-27cf213fc140",
        "ApplyTimestamp": 1615284086000,
        "ApplyBaseId": 267842600408993180,
        "FlowStatus": 2,
        "ApproveAccountList": {
            "BaseId": 1822931104031845
        },
        "GranteeObjectList": {
            "GranteeType": 1,
            "GranteeId": 267842600408993180,
            "GranteeName": "RAM$dataworks_3h1_1:StsRamUser(StsRamUser)",
            "GranteeTypeSub": 103
        },
        "ApproveContent": {
            "OrderType": 1,
            "Deadline": 1617115071885,
            "ApplyReason": "I need to use this table",
            "ProjectMeta": {
                "MaxComputeProjectName": "aMaxComputeProject",
                "WorkspaceId": 12345,
                "ObjectMetaList": {
                    "ObjectName": "aTableName",
                    "ColumnMetaList": {
                        "ColumnName": "aColumnName",
                        "ColumnComment": "aColumnComment"
                    }
                }
            }
        }
    }
}
```

Error codes

For a list of error codes, visit the API Error Center.

12.3. ListPermissionApplyOrders

Queries permission request orders.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListPermissionApplyOrders	The operation that you want to perform.
EngineType	String	Yes	odps	The type of the compute engine in which you submitted a permission request order. The parameter value is odps and cannot be changed. odps indicates that you can request permissions only on tables in the MaxCompute compute engine.
OrderType	Integer	Yes	1	The type of the permission request order. The parameter value is 1 and cannot be changed. 1 indicates that ACL-based authorization is requested.
QueryType	Integer	Yes	1	The query type of the permission request order. Valid values: • 0: The permission request orders you submitted. • 1: The permission request orders you approved.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
FlowStatus	Integer	No	1	The status of the permission request order. Valid values: • 1: pending approval • 2: approved and authorized • 3: approved but authorization failed • 4: rejected

Parameter	Type	Required	Example	Description
WorkspaceId	Integer	No	12345	The ID of the DataWorks workspace that is associated with the permission request order. If you do not specify the parameter, the permission request orders of all workspaces are returned. You can go to the Workspace Management page in the DataWorks console to query the workspace ID.
MaxComputeProjectName	String	No	aMaxComputeProject	The name of the MaxCompute project with which the permission request order is associated. If you do not specify the parameter, the permission request orders of all MaxCompute projects are returned.
TableName	String	No	aTableName	The name of the table with which the permission request order is associated. If you do not specify the parameter, the permission request orders of all tables are returned.
StartTime	Long	No	1616200471885	The start time. You can query all the permissions request orders that have been submitted after the time. The parameter value is a UNIX timestamp. If you do not specify the parameter, all the permission request orders are queried.
EndTime	Long	No	1617200471885	The end time. You can query all the permissions request orders that have been submitted before the time. The parameter value is a UNIX timestamp. If you do not specify the parameter, all the permission request orders that are submitted before the current time are queried.
PageNum	Integer	No	1	The number of the page to return. Pages start from page 1. Default value: 1.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	100	The number of entries to return on each page. Default value: 10. Maximum value: 100.

Response parameters

Parameter	Type	Example	Description
ApplyOrders	Struct		The query results returned by page.
ApplyOrder	Array of Orders		The list of the permission request orders.
ApplyBaseId	String	267842600408993176	The unique ID of the Alibaba Cloud account that is used to submit the permission request order.
ApplyTimestamp	Long	1615284086000	The time when the permission request order is submitted. The parameter value is a UNIX timestamp.
ApproveContent	Struct		The content of the permission request order.
ApplyReason	String	I need to use this table	The reason for your request. The administrator decides whether to approve the request based on the request reason.
OrderType	Integer	1	The type of the permission request order. The parameter value is 1 and cannot be changed. 1 indicates that ACL-based authorization is requested.
ProjectMeta	Struct		The content of the object on which you request permissions.
ObjectMetaList	Array of ObjectMetaList		The information about the object on which you request permissions.

Parameter	Type	Example	Description
Actions	List	Select,Describe	The type of the permissions that you request. If you request different types of permissions at the same time, separate them with commas (,). You can request only the SELECT, DESCRIBE, and DOWNLOAD permissions.
ObjectName	String	aTableName	The name of the table on which you request permissions.
WorkspaceName	String	aWorkspaceName	The name of the DataWorks workspace that is associated with the MaxCompute project in which you requested permissions on a table.
FlowId	String	ad8da78d-8135-455e-9486-27cf213fc140	The ID of the permission request order.
FlowStatus	Integer	2	The status of the permission request order. Valid values: • 1: pending approval • 2: approved and authorized • 3: approved but authorization failed • 4: rejected
PageNumber	Integer	1	The number of the returned page.
PageSize	Integer	10	The number of entries returned per page.
TotalCount	Integer	150	The total number of permission request orders returned.
RequestId	String	0bc1ec92159376****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListPermissionApplyOrders
&EngineType=odps
&OrderType=1
&QueryType=1
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376****</RequestId>
<ApplyOrders>
    <TotalCount>150</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
    <ApplyOrder>
        <ApplyTimestamp>1615284086000</ApplyTimestamp>
        <FlowId>ad8da78d-8135-455e-9486-27cf213fc140</FlowId>
        <ApplyBaseId>267842600408993176</ApplyBaseId>
        <FlowStatus>2</FlowStatus>
        <ApproveContent>
            <OrderType>1</OrderType>
            <ApplyReason>I need to use this table</ApplyReason>
            <ProjectMeta>
                <WorkspaceName>aWorkspaceName</WorkspaceName>
                <ObjectMetaList>
                    <ObjectName>aTableName</ObjectName>
                    <Actions>Select,Describe</Actions>
                </ObjectMetaList>
            </ProjectMeta>
        </ApproveContent>
    </ApplyOrder>
</ApplyOrders>
```

`JSON` format

```
{
    "RequestId": "0bc1ec92159376****",
    "ApplyOrders": {
        "TotalCount": 150,
        "PageSize": 10,
        "PageNumber": 1,
        "ApplyOrder": {
            "ApplyTimestamp": 1615284086000,
            "FlowId": "ad8da78d-8135-455e-9486-27cf213fc140",
            "ApplyBaseId": 267842600408993180,
            "FlowStatus": 2,
            "ApproveContent": {
                "OrderType": 1,
                "ApplyReason": "I need to use this table",
                "ProjectMeta": {
                    "WorkspaceName": "aWorkspaceName",
                    "ObjectMetaList": {
                        "ObjectName": "aTableName",
                        "Actions": "Select,Describe"
                    }
                }
            }
        }
    }
}
```

Error codes

For a list of error codes, visit the API Error Center.

12.4. ApprovePermissionApplyOrder

Approves a permission request order.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ApprovePermissionApplyOrder	The operation that you want to perform.

Parameter	Type	Required	Example	Description
ApproveAction	Integer	Yes	1	The approval action. Valid values: • 1: Approve the permission request order. • 2: Reject the permission request order.
ApproveComment	String	Yes	agree	The comment on the approval.
FlowId	String	Yes	48f36729-05f9-4a40-9286-933fd940f30a	The ID of the permission request order. You can call the ListPermissionApplyOrders operation to obtain the order ID.
RegionId	String	Yes	cn-shanghai	The region ID. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.

Response parameters

Parameter	Type	Example	Description
ApproveSuccess	Boolean	true	Indicates that the approval is successful.
RequestId	String	0bc1ec92159376****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ApprovePermissionApplyOrder
&ApproveAction=1
&ApproveComment=agree
&FlowId=48f36729-05f9-4a40-9286-933fd940f30a
&RegionId=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>0bc1ec92159376****</RequestId>
<ApproveSuccess>true</ApproveSuccess>
```

`JSON` format

```
{
    "RequestId": "0bc1ec92159376****",
    "ApproveSuccess": true
}
```

Error codes

For a list of error codes, visit the API Error Center.

12.5. RevokeColumnPermission

Revokes permissions on table fields from a user.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RevokeColumnPermission	The operation that you want to perform.
Columns	String	Yes	id,name	The fields for which you want to revoke permissions from a user. Separate multiple fields with commas (,). You can revoke the permissions on the fields only in MaxCompute tables.
MaxComputeProjectName	String	Yes	aMaxcomputeProjectName	The name of the MaxCompute project to which the destination fields belong. You can log on to the DataWorks console and go to the Workspace Management page to obtain the name of the MaxCompute project that is associated with the workspace.

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-shanghai	The ID of the region where the MaxCompute project that contains the destination fields resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
TableName	String	Yes	aTableName	The name of the MaxCompute table to which the destination fields belong. You can call the SearchMetaTables operation to query the name.
WorkspaceId	Long	Yes	12345	The ID of the DataWorks workspace with which the MaxCompute project is associated. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.
RevokeUserName	String	No	RAM$dataworks_3h1_1:stsramuser	The Alibaba Cloud account of the user from whom you want to revoke permissions. Specify this parameter in the format that is the same as the format of the account used to access the MaxCompute project. • If you want to revoke permissions from an Alibaba Cloud account, specify this parameter in the ALIYUN$+Alibaba Cloud account format. • If you want to revoke permissions from a Resource Access Management (RAM) user, specify this parameter in the RAM$+RAM user format. You must specify either this parameter or RevokeUserId. If you specify both this parameter and RevokeUserId, the value of RevokeUserId prevails.

Parameter	Type	Required	Example	Description
RevokeUserId	String	No	26784260040899 3176	The ID of the Alibaba Cloud account of the user from whom you want to revoke permissions. You can log on to the DataWorks console and go to the Security Settings page to obtain the ID. You must specify either this parameter or RevokeUserName. If you specify both this parameter and RevokeUserName, the value of this parameter prevails.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0bc1ec92159376****	The ID of the request.
RevokeSuccess	Boolean	true	Indicates whether the permissions on table fields are revoked.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RevokeColumnPermission
&Columns=id,name
&MaxComputeProjectName=aMaxcomputeProjectName
&RegionId=cn-shanghai
&TableName=aTableName
&WorkspaceId=12345
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RevokeSuccess>true</RevokeSuccess>
<RequestId>0bc1ec92159376****</RequestId>
```

`JSON` format

```
{
    "RevokeSuccess": true,
    "RequestId": "0bc1ec92159376****"
}
```

Error codes

For a list of error codes, visit the API Error Center.

12.6. RevokeTablePermission

Revokes permissions on a table from a user.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RevokeTablePermission	The operation that you want to perform.
Actions	String	Yes	Select,Describe	The permissions that you want to revoke. Separate multiple permissions with commas (,). You can revoke only the SELECT, DESCRIBE, and DOWNLOAD permissions on MaxCompute tables.
MaxComputeProjectName	String	Yes	aMaxcomputeProjectName	The name of the MaxCompute project to which the table belongs. You can log on to the DataWorks console and go to the Workspace Management page to obtain the MaxCompute project name.
RegionId	String	Yes	cn-shanghai	The ID of the region where the MaxCompute project that contains the table resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint used to call the operation.
TableName	String	Yes	aTableName	The name of the MaxCompute table. You can call the SearchMetaTables operation to query the table name.

Parameter	Type	Required	Example	Description
WorkspaceId	Long	Yes	12345	The ID of the DataWorks workspace with which the MaxCompute project is associated. You can log on to the DataWorks console and go to the Workspace Management page to obtain the ID.
RevokeUserName	String	No	RAM$dataworks_3h1_1:stsramuser	The Alibaba Cloud account from which you want to revoke permissions. Specify this parameter in the format that is the same as the format of the account used to access the MaxCompute project. • If you want to revoke permissions from an Alibaba Cloud account, specify this parameter in the ALIYUN$+Alibaba Cloud account format. • If you want to revoke permissions from a Resource Access Management (RAM) user, specify this parameter in the RAM$+RAM user format. You must specify either this parameter or RevokeUserId. If you specify both this parameter and RevokeUserId, the value of RevokeUserId prevails.
RevokeUserId	String	No	267842600408993176	The ID of the Alibaba Cloud account from which you want to revoke permissions. You can log on to the DataWorks console and go to the Security Settings page to obtain the ID. You must specify either this parameter or RevokeUserName. If you specify both this parameter and RevokeUserName, the value of this parameter prevails.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0bc1ec92159376****	The ID of the request.
RevokeSuccess	Boolean	true	Indicates whether the permissions on the table are revoked.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RevokeTablePermission
&Actions=Select,Describe
&MaxComputeProjectName=aMaxcomputeProjectName
&RegionId=cn-shanghai
&TableName=aTableName
&WorkspaceId=12345
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RevokeSuccess>true</RevokeSuccess>
<RequestId>0bc1ec92159376****</RequestId>
```

`JSON` format

```
{
    "RevokeSuccess": true,
    "RequestId": "0bc1ec92159376****"
}
```

Error codes

For a list of error codes, visit the API Error Center.

13.Open platform

13.1. ListExtensions

Queries the extensions of the DataWorks open platform.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListExtensions	The operation that you want to perform. Set the value to **ListExtensions**.
RegionId	String	No	cn-shanghai	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	10	The number of entries to return on each page.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG	The ID of the request.
PagingInfo	Object		The extensions returned on pages.
PageNumber	Integer	1	The page number of the returned page.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of entries returned per page.
TotalCount	Integer	12	The total number of entries returned.
Extensions	Array of Extensions		The extensions.
Status	Integer	0	The state of the extension. Valid values: 0: testing 1: publishing 3: disabled 4: approving 5: approved 6: approval failed
ExtensionDesc	String	This is a description.	The description of the extension.
ExtensionName	String	ExtensionName	The name of the extension.
Owner	String	2003****	The ID of the RAM user.
ExtensionCode	String	ExtensionCode	The unique code of the extension.
BindEventList	Array of BindEventList		The extension point events.
EventName	String	File Commitment Event	The name of the event.
EventCode	String	commit-file	The code of the event.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListExtensions
&PageNumber=1
&PageSize=10
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListExtensionsResponse>
    <RequestId>0000-ABCD-EFG</RequestId>
    <PagingInfo>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <TotalCount>12</TotalCount>
        <Extensions>
            <Status>0</Status>
            <ExtensionDesc>This is a description.</ExtensionDesc>
            <ExtensionName>ExtensionName</ExtensionName>
            <Owner>2003****</Owner>
            <ExtensionCode>ExtensionCode</ExtensionCode>
            <BindEventList>
                <EventName>File Commitment Event</EventName>
                <EventCode>commit-file</EventCode>
            </BindEventList>
        </Extensions>
    </PagingInfo>
</ListExtensionsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG",
  "PagingInfo" : {
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 12,
    "Extensions" : [ {
      "Status" : 0,
      "ExtensionDesc" : "This is a description.",
      "ExtensionName" : "ExtensionName",
      "Owner" : "2003****",
      "ExtensionCode" : "ExtensionCode",
      "BindEventList" : [ {
        "EventName" : "File Commitment Event",
        "EventCode" : "commit-file"
      } ]
    } ]
  }
}
```

Error codes

For more information about error codes, visit API Error Center.

13.2. GetExtension

Queries the details of an extension.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetExtension	The operation that you want to perform. Set the value to **GetExtension**.
RegionId	String	No	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ExtensionCode	String	No	ce4*********086da5	The unique code of the extension.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0000-ABCD-EFG	The ID of the request. You can use the ID to query logs and troubleshoot issues.
Extension	Object		The details of the extension.
ExtensionCode	String	ce4*********086da5	The unique code of the extension.
ExtensionName	String	ExtensionName	The name of the extension.
ExtensionDesc	String	This is a description.	The description of the extension.

Parameter	Type	Example	Description
HelpDocUrl	String	https://www.aliyun.com/	The URL of the help document about the extension.
Status	Integer	0	The state of the extension. 0: testing. 1: publishing. 3: disabled. 4: approving. 5: approved. 6: approval failed.
ProjectTesting	Long	13552	The workspace for testing. If the extension is in the testing state, the extension can be used only in the workspace for testing.
DetailUrl	String	https://www.aliyun.com/	The URL of the help document about the extension. You can visit the URL for the details of the extension.
ParameterSetting	String	extension.project.disabled=projectId1,projectId2,projectId3	The parameter settings of the extension. For more information, visit https://www.alibabacloud.com/help/en/dataworks/latest/set-extension-parameters.
OptionSetting	String	OptionSetting	The option settings of the extension.
BindEventList	Array of BindEventList		The extension point events.
EventCode	String	commit-file	The code of the extension point event.
EventName	String	File Commitment Event	The name of the extension point event.
EventCategoryList	Array of EventCategoryList		The types of the events.
CategoryCode	String	file-change	The code of the event type.
CategoryName	String	File Change Event	The name of the event type.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetExtension
&ExtensionCode=ce4*********086da5
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetExtensionResponse>
    <RequestId>0000-ABCD-EFG</RequestId>
    <Extension>
        <ExtensionCode>ce4*********086da5</ExtensionCode>
        <ExtensionName>ExtensionName</ExtensionName>
        <ExtensionDesc>This a description.</ExtensionDesc>
        <HelpDocUrl>https://www.aliyun.com/</HelpDocUrl>
        <Status>0</Status>
        <ProjectTesting>13552</ProjectTesting>
        <DetailUrl>https://www.aliyun.com/</DetailUrl>
        <ParameterSetting>extension.project.disabled=projectId1,projectId2,projectId3</Param
eterSetting>
        <OptionSetting>OptionSetting</OptionSetting>
        <BindEventList>
            <EventCode>commit-file</EventCode>
            <EventName>File Commitment Event</EventName>
        </BindEventList>
        <EventCategoryList>
            <CategoryCode>file-change</CategoryCode>
            <CategoryName>File Change Event</CategoryName>
        </EventCategoryList>
    </Extension>
</GetExtensionResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0000-ABCD-EFG",
  "Extension" : {
    "ExtensionCode" : "ce4*********086da5",
    "ExtensionName" : "ExtensionName",
    "ExtensionDesc" : "This is a description.",
    "HelpDocUrl" : "https://www.aliyun.com/",
    "Status" : 0,
    "ProjectTesting" : 13552,
    "DetailUrl" : "https://www.aliyun.com/",
    "ParameterSetting" : "extension.project.disabled=projectId1,projectId2,projectId3",
    "OptionSetting" : "OptionSetting",
    "BindEventList" : {
      "EventCode" : "commit-file",
      "EventName" : "File Commitment Event"
    },
    "EventCategoryList" : {
      "CategoryCode" : "file-change",
      "CategoryName" : "File Change Event"
    }
  }
}
```

Error codes

For more information about error codes, visit API Error Center.

13.3. GetOptionValueForProject

Queries the option settings of an extension in a workspace.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetOptionValueForProject	The operation that you want to perform. Set the value to **GetOptionValueForProject**.

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-zhangjiakou	The ID of the region in which the DataWorks workspace resides. For example, the ID of the China (Shanghai) region is cn-shanghai, and that of the China (Zhangjiakou) region is cn-zhangjiakou. The system automatically determines the value of this parameter based on the endpoint that is used to call the operation.
ExtensionCode	String	No	ce4*********086da5	The unique code of the extension.
ProjectId	String	No	234	The ID of the workspace.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E6F0DBDD-5AD****	The ID of the request.
OptionValue	String	null	The option settings. In the example, cuNumber is a custom key.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetOptionValueForProject
&ExtensionCode=ce4*********086da5
&ProjectId=234
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetOptionValueForProjectResponse>
    <RequestId>E6F0DBDD-5AD****</RequestId>
    <OptionValue>{"cuNumber":"0"}</OptionValue>
</GetOptionValueForProjectResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E6F0DBDD-5AD****",
  "OptionValue" : "{\"cuNumber\":\"0\"}"
}
```

Error codes

For more information about error codes, visit API Error Center.