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Preface

Welcome to Informatica Cloud, Informatica's hosted applications. Informatica Cloud uses functionality from PowerCenter and Informatica Data Quality to provide easy-to-use, web-based applications.

The Informatica Cloud Developer Guide explains how developers can use the Informatica Cloud Connector Toolkit and the Informatica Cloud REST API.

Some of the features and functionality mentioned in this guide might not be available to your organization due to licensing.

Informatica Resources

Informatica Documentation

To get the latest documentation for your product, browse the Informatica Knowledge Base at https://kb.informatica.com/_layouts/ProductDocumentation/Page/ProductDocumentSearch.aspx.

If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com.

Informatica Cloud Web Site

You can access the Informatica Cloud web site at http://www.informatica.com/cloud. This site contains information about Informatica Cloud editions and applications.

Informatica Cloud Communities

Use the Informatica Cloud Community to discuss and resolve technical issues in Informatica Cloud. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Cloud Community at:


To find resources on using Cloud Application Integration (the Informatica Cloud Real Time service), access the community at:

https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-application-integration/content

Developers can learn more and share tips at the Cloud Developer community:
Informatica Cloud Marketplace

Visit the Informatica Marketplace to try and buy Informatica Cloud Connectors, templates, and mapplets:

Informatica Cloud Connector Documentation

You can access documentation for Informatica Cloud Connectors at the Informatica Cloud Community:
https://network.informatica.com/cloud/index.htm

You can also download individual connector guides: https://network.informatica.com/docs/DOC-15333.

Informatica Knowledge Base

Use the Informatica Knowledge Base to search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

To access the Knowledge Base, visit https://kb.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Cloud Trust Site

Subscribe to the Informatica trust site for upgrade, maintenance, and incident notifications.

Status.Informatica.com displays the production status of all the Informatica cloud products. All maintenance updates are posted to this status page, and during an outage, it will have the most current information. To ensure you are notified of updates and outages, you can subscribe to a single component, a single incident, or the site as a whole. Subscribing to the site as a whole is the best way to be certain you never miss an update. To subscribe, go to http://status.informatica.com and click SUBSCRIBE TO UPDATES. You can then choose to receive notifications sent as emails, SMS text messages, webhooks, RSS feeds, or any combination of the four.

Informatica Global Customer Support

You can contact a Customer Support Center by telephone or online.

For online support, click Submit Support Request in Informatica Cloud. You can also use Online Support to log a case. Online Support requires a login. You can request a login at https://network.informatica.com/welcome.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.
CHAPTER 1

Informatica Cloud REST API

This chapter includes the following topics:

- Informatica Cloud REST API Overview, 8
- XML Schema Definition, 11
- Header and Body Configuration, 11
- Update Modes, 15
- Date/Time Values, 16
- Object IDs, 17
- Session IDs, 17
- REST API Responses, 18
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Informatica Cloud REST API Overview

Use the Informatica Cloud REST API to access information from your Informatica Cloud organization. You can also perform tasks such as create, update, and delete connections, schedules, mapplets, and task flows.

Use version 2 of the REST API for all development. Version 1 is no longer supported.

To use the Informatica Cloud REST API, you need a valid Informatica Cloud login and an understanding of REST API guidelines.

To configure a request using the REST API, use the appropriate resource and method, along with the applicable attributes. Informatica Cloud returns the requested information, performs the requested task, or returns an error object and related messages.

The Informatica Cloud REST API includes the following resources:

activityLog

Returns job details from the Informatica Cloud activity log.

activityMonitor

Returns job details from the Informatica Cloud activity monitor.
agent
Returns the details of a Secure Agent or the details of all Secure Agents in the organization. Also deletes a Secure Agent.

auditlog
Returns audit log entries.

bundleObject
Returns the details of a bundle. Returns the details of all bundles installed on or published by the organization. Pushes a published private bundle to sub-organizations.

bundleObjectLicense
Returns the license information for a bundle. Returns the license information for all bundles installed on or available to the organization. Installs a bundle and uninstalls a bundle.

connection
Returns the details of a connection or the details of all connections in the organization. Returns available source or target objects for a specified connection. Returns all connections of a specified type associated with a Secure Agent. Creates, updates, tests, and deletes a connection.

connector
Returns list of connectors available to an organization. Returns attribute values for a connector type.

customFunc
Returns the details of a mapplet or of all mapplets in the organization. Uploads a PowerCenter mapplet. Also deletes a mapplet.

dataPreview
Returns up to ten rows of source or target data for the specified object.

expressionValidation
Returns a message that states the expression is valid or returns an error.

field
Returns the field details for a source or target object.

fileRecord
Uploads an integration template XML file or image file. Also deletes an integration template XML file or image file.

fwConfig
Returns the details of fixed-width formats. Creates or updates a fixed-width format. Also deletes a fixed-width format.

job
Starts or stops a task or taskflow and optionally returns job status.

licenseInfo
Returns the license information for the organization that you are logged in to. Updates license information for a sub-organization.

login
Logs in to an Informatica Cloud organization with Informatica Cloud or Salesforce credentials. Returns a two hour REST API session ID that you can use for subsequent REST API requests.
loginSaml
Logs in to an Informatica Cloud organization using SAML single sign-on credentials. Returns a two hour
REST API session ID that you use for subsequent REST API requests. Also logs out of a SAML single
sign-on session.

logout
Logs out of the organization and ends the REST API session specified in the request.

logoutall
Logs out of the organization and ends all REST API sessions for the organization.

mapping
Returns the details of a mapping or the details of all mappings in the organization.

masterTemplate
Returns the details of an integration template or the details of all integration templates in the
organization. Creates, updates, or deletes an integration template.

mttask
Returns the details of a Mapping Configuration task. Creates, updates, or deletes a Mapping
Configuration task.

org
Returns the details of an organization or related sub-organization. Updates an organization or related
sub-organization. Also deletes a related sub-organization.

permission
Returns user group permissions details for specific entities. Updates permission levels for specific user
groups and overwrites permissions set in the user interface.

register
Creates a Informatica Cloud organization or sub-organization using organization details. Also creates an
organization using Salesforce credentials. (Available for Informatica Cloud partners only.)

runtimeEnvironment
Returns the details of a runtime environment.

schedule
Returns the details of a schedule or the details of all schedules in the organization. Creates or updates a
schedule. Also deletes a schedule.

serverTime
Returns the local time of the Informatica Cloud server.

task
Returns a list of tasks of the specified type.

user
Returns the details of a user account or the details of all user accounts in the organization. Creates,
updates, or deletes a user account.

usergroup
Returns the details for a user group or all user groups in the organization.
workflow

Returns the details of a taskflow or the details of all taskflows in the organization. Creates, updates, or deletes a taskflow.

XML Schema Definition

You can access the XML schema definition (XSD) for the Informatica Cloud REST API at the following URL:

https://app.informaticaondemand.com/saas/xsd/ics_api_v2.xsd

To use the XSD URL, log into Informatica Cloud, then enter the XSD URL.

Header and Body Configuration

Configure the request header and request body as required.

Request Header

When you construct a REST API request header, use the following format:

<METHOD> <serverUrl>/<URI> HTTP/<HTTP version>
Content-Type: application/json | xml
Accept: application/json | xml
icSessionId: <icSessionId>

The following list describes the attributes of the above format:

METHOD

Required.
Method you want to use, such as GET, POST, or DELETE.

serverUrl

Required for most resources.
Base URL for all resources except login, loginSf, logoutall, register, and registerSf.
Use a placeholder for serverUrl, and replace the placeholder with the Informatica Cloud URL returned by the login resource.
For the login, loginSf, logoutall, register, and registerSf resources, use the URL listed in the resource.

URI

Required for most resources.
Resource URI.
For the login, loginSf, logoutall, register, and registerSf resources, use the URL listed in the resource.

HTTP version

Required.
HTTP version that you are using.
Content-Type

Required for POST requests

Format of the request. Use one of the following options:

- application/json. Reads request as JSON.
- application/xml. Reads request as XML.

Default is json.

Accept

Optional.

Request format that you want. Use one of the following options:

- application/json. Sends response as JSON.
- application/xml. Sends response as XML.

Default is json.

icSessionId

Informatica Cloud session ID.

Required for all resources except login, loginSf, logoutall, register, and registerSf.

Use a placeholder for icSessionId, and replace the placeholder with the session ID returned by the login resource.

Request Body

Use the request body to pass additional attributes for the resource. When you pass attributes in a request body, you pass the attributes as part of an object.

For example, to log in with the login resource, you pass the required username and password attributes in a login object.

Some requests include sub-objects for attributes. Declare the sub-objects before listing the related attributes.

JSON Format

When you use the JSON format, define a request object with the @type attribute, as follows:

```
{
  "@type": "<request object>",
  "<attribute1>": "<value1>",
  "<attribute2>": "<value2>",
}
```

When an attribute includes an object, state the attribute and use the object name as follows:

```
{
  "@type": "<request object>",
  "<attribute1>": "<value1>",
  "<attribute2>": {
    "@type": "<attribute object>",
    "<attributeA>": "<valueA>",
    "<attributeB>": "<valueB>",
  }
  "@type": "<attribute object>",
  "<attributeC>": "<valueC>",
  "<attributeD>": "<valueD>",
  "<attributeE>": "<valueE>",
  "<attribute3>": "<value3>",
}
```
XML Format

When you use the XML format, define a request object as an enclosing set of tags, as follows:

```xml
<request object>
  <attribute1>value1</attribute1>
  <attribute2>value2</attribute2>
</request object>
```

When an attribute includes an object, enclose the attribute object within the attribute tags as follows:

```xml
<request object>
  <attribute1>value1</attribute1>
  <attribute2>
    <attribute object>
      <attributeA>valueA</attributeA>
      <attributeB>valueB</attributeB>
    </attribute object>
  </attribute2>
</request object>
```

Return Lists

When the REST API returns a series of objects in XML, it encloses the list in the root tag, as follows:

```xml
<root>
  <return object 1>
    <attribute1>value1</attribute1>
    <attribute2>value2</attribute2>
  </return object 1>
  <return object 2>
    <attribute1>value1</attribute1>
    <attribute2>value2</attribute2>
  </return object 2>
</root>
```

In JSON, no additional attributes are used. The REST API encloses the list in square brackets ([]), as follows:

```json
[{
  "@type": "<return object1>",
  "attribute1": "<value1>",
  "attribute2": "<value2>",
}, {
  "@type": "<return object2>",
  "attribute1": "<value1>",
  "attribute2": "<value2>",
}]
```

JSON Example

To log in using JSON, you might use the following request header and body:

```bash
POST https://app.informaticaondemand.com/ma/api/v2/user/login HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "login",
  "username": "useremail@company.com",
}
```
"password": "mypassword"
}

The login might return the following information:

{
  "@type": "user",
  "id": "00000b030000000000001",
  "orgId": "00000B",
  "name": "useremail@company.com",
  "description": null,
  "createTime": "2012-06-14T15:00:00.0002",
  "updateTime": "2012-06-14T15:00:00.0002",
  "createdBy": "System",
  "updatedBy": "useremail@company.com",
  "sfUsername": null,
  "firstName": "Firstname",
  "lastName": "Lastname",
  "title": "Senior Software Engineer",
  "password": "**********",
  "phone": "111111111111111111",
  "emails": null,
  "timezone": "America/Los_Angeles",
  "serverUrl": "https://example.informatica.com/saas",
  "icSessionId": "IV4w0rJmd6YUtmKAt8"
}

You can then use the icSessionId and the serverUrl to construct a request to delete a schedule with the schedule ID of 000001D00000000000001:

DELETE http://example.informatica.com/saas/api/v2/schedule/000001D00000000000001 HTTP/1.0
Accept: application/xml
icSessionId: IV4w0rJmd6YUtmKAt8

Note that Content-Type is not required because the DELETE method does not have additional attributes to pass in the request body.

**XML Example**

To log in using XML, you might use the following header and body:

POST https://app.informaticaondemand.com/m/api/v2/user/login HTTP/1.0
Content-Type: application/xml
Accept: application/xml

<login>
  <username>useremail@company.com</username>
  <password>mypassword</password>
</login>

The login might return the following information:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<user>
  <id>00000b030000000000001</id>
  <orgId>00000B</orgId>
  <name>useremail@company.com</name>
  <createTime>2012-06-14T15:00:00.0002</createTime>
  <updateTime>2012-06-14T15:00:00.0002</updateTime>
  <createdBy>System</createdBy>
  <updatedBy>useremail@company.com</updatedBy>
  <firstName>Firstname</firstName>
  <lastName>Lastname</lastName>
  <title>Senior Software Engineer</title>
  <password>**********</password>
  <phone>111111111111111111</phone>
  <timezone>America/Los_Angeles</timezone>
</user>
```

icSessionId: IV4w0rJmd6YUtmKAt8
</icSessionId>
You can then use the icSessionId and the serverUrl to construct a request to delete a schedule as follows. The schedule ID is 000001D0000000000001.

```
DELETE http://example.informatica.com/saas/api/v2/schedule/000001D0000000000001 HTTP/1.0
Accept: application/xml
icSessionId: 1V4wOJ9m6YUtMka8t
```

Note that Content-Type is not required because the DELETE method does not have additional attributes to pass in the request body.

## Update Modes

You can submit a POST request using full update mode or partial update mode.

Use partial mode to submit a POST request that only includes the changed object fields, instead of including all of the object fields. For example, if you want to update the connection in an mttask object, you can submit a POST request using partial mode that might look like the following example:

```
POST api/v2/mtttask/<taskId> HTTP/1.0
Content-Type: application/json
Accept: application/json
icSessionId: <icSessionId>
Update-Mode: PARTIAL
{
  "@type": "mtTask",
  "parameters": [
    {
      "@type": "mtTaskParameter",
      "name": "$NewSource$",
      "type": "EXTENDED_SOURCE",
      "sourceConnectionId": "<sourceConnectionId>"
    }
  ]
}
```

If you do not use partial mode, you need to include the entire object in the request. By default, the REST API uses full mode.

Partial mode is available for the following resources:

- connection
- fwConfig
- masterTemplate
- mttask
- schedule
- workflow

When you submit a POST request in partial mode, format the request using JSON and include the following line in the header:

```
Update-Mode=PARTIAL
```

Include the `@type` attribute for the updated object in the body.
Some fields are grouped in collections. To update a field that resides in a collection, include the key field for the collection in the POST request. The following table lists the collections and corresponding key fields:

<table>
<thead>
<tr>
<th>Resource</th>
<th>Collection</th>
<th>Key Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>fwConfig</td>
<td>fwColumn</td>
<td>name</td>
</tr>
<tr>
<td>masterTemplate</td>
<td>mtParameter</td>
<td>name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>type</td>
</tr>
<tr>
<td>mttask</td>
<td>mtTaskInOutParameter</td>
<td>name</td>
</tr>
<tr>
<td>mttask</td>
<td>sequenceDefinition</td>
<td>txName</td>
</tr>
<tr>
<td>mttask</td>
<td>mtTaskOverriddenField</td>
<td>name</td>
</tr>
<tr>
<td>mttask</td>
<td>mtTaskParameter</td>
<td>name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>type</td>
</tr>
<tr>
<td>workflow</td>
<td>workflowTask</td>
<td>taskId</td>
</tr>
</tbody>
</table>

## Date/Time Values

With the REST API, Informatica Cloud uses the UTC date format to pass all date/time values.

Use the following UTC date format for all date/time values that you pass in requests. The same format is used for all date/time values returned from Informatica Cloud.

```
<yyyy>-<MM>-<dd>T<HH>:<mm>:<ss>.<SSS>Z
```

The following list describes the attributes of the UTC date format:

- **yyyy**
  - Year expressed in four digits.
- **MM**
  - Month expressed in two digits.
- **dd**
  - Date of the month expressed in two digits.
- **T**
  - Indicates the time portion of the format.
- **HH**
  - Hour in the 24-hour format. For example, 0 for 12:00:00 a.m. and 23 for 11:00:00 p.m.
- **mm**
  - Minutes expressed in two digits.
- **ss**
  - Seconds expressed in two digits.
Microseconds expressed in three digits.

UTC time indicator.

For example, the following date string represents 3:00 pm on December 14, 2012:

2012-12-14T15:00:00.000Z

Object IDs

Many requests require an object ID, such as a connection ID or task flow ID. To find the object ID that you need, you can use the related GET request.

For example, to determine the task flow ID that you need to update a task flow, you can use a workflow GET request to view the details of all task flows in the organization. The return list of task flow details includes the task flow ID. Similarly, to determine the ID of a user, you can perform a user GET request.

Object IDs are not readily available through the Informatica Cloud application.

Session IDs

When you log in to an Informatica Cloud organization using the REST API, the login resource returns the REST API session ID in the icSessionId attribute. You include this session ID in subsequent REST API requests during the session. The session ID is valid for two hours.

You can submit a POST request to determine the status of a session ID. Use the following URI to submit the request:

/api/v2/user/validSessionId

Include the following attributes in the request:

- icToken. The session ID.
- userName. Your Informatica Cloud user name.

For example, you might use the following request:

```
POST https://app.informaticaondemand.com/saas/api/v2/user/validSessionId HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "validatedToken",
  "userName": "user@informatica.com",
  "icToken": "<icSessionId>"
}
```

The response returns whether the session ID is valid or not. The response also includes the number of minutes left before the session ID expires.
REST API Responses

The following table describes the responses to REST API requests:

<table>
<thead>
<tr>
<th>REST API Request</th>
<th>Successful Response</th>
<th>Failure Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>For an information request, returns the requested object or an array of objects when applicable. For an action request, returns the HTTP 200 success code. Can also return the REST API success object.</td>
<td>HTTP 403 error, including a REST API error object.</td>
</tr>
<tr>
<td>POST</td>
<td>The object that you created or updated.</td>
<td>HTTP 403 error, including a REST API error object.</td>
</tr>
<tr>
<td>DELETE</td>
<td>HTTP 200 success code. Can also return the REST API success object.</td>
<td>HTTP 403 error, including a REST API error object.</td>
</tr>
</tbody>
</table>

For example, if you use a GET request to view a schedule, a successful response is the schedule object that you requested. Or, if you use a POST request to update the time that the schedule runs, a successful response is the schedule object that you updated, including the update. If you use a DELETE request to delete a schedule that is no longer being used, a successful response is the 200 success code.

Success Object

When the REST API successfully performs an action, it returns a 200 success response. It might also return a success object.

The success object has the following structure:

```xml
<xs:complexType name="success">
  <xs:sequence>
    <xs:element name="description" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Error Object

When the REST API encounters an error, it returns HTTP 403 error, including a REST API error object.

The error object has the following structure:

```xml
<xs:complexType name="error">
  <xs:sequence>
    <xs:element name="code" type="xs:string"/>
    <xs:element name="description" type="xs:string"/>
    <xs:element name="statusCode" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```
## Error Messages

The REST API provides the following error messages:

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Response Key</th>
<th>Response Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>13400</td>
<td>REST_UNKNOWN</td>
<td>The REST API encountered an error: &lt;info&gt;.</td>
</tr>
<tr>
<td>13401</td>
<td>REST_PARAMETERS_ARE_WRONG</td>
<td>Wrong parameters &lt;info&gt;.</td>
</tr>
<tr>
<td>13402</td>
<td>REST_ERROR_PARISING_JSON_OBJECT</td>
<td>Error parsing JSON object.</td>
</tr>
<tr>
<td>13403</td>
<td>REST_ERROR_WRITING_JSON_OBJECT</td>
<td>Error writing JSON object.</td>
</tr>
<tr>
<td>13404</td>
<td>REST_INVALID_OBJECT_ID</td>
<td>Object identifier is invalid or missing, property is &lt;info&gt;.</td>
</tr>
<tr>
<td>13405</td>
<td>REST_NO_OBJECTS</td>
<td>Connection has no objects.</td>
</tr>
<tr>
<td>13406</td>
<td>REST_INVALID_SUBORG_ID</td>
<td>Sub org identifier is invalid, property is &lt;info&gt;.</td>
</tr>
<tr>
<td>13407</td>
<td>REST_REGISTRATION_ERROR</td>
<td>Error during user registration.</td>
</tr>
<tr>
<td>13408</td>
<td>REST_INSUFFICIENT_SUBORG_PRIVILEGE</td>
<td>Insufficient privileges to create suborg. User must have org hierarchy license and update org privilege to create suborg.</td>
</tr>
<tr>
<td>13409</td>
<td>REST_MAX_SUBORG_LIMIT</td>
<td>Maximum subOrgLimit reached.</td>
</tr>
<tr>
<td>13410</td>
<td>REST_PARENT_ORG_HAS_PARENT_ORG</td>
<td>Parent org which already has a parent org could not create a subOrg.</td>
</tr>
<tr>
<td>13411</td>
<td>REST_INSUFFICIENT_VIEW_USER_PRIVILEGE</td>
<td>Insufficient privileges to view user.</td>
</tr>
<tr>
<td>13412</td>
<td>REST_INSUFFICIENT_DELETE_USER_PRIVILEGE</td>
<td>Insufficient privileges to delete user.</td>
</tr>
<tr>
<td>13413</td>
<td>REST_DNB_EMPTY_ID_UNAME</td>
<td>Empty value for id and uname.</td>
</tr>
<tr>
<td>13414</td>
<td>REST_INVALID_CONN_ID</td>
<td>Invalid connection ID.</td>
</tr>
<tr>
<td>13415</td>
<td>REST_INVALID_CONN_ID_TYPE</td>
<td>Enter a valid connectionId with a valid connection type &lt;type&gt; for the application type &lt;type&gt;.</td>
</tr>
<tr>
<td>13416</td>
<td>REST_INVALID_SCHEDULE_ID</td>
<td>Invalid schedule ID.</td>
</tr>
<tr>
<td>13417</td>
<td>REST_INVALID_USERNAME</td>
<td>Invalid user name. It must be a valid email address.</td>
</tr>
<tr>
<td>13418</td>
<td>REST_INVALID_PASSWORD</td>
<td>Invalid password.</td>
</tr>
<tr>
<td>13419</td>
<td>REST_INVALID_FIRSTNAME</td>
<td>Invalid first name.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Response Key</td>
<td>Response Text</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>13420</td>
<td>REST_INVALID_LASTNAME</td>
<td>Invalid last name.</td>
</tr>
<tr>
<td>13421</td>
<td>REST_INVALID_PHONE</td>
<td>Invalid phone.</td>
</tr>
<tr>
<td>13422</td>
<td>REST_INVALID_EMAIL</td>
<td>Invalid email.</td>
</tr>
<tr>
<td>13423</td>
<td>REST_INVALID_TIMEZONE</td>
<td>Invalid time zone.</td>
</tr>
<tr>
<td>13424</td>
<td>REST_INVALID_LICENSE</td>
<td>You cannot use the REST API. You must have a valid REST API license to use the REST API. Contact Informatica Global Customer Support.</td>
</tr>
<tr>
<td>13425</td>
<td>REST_INVALID_TASK_TYPE</td>
<td>Invalid taskType.</td>
</tr>
<tr>
<td>13426</td>
<td>REST_INVALID_AGENT_ID</td>
<td>Invalid Secure Agent ID.</td>
</tr>
<tr>
<td>13427</td>
<td>REST_INVALID_CODE_PAGE</td>
<td>Invalid codepage. It must be UTF-8 or MS1252.</td>
</tr>
<tr>
<td>13428</td>
<td>REST_INVALID_TYPE</td>
<td>Invalid type &lt;type&gt;.</td>
</tr>
<tr>
<td>13429</td>
<td>REST_INVALID_TASK_ID</td>
<td>Invalid taskId &lt;id&gt;.</td>
</tr>
<tr>
<td>13430</td>
<td>REST_INVALID_TASK_NAME</td>
<td>Invalid task name &lt;name&gt;.</td>
</tr>
<tr>
<td>13431</td>
<td>REST_INVALID_RUN_TASK</td>
<td>Invalid privileges when running &lt;task&gt; task with id &lt;id&gt;.</td>
</tr>
<tr>
<td>13434</td>
<td>REST_INVALID_CERTIFICATE_FILE_TYPE</td>
<td>Invalid certificateFileType.</td>
</tr>
<tr>
<td>13435</td>
<td>REST_INVALID_AUTHENTICATION_TYPE</td>
<td>Invalid authenticationType.</td>
</tr>
<tr>
<td>13436</td>
<td>REST_INVALID_PRIVATE_KEY_FILE_TYPE</td>
<td>Invalid privateKeyFileType.</td>
</tr>
<tr>
<td>13437</td>
<td>REST_INVALID_DATE_FORMAT</td>
<td>Invalid date format. Valid values are &lt;info&gt;.</td>
</tr>
<tr>
<td>13438</td>
<td>REST_INVALID_COUNTRY_CODE</td>
<td>Invalid country code.</td>
</tr>
<tr>
<td>13439</td>
<td>REST_INVALID_STATE_CODE</td>
<td>Invalid state code.</td>
</tr>
<tr>
<td>13440</td>
<td>REST_INVALID_TITLE</td>
<td>Invalid title.</td>
</tr>
<tr>
<td>13441</td>
<td>REST_NETSUITE_NOT_SUPPORTED</td>
<td>NetSuite connection type not supported for create or update.</td>
</tr>
<tr>
<td>13442</td>
<td>REST_TOOLKIT_NOT_SUPPORTED</td>
<td>TOOLKIT connection type not supported for create or update.</td>
</tr>
</tbody>
</table>
REST API Guidelines

Use the following guidelines when working with Informatica Cloud REST API:

- Use the login resource to start a two-hour REST API session. Best practice is to log out before the session ends. To continue work with the REST API, start a new session.
- Use the logout resource to log out of the Informatica Cloud session included in the request header. Use the logoutall resource to log out of all REST API sessions started by the user in the request body.
- Construct a request using the JSON or XML format.
- Specify the format of the request and response in the header. Use the Content-Type attribute to specify the request format and the Accept attribute to specify the response format.
- If a request or response type is not configured, Informatica Cloud uses JSON by default.
- Use a placeholder for the icSessionId in request headers for all resources except login, loginSf, logoutall, register, and registerSf. Replace the placeholder with the icSessionId data returned when you log in to a session.
  The login, loginSf, logoutall, register, and registerSf resources do not require the icSessionId in the request header.
- For all resources except login, loginSf, logoutall, register, and registerSf, use a placeholder for the base URL. Replace the placeholder with the serverUrl data returned by the login resource.
- For POST requests, you must include all fields in the request object unless you submit the request in JSON format using partial mode. By default, the REST API uses full mode.
- All resources and attributes are case-sensitive.
- Where indicated, enclose POST request attributes in the specified object. When no object is specified, include attributes in the request body.
- For requests in JSON, use the @type attribute to define an object. For requests in XML, use an enclosing <object name> tag to define an object.
- XML responses that include a list of objects return the objects enclosed in the <root> tag.

Documentation Conventions

Informatica Cloud REST API documentation uses the following conventions:

- Methods are in capital letters, such as GET.
- Request syntax uses the following conventions:
  - Variables are enclosed in angle brackets ( < > ), such as <id> for a user ID.
  - When listing a choice of attribute values, options are separated by a pipe ( | ).
  - Optional attributes are in italics.

Resource Quick Reference

The following list contains the syntax and a brief description of the Informatica Cloud REST API resources:

**activityLog GET**

Returns information from the activity log.
Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/activity/activityLog/<id>
/api/v2/activity/activityLog?rowLimit=rowLimit
/api/v2/activity/activityLog?offset=offset
/api/v2/activity/activityLog?taskId=taskId
/api/v2/activity/activityLog?runId=runId

You can also use the activityLog to download error logs and session logs from the server.

Use the serverUrl from the login response for one of the following URIs:

/api/v2/activity/errorLog/<id>
/api/v2/activity/activityLog/<Top_Level_Log_Entry_Id>/sessionLog?itemId=itemId&childLog-entry-item-id=&childItemId=child-log-entry-item-id

activityMonitor GET

Returns information from the activity monitor.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/activity/activityMonitor?details=true|false

agent GET

Returns the details of a Secure Agent or of all Secure Agents in the organization.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/agent/<id>
/api/v2/agent/name/<name>

agent DELETE

Deletes a Secure Agent.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/agent/<id>

auditlog GET

Returns audit log entries.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/auditlog
/api/v2/auditlog?batchId=batchId&batchSize=batchSize

bundleObject GET

Returns the details of a bundle or the details of all published or installed bundles in the organization.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/bundleObject/<id>
/api/v2/bundleObject/name/<name>
/api/v2/bundleObject/?published=true
/api/v2/bundleObject/?published=true&installed=false
/api/v2/bundleObject/?installed=true
/api/v2/bundleObject/?published=false&installed=true

bundleObject POST

Pushes a published private bundle to sub-organizations.

Use the serverUrl from the login response as the base URL in the following URI:

/api/v2/bundleObject/push/<bundleId>

bundleObjectLicense GET

Returns the details of all bundles available to or installed on the organization.
Use the serverUrl from the login response as the base URL in the following URI:

/api/v2/bundleObjectLicense/<bundleObjectId>

**bundleObjectLicense POST**
Installs a bundle.
Use the serverUrl from the login response as the base URL in the following URI:
/api/v2/bundleObjectLicense/
Use a bundleObjectLicense object to define attributes. Include the following required attribute: bundleId.

**bundleObjectLicense DELETE**
Uninstalls a bundle.
Use the serverUrl from the login response as the base URL in the following URI:
/api/v2/bundleObjectLicense?bundleObjectLicenseId=<bundleObjectLicenseId>&updateOption=<updateOption>

**connection GET**
Returns information related to connections in the organization.
You can request the following information:

- **Connection details.** You can request the details of a connection or of all connections in the organization. Use the serverUrl from the login response as the base URL for one of the following URIs:
  /api/v2/connection/<id>
  /api/v2/connection/name/<name>

- **Connection objects.** You can request a list of objects that you can use as a source or target for the specified connection. Use the serverUrl from the login response as the base URL for one of the following URIs:
  /api/v2/connection/source/<id>
  /api/v2/connection/target/<id>

- **Connection details by runtime environment.** You can request a list of all connections in the organization that use a particular runtime environment. Use the serverUrl from the login response as the base URL for the following URI:
  /api/v2/connection/<runtimeEnvironmentId>

- **Connections by Secure Agent and connection type.** You can request a list of connections by Secure Agent ID and connection type. Use the serverUrl from the login response as the base URL for the following URI:
  /api/v2/connection/search?agentId=<agent ID>&uiType=<uiType>

- **Metadata details.** To request metadata details for a connection, use the following URI:
  /api/v2/connection/<source or target>/id>/metadata

- **Test connection.** To test a connection, use the serverUrl from the login response as the base URL for the following URI:
  /api/v2/connection/test/<id>

**connection POST**
Creates or updates a connection.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/connection/<id>
Use a connection object to define attributes.

**connection DELETE**
Deletes a connection.
Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/connection/<id>

customFunc GET

Returns the details of a mapplet or of all mapplets in the organization.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/customFunc/<id>
/api/v2/customFunc/name/<name>

customFunc POST

Uploads a PowerCenter mapplet.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/customFunc/<id>

Define attributes in the request body and encode the request body as multipart/form-data. Include the following required attributes: file, name.

customFunc DELETE

Deletes a mapplet.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/customFunc/<id>

dataPreview GET

Use this resource to preview data during mapping design. Returns up to ten rows of source or target data for a specified object.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/connection/<source or target>/<connId>/datapreview/<object name>
/api/v2/connection/<source or target>/name/<name>/datapreview/<object name>

expressionValidation POST

Validates expressions and returns a success or error response.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/expression/validate

field GET

Returns the field details for a source or target object.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/connection/<source or target>/id/field/<objectName>
/api/v2/connection/<source or target>/name/<name>/field/<object name>
/api/v2/connection/<source or target>/id/fields?objectName=<objectName>

field POST

Updates the flat file attributes for a source or target object.
Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/connection/<source or target>/id/field/<objectName>

The flat file attributes provided in the request override the default attributes specified in the connection object.

**fileRecord POST**

Upload an integration template XML file or image file.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/fileRecord

Define attributes in the request body and encode the request body as multipart/form-data. Include the following required attributes: file, name.

**fileRecord DELETE**

Delete an integration template file or image file.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/fileRecord/id

**fwConfig GET**

Returns the details of a fixed-width format.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/fwConfig/id
/api/v2/fwConfig/name/<name>

**fwConfig POST**

Uploads a fixed-width format.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/fwConfig/id

**fwConfig DELETE**

Delete a fixed-width format.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/fwConfig/id

**job POST**

Starts or stops a task or task flow and optionally provides job status. You can perform the following actions:

- To start a task or task flow, use the serverUrl from the login response as the base URL for the following URI:
  /api/v2/job
- To stop a task or task flow, use the serverUrl from the login response as the base URL for the following URI:
  /api/v2/job/stop

Use a job object to define attributes. Include the following required attributes: taskId or taskName, and taskType.

**licenseInfo GET**

Returns the license details for the organization that you are logged in to or a specified sub-organization.
Use the serverUrl from the login response as the base URL in the following URI:
/api/v2/licenseInfo/org/<id>

licenseInfo POST
Updates license information for a sub-organization.
Use the serverUrl from the login response as the base URL in the following URI:
/api/v2/licenseInfo/org/<id>
Use the orgLicenseInfo object to update license information.

login POST
Logs into an organization and returns a session ID that you can use for other resource calls.
You can log in using the following credentials:
- Informatica Cloud. To log in to an organization with your Informatica Cloud user account, use the following URL:
  https://app.informaticaon_demand.com/ma/api/v2/user/login
  Omit icSessionId from the request header.
  Use a login object for attributes. Include the following required attributes: username, password.
- Salesforce. To log in to an organization with a Salesforce session ID and Salesforce server URL:
  https://app.informaticaon_demand.com/ma/api/v2/user/loginSf
  Use a login object to define attributes. Include the following required attributes: sfSessionId, sfServerUrl.

loginSAML POST
For SAML single sign-on users, logs into an organization and returns a session ID that you can use for other resource calls.
To log in to an organization, use the following URL:
https://app.informaticaon_demand.com/ma/api/v2/user/loginSAML
Omit icSessionId from the request header. Include the following required attributes in the login object: orgId, samlToken.

logout POST
Logs out of an organization and ends the REST API session included in the request header.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/user/logout

logoutall POST
Logs out of an organization and ends all REST API sessions for the organization.
Use the following URL:
https://app.informaticaon_demand.com/ma/api/v2/user/logoutall
Use a logout object to define attributes. Include the following required attributes: username, password.
Omit icSessionId from the request header.

mapping GET
Returns the details of a mapping or of all mappings in the organization. Can also return an image of a mapping.
Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/mapping/<id>
/api/v2/mapping/name/<name>
/api/v2/mapping/search?name=<name>
/api/v2/mapping/<id>/image?deployed=true|false

**masterTemplate GET**

Returns information about integration templates. You can request the following information:

- Integration templates. You can request the details of an integration template or of all integration templates in the organization. Use the serverUrl from the login response as the base URL for one of the following URIs:
  /api/v2/masterTemplate/<id>
  /api/v2/masterTemplate/name/<name>

- Mapping Configuration tasks. You can request a list of Mapping Configuration tasks that use an integration template. Use the serverUrl from the login response as the base URL for the following URI:
  /api/v2/masterTemplate/<id>/tasks

**masterTemplate POST**

Creates or updates an integration template.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/masterTemplate/<id>

Use a masterTemplate object to define attributes.

**masterTemplate DELETE**

Deletes an integration template.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/masterTemplate/<id>

**mttask GET**

Returns the details of a Mapping Configuration task.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/mttask/<id>
/api/v2/mttask/name/<name>

**mttask POST**

Creates or updates a Mapping Configuration task.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/mttask/<id>

Use an mttask object to define attributes.

**mttask DELETE**

Deletes a Mapping Configuration task.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/mttask/<id>

**org GET**

Returns the details of your Informatica Cloud organization or a related sub-organization.
Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/org/<id>
/api/v2/org/name/<name>

**org POST**

Updates the details of an Informatica Cloud organization or a related sub-organization.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/org/<id>

Use an org object to define attributes.

**org DELETE**

Deletes a related sub-organization.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/org/<id>

**permission GET**

Returns permission details for a specific entity.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/permission/<id>

**permission POST**

Updates permissions for a specified object. The following values for the updatetype request parameter determine how to apply the permissions:

- set. The permissions of the user groups provided in the request are updated and permissions for the remaining user groups are set to default.
- setdefault. The permissions of all user groups are set to default. The request body is optional.
- update. The permissions of the user groups provided in the request are updated while the permissions of user groups that are not mentioned in request remain unaffected.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/permission/<id>

**register POST**

Creates an Informatica Cloud organization. You can use the following methods to create an organization:

- Creates an Informatica Cloud organization based on user and company information. Use the following URL:
  
  https://app.informaticaondemand.com/ma/api/v2/user/register

  Omit the icSessionId from the request header.

- Creates an Informatica Cloud sub-organization based on an Informatica Cloud user account. Use the serverUrl from the login response as the base URL for the following URI:
  
  /api/v2/user/register

  Define the icSessionId in the request header.

- Creates an Informatica Cloud organization based on Salesforce account details. Use the following URL:
  
  https://app.informaticaondemand.com/ma/api/v2/user/registerSf

  Use a registration object to define attributes.
runtimeEnvironment GET
Returns the details of the runtime environments used by the organization.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/runtimeEnvironment

schedule GET
Returns the details of a schedule or of all schedules in the organization.
Use the serverUrl from the login response as the base URL for one of the following URIs:
/api/v2/schedule/<id>
/api/v2/schedule/name/<name>

schedule POST
Creates or updates a schedule.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/schedule/<id>
Use a schedule object to define attributes.

schedule DELETE
Deletes a schedule.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/schedule/<id>

serverTime GET
Returns the local time for the Informatica Cloud server.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/server/serverTime

task GET
Returns a list of tasks of the specified type.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/task?type=<type>

user GET
Returns the details of an Informatica Cloud user account or of all user accounts in the organization.
Use the serverUrl from the login response as the base URL for one of the following URIs:
/api/v2/user/<id>
/api/v2/user/name/<name>

user POST
Creates or updates an Informatica Cloud user account.
Use the serverUrl from the login response as the base URL for the following URI:
/api/v2/user/<id>
Use a user object to define attributes.

user DELETE
Deletes an Informatica user account.
Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/user/<id>

**usergroup GET**

Returns the details of a user group or of all user groups in the organization.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/usergroup/<id>
/api/v2/usergroup/name/<name>

**workflow GET**

Returns the details of a task flow or of all task flows in the organization.

Use the serverUrl from the login response as the base URL for one of the following URIs:

/api/v2/workflow/<id>
/api/v2/workflow/name/<name>
/api/v2/workflow/?simpleMode=true

**workflow POST**

Creates or updates a task flow.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/workflow/<id>

Use a workflow object to define attributes.

**workflow DELETE**

Deletes a task flow.

Use the serverUrl from the login response as the base URL for the following URI:

/api/v2/workflow/<id>
CHAPTER 2

Informatica Cloud REST API Resources

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activityLog

Use this resource to request information from the activity log. You can also request error logs and session logs from the server.

GET Request

You can request all of the activity log information or filter the activity log response. To request information from the activity log, use the following URI:

/api/v2/activity/activityLog

To request information for a specific activity log ID, use the following URI:

/api/v2/activity/activityLog/<id>

To request information for a specific run ID, use the following URI:

/api/v2/activity/activityLog?runId=<runId>

To request information for a specific task, you can use the task ID, use the following URI:

/api/v2/activity/activityLog?taskId=<taskId>

To specify the number of rows to skip, use the following URI:

/api/v2/activity/activityLog?offset=<offset>

To specify a row limit, use the following URI:

/api/v2/activity/activityLog?rowLimit=<rowLimit>

You can use any combination of these options. For example, you can use the following URI in a request:

/api/v2/activity/activityLog?offset=<offset>&rowLimit=<rowLimit>&taskId=<taskId>&runId=<runId>

You can use the following optional activityLog GET URI attributes:

id
Activity log entry ID.
Include this attribute if you want to receive information for a specific ID.

runId
Job ID associated with the log entry ID.

taskId
Task ID associated with the log entry ID. If taskId is not specified, all activityLog entries for all tasks are returned.
offset

The number of rows to skip. For example, you might want to skip the first three rows.

rowLimit

The maximum number of rows to return. The maximum number you can specify is 1000.

If you omit this attribute, the activityLog returns all available rows, up to a maximum of 200 rows.

GET Response

Returns an activityLogEntry object for each row in the activity log or returns an activityLogEntry object for the specified ID. Returns the error object if errors occur.

When you request information for each row in the activity log, the activityLogEntry object includes the following attributes:

id

Activity log entry ID.

type

The type of task. Returns one of the following codes:

- AVS. Contact Validation task.
- DMASK. Data Masking task.
- DQA. Data Assessment task.
- DRS. Data Replication task.
- DSS. Data Synchronization task.
- MTT. Mapping Configuration task.
- PCS. PowerCenter task.
- WORKFLOW. Linear taskflow.
- DNB_TASK. D&B360 task.
- DNB_WORKFLOW. D&B360 workflow.

objectId

Task ID.

objectName

Name of the task.

runId

ID for the task run.

agentId

Agent that runs the task.

runtimeEnvironmentId

Runtime environment where the task runs.

startTime

Start time for the task or task flow. Uses Eastern Time Zone (ET).

endTime

End time for the task or task flow. Uses Eastern Time Zone (ET).
startTimeUtc

Start time for the task or task flow. Uses Coordinated Universal Time (UTC).

endTimeUtc

End time for the task or task flow. Uses Coordinated Universal Time (UTC).

state

Whether the task completed successfully. Returns one of the following codes:

- 1. The task completed successfully.
- 2. The task completed with errors.
- 3. The task failed to complete.

failedSourceRows

Number of rows that were not read from the source.

successSourceRows

Number of rows that are successfully read from the source.

failedTargetRows

Number of rows that were not written to the target.

successTargetRows

Number of rows that were successfully written to the target.

errorMsg

Error message associated with the job.

startedBy

User who started the task.

runContextType

Method through which the task was initiated. Includes the following values:

- UI. Task was initiated through the Informatica Cloud user interface.
- SCHEDULER. Task was initiated through the task scheduler.
- REST-API. Task was initiated through the REST API.
- OUTBOUND MESSAGE. Task was initiated through an outbound message.

scheduleName

Schedule name, if task was initiated by a schedule.

entries

Indicates the start of information for a child object. A child object might be a task within a task flow, or an object in a data replication task or D&B360 workflow.

When you request activity log information for a specific ID, the activityLogEntry object includes the following attributes:

id

Activity log entry ID.
**type**

The type of task. Returns one of the following codes:

- AVS. Contact Validation task.
- DMASK. Data Masking task.
- DQA. Data Assessment task.
- DRS. Data Replication task.
- DSS. Data Synchronization task.
- MTT. Mapping Configuration task.
- PCS. PowerCenter task.
- WORKFLOW. Linear taskflow.
- DNB_TASK. D&B360 task.
- DNB_WORKFLOW. D&B360 workflow.

**objectId**

Task ID.

**objectName**

Name of the task.

**runId**

ID for the task run.

**agentId**

Agent that runs the task.

**runtimeEnvironmentId**

Runtime environment where the task runs.

**startTime**

Start time for the task or task flow. Uses Eastern Time Zone (ET).

**endTime**

End time for the task or task flow. Uses Eastern Time Zone (ET).

**startTimeUtc**

Start time for the task or task flow. Uses Coordinated Universal Time (UTC).

**endTimeUtc**

End time for the task or task flow. Uses Coordinated Universal Time (UTC).

**state**

Whether the task completed successfully. Returns one of the following codes:

- 1. The task completed successfully.
- 2. The task completed with errors.
- 3. The task failed to complete.

**failedSourceRows**

Number of rows that were not read from the source.
successSourceRows
Number of rows that are successfully read from the source.

failedTargetRows
Number of rows that were not written to the target.

successTargetRows
Number of rows that were successfully written to the target.

errorMsg
Error message associated with the job.

startedBy
User who started the task.

runContextType
Method through which the task was initiated. Includes the following values:
- UI. Task was initiated through the Informatica Cloud user interface.
- SCHEDULER. Task was initiated through the task scheduler.
- REST-API. Task was initiated through the REST API.
- OUTBOUND MESSAGE. Task was initiated through an outbound message.

scheduleName
Schedule name, if task was initiated by a schedule.

orgId
Organization ID.

totalSuccessRows
Total number of rows that were successfully read from the source and written to the target.

totalFailedRows
Total number of rows that were not read from the source and written to the target.

logFilename
The name of the generated log file.

errorFilename
The name of the generated error file.

errorFileDir
The location of the error file on the Secure Agent machine.

connType
Connection type.

stopOnError
Determines the runtime environment action to take when an nonfatal error occurs. Includes the following values:
- True. The task flow stops when an error occurs.
- False. The task flow continues to process when an error occurs.
items

Includes the following attributes in the activityLogEntryItem object:

type

The type of task. Returns one of the following codes:

- AVS. Contact Validation task.
- DMASK. Data Masking task.
- DQA. Data Assessment task.
- DRS. Data Replication task.
- DSS. Data Synchronization task.
- MTT. Mapping Configuration task.
- PCS. PowerCenter task.
- WORKFLOW. Linear taskflow.
- DNB_TASK. D&B360 task.
- DNB_WORKFLOW. D&B360 workflow.

objectId

Task ID.

objectName

Name of the task.

runId

ID for the task run.

agentId

Agent that ran the task.

runTimeEnvironmentId

Runtime environment where the task ran.

startTime

Start time for the task or task flow. Uses Eastern Time Zone (ET).

endTime

End time for the task or task flow. Uses Eastern Time Zone (ET).

state

Whether the task completed successfully. Returns one of the following codes:

- 1. The task completed successfully.
- 2. The task completed with errors.
- 3. The task failed to complete.

errorMsg

Error message associated with the job.

connType

Connection type.
children

Returns an activityLogEntryItem object for each table in the task flow.

transformationEntries

Includes the following attributes for each transformation in the transformationLogEntry object:
- txName. Transformation name.
- txType. Transformation type.
- successRows. Number of successful rows for the transformation.
- failedRows. Number of failed rows for the transformation.

sequenceValues

Returns information generated from a task that includes the sequence generator transformation.
Includes the following attributes in the sequenceValueLogEntry object:
- txName. Transformation name.
- nextValue. The last value generated by the task.

inOutParameterValues

The in-out parameter values used in the task. Includes the following attributes in the inOutParameterValueLogEntry object:
- name. Parameter name.
- value. Parameter value.

startedBy

User who started the task.

runContextType

Method through which the task was initiated. Includes the following values:
- UI. Task was initiated through the Informatica Cloud user interface.
- SCHEDULER. Task was initiated through the task scheduler.
- REST-API. Task was initiated through the REST API.
- OUTBOUND MESSAGE. Task was initiated through an outbound message.

scheduleName

Schedule name, if task was initiated by a schedule.

GET Example

To request 20 rows of information returned from the activity log in JSON format, you might use the following request:

GET <serverUrl>/api/v2/activity/activityLog?rowLimit=20 HTTP/1.0
Accept:application/json
icSessionId: <icSessionId>

A successful request returns a list: an activityLogEntry object for each entry returned from the activity log.

The following text is a sample return in JSON:

```json
[
  {
    "@type": "activityLogEntry",
    "id": "000001C100000000000D",
    "type": "DSS",
    "objectName": "dss-f2f",
  }
]```
To request an error log from the server for a specific activity log ID, use the following URI:

/api/v2/activity/errorLog/id

To retrieve an error log from the server, you might use the following request:

GET <server URL>/api/v2/activity/errorLog/000002C10000000002BG HTTP/1.0
Accept:application/json
icSessionId: <icSessionId>

The server returns the error log as a string, as shown in the following example:

"Col1","Col2","Error"

"05/11/2015 00:00:00.000000000","05/11/2015 00:00:00.000000000","ERROR: Target table [test] has no keys specified."

"05/11/2015 00:00:00.000000000","05/11/2015 00:00:00.000000000","ERROR: Target table..."
Session Log Requests

You can download session logs for all task types using the sessionLog API. For tasks that have subtasks such as Data Replication and task flows, you can download a ZIP file that contains all of the session logs in the hierarchy. For Data Replication tasks, which have two levels of tasks, you can specify an itemId to return a session log for a subtask if you do not want all of the session logs. For task flows, which have three levels of tasks, you can specify an itemId or childItemId to return a session log for a particular subtask.

Use the following URI to download session logs:

```
/saas/api/v2/activity/activityLog/<Top_Level_Log_Entry_Id>/sessionLog?itemId=<child-log-entry-item-id>&childItemId=<child-log-entry-item-id>
```

The following example requests include a request for a specific session log and requests for session logs for subtasks:

- To request a session log, which may return a ZIP file if the task is a Data Replication task or task flow, you might use the following request:
  
  `/saas/api/v2/activity/activityLog/000001C1000000000591/sessionLog`

- To request a session log for a particular subtask for a Data Replication task or task flow, you might use the following request:
  
  `/saas/api/v2/activity/activityLog/000001C1000000000591/sessionLog?itemId=233`

- To request a session log for a sub-subtask in a task flow, you might use the following request:
  
  `/saas/api/v2/activity/activityLog/000001C1000000000591/sessionLog?itemId=233&childItemId=234`

activityMonitor

Use this resource to request information from the activity monitor.

GET Request

To request information from the activity monitor, use the following URI:

```
/api/v2/activity/activityMonitor?details=<true|false>
```

You can use the following activityMonitor GET URI attribute:

**details**

Optional.

Activity monitor detail to be returned from Informatica Cloud. Use one of the following options:

- true. Returns activity monitor information for tasks, task flows, and child objects. Child objects can include tasks within task flows, and objects within data replication tasks and D&B360 workflows.
- false. Returns activity monitor information for tasks and task flows.
Default is false. If you omit this optional attribute, activitymonitor does not return additional details.

**GET Response**

Returns an activityMonitorEntry object for each row in the activity monitor. Returns the error object if errors occur.

The activityMonitorEntry object includes the following GET response attributes:

**id**
Activity monitor entry ID.

**type**
The type of task. Returns one of the following codes:
- AVS. Contact Validation task.
- DMASK. Data Masking task.
- DQA. Data Assessment task.
- DRS. Data Replication task.
- DSS. Data Synchronization task.
- MTT. Mapping Configuration task.
- PCS. PowerCenter task.
- WORKFLOW. Linear taskflow.
- DNB_TASK. D&B360 task.
- DNB_WORKFLOW. D&B360 workflow.

**taskId**
Task ID.

**taskName**
Task name.

**objectName**
Source object used in the task, or the data replication or D&B360 object being processed.

**runId**
ID for the task run.

**startTime**
Start time for the task or task flow.

**endTime**
End time for the task or task flow.

**executionState**
State of the task. Returns one of the following codes:
- INITIALIZED
- RUNNING
- STOPPING
- COMPLETED
- FAILED

failedSourceRows
Number of rows that were not read from the source.

successSourceRows
Number of rows that were successfully read from the source.

failedTargetRows
Number of rows that were not written to the target.

successTargetRows
Number of rows that were successfully written to the target.

erMsg
Error message associated with the job.

entries
Indicates the start of information for a child object. A child object might be a task within a task flow, or an object in a data replication task or D&B360 workflow.

agentId
Agent used for the activity.

runtimeEnvironmentId
Runtime environment used for the activity.

startedBy
User who started the task.

runContextType
Method through which the task was initiated. Includes the following values:

- UI. Task was initiated through the Informatica Cloud user interface.
- SCHEDULER. Task was initiated through the task scheduler.
- REST-API. Task was initiated through the REST API.
- OUTBOUND MESSAGE. Task was initiated through an outbound message.

scheduleName
Schedule name, if task was initiated by a schedule.

callbackURL
Status of the job.

GET Example
To return activity monitor information including details about child objects in XML, you might use the following request:

GET <serverUrl>/api/v2/activity/activityMonitor?details=true HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>

A successful request returns a list: an activityMonitorEntry object for each item returned from the activity monitor.
The following text is a sample return in XML:

```xml
<root>
  <activityMonitorEntry>
    <id>000001C100000000000D</id>
    <type>DSS</type>
    <objectName>dss-f2f</objectName>
    <runId>0</runId>
    <startTime>2012-07-30T13:30:00.0002</startTime>
    <endTime></endTime>
    <executionState>RUNNING</executionState>
    <failedSourceRows>0</failedSourceRows>
    <successSourceRows>938</successSourceRows>
    <failedTargetRows>0</failedTargetRows>
    <successTargetRows>596</successTargetRows>
    <errorMsg> </errorMsg>
    <entries> <entries>
      <agentId>00000C800000000003</agentId>
      <runtimeEnvironmentId>0000C2500000000002</runtimeEnvironmentId>
    </entries> </entries>
  </activityMonitorEntry>
  <activityMonitorEntry>
    <id>000001C500000000000L</id>
    <type>PCS</type>
    <objectName>pcs-lookup</objectName>
    <runId>2</runId>
    <startTime>2012-07-30T13:30:03.0012</startTime>
    <endTime>2012-07-30T13:30:03.0102</endTime>
    <executionState>COMPLETE</executionState>
    <failedSourceRows>0</failedSourceRows>
    <successSourceRows>688</successSourceRows>
    <failedTargetRows>0</failedTargetRows>
    <successTargetRows>688</successTargetRows>
    <errorMsg> </errorMsg>
    <entries> <entries>
      <agentId>00000C800000000003</agentId>
      <runtimeEnvironmentId>0000C2500000000002</runtimeEnvironmentId>
    </entries> </entries>
  </activityMonitorEntry>
</root>
```

**agent**

Use this resource to request the details of an Informatica Cloud Secure Agent or the details of all Secure Agents in the organization. You can also request the details of services that run on a Secure Agent or details of services that run on all Secure Agents in the organization. You can also use this resource to delete a Secure Agent.

**GET Request**

To request the details of all Secure Agents in the organization, use the following URI:

```
/api/v2/agent
```

To request the details of a particular Secure Agent, you can include the Secure Agent ID or the Secure Agent name in the URI. Use one of the following URIs:

```
/api/v2/agent/<id>
```

```
/api/v2/agent/name/<name>
```

If you use the Secure Agent name in the URI and the Secure Agent name includes a space, replace the space with `%20`. For example:

```
/api/v2/agent/name/special%20agent
```
To request the details of the services that run on all of the Secure Agents in the organization, use the following URI:

/api/v2/agent/details

To request the details of the services that run on a particular Secure Agent, include the agent ID in the URI as follows:

/api/v2/agent/details/<id>

**GET Response**

Returns the agent object for the requested Secure Agent ID or Secure Agent name.

If you request information for all Secure Agents in the organization, returns an agent object without the packages and agentConfigs attributes for each Secure Agent in the organization.

If you request information for agent services, returns an AgentEngine object in addition to the agent object.

Returns the error object if errors occur.

The agent object includes the following attributes:

- **id**
  
  Secure Agent ID.

- **orgId**
  
  Organization ID.

- **name**
  
  Secure Agent name.

- **description**
  
  Description of the Secure Agent.

- **createTime**
  
  Time the Secure Agent was created.

- **updateTime**
  
  Last time the Secure Agent was updated.

- **createdBy**
  
  User who created the Secure Agent.

- **updatedBy**
  
  User who updated the Secure Agent.

- **active**
  
  Whether the Secure Agent is active. Returns one of the following values:

  - true. Active.
  - false. Inactive.

- **readyToRun**
  
  Whether the Secure Agent is ready to run a task. Returns one of the following values:

  - true. Secure Agent is ready to run a task.
  - false. Secure Agent is not ready to run a task.
platform
   Platform of the Secure Agent machine. Returns one of the following values:
   • win64
   • linux64

gagentHost
   Host name of the Secure Agent machine.

password
   Password of the Secure Agent machine.

proxyHost
   Host name of the outgoing proxy server that the Secure Agent uses.

proxyPort
   Port number of the outgoing proxy server.

proxyUser
   User name to connect to the outgoing proxy server.

proxyPassword
   Password to connect to the outgoing proxy server.

agentVersion
   Secure Agent version.

spiUrl
   Informatica Cloud Application Integration URL for the organization the user belongs to.

upgradeStatus
   Upgrade status.

lastUpgraded
   Last time the Secure Agent was upgraded.

lastUpgradeCheck
   Last time the Secure Agent was checked for upgrade.

lastStatusChange
   Last time the Secure Agent status was updated.

packages
   Informatica Cloud Connector packages.

tagentConfigs
   Attribute that defines Secure Agent properties. Includes the following attributes in an agentConfig object
   for each Secure Agent property.

name
   Configuration property name.
type
Configuration type. Returns one of the following values:

- Secure Agent Core
- Secure Agent Manager
- DTM
- Apache Tomcat JRE
- Secure Agent Core JRE

subtype
Configuration subtype. Returns one of the following values:

- INFO
- DEBUG

value
Value of the property.

customized
Whether the property is in the custom configuration details. Returns one of the following values:

- true.
- false.

overridden
Whether the property has been overridden. Returns one of the following values:

- true.
- false.

defaultValue
Default value.

platform
Platform. Returns one of the following values:

- win64
- linux64

configUpdateTime
Last time a user updated Secure Agent properties.

If you request details for the services that run on Secure Agents, the agent object also includes the AgentEngine object. The AgentEngine object includes the following attributes:

agentEngineStatus
Status of the agent service, which includes the following attributes in the AgentEngineStatus object:

appname
The service name that is used internally.

appDisplayName
The service name that displays in the user interface.
appversion
The service version. The version number changes each time you modify the service.

status
The status of the service.

createTime
The time the service was created.

updateTime
The last time the service was updated.

agentEngineConfigs
Attribute that defines agent service properties. Includes the following attributes in an engineConfig object for each agent service property:

type
Configuration type.

name
Configuration property name.

value
Value of the property.

platform
Platform. Returns one of the following values:

• win64
• linux64

customized
Whether the property is in the custom configuration details. Returns one of the following values:

• true.
• false.

DELETE Request
You can delete a Secure Agent if it is not associated with any connections. Before you delete a Secure Agent, update associated connections to use another Secure Agent.

To delete a Secure Agent, use the Secure Agent ID in the following URI:

/api/v2/agent/<id>

DELETE Response
Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

GET Example
To request the details about the Secure Agent with an ID of 000H1L0800000000000001, to be returned in JSON format, you might use the following request:

GET <serverUrl>/api/v2/agent/000H1L0800000000000001 HTTP/1.0
Accept:application/json
icSessionId: <icSessionId>

A successful request returns the agent object.
auditlog

Use this resource to request entries from the audit log.

**GET Request**

To request the most recent 200 entries in the audit log, use the following URI.

/api/v2/auditlog

To request a specific batch of audit log entries, define the batch size and request a batch number with the following URI.

/api/v2/auditlog?batchId=<batchId>&batchSize=<batchSize>

Use the following auditlog GET URI attributes:

- **batchSize**
  - Required
  - Number of entries to include in a batch.

- **batchId**
  - Required
  - The batch that you want to view.
  - Use 0 for the first batch, which contains the most recent audit log entries.

For example, to view entries 26-50, use a batch size of 25, and request batch 1.

**GET Response**

Returns an auditLogEntry object for each audit log entry returned. Returns the error object if errors occur.

The auditLogEntry object includes the following attributes:

- **id**
  - Audit log entry ID.

- **version**
  - Version.

- **orgId**
  - Org ID.

- **username**
  - User who performed the action.

- **entryTime**
  - Time the action occurred.

- **objectId**
  - ID of the object used.

- **objectName**
  - Name of the object used.
**category**

Category of audit log entry. Returns one of the following codes:

- **AUTH.** Authorization.
- **AGREEMENT.** Subscription agreement.
- **SYSTEM_INFO.**
- **ADMIN_REPORT.**
- **ORG.** Organization.
- **USER.**
- **AGENT.** Secure Agent.
- **CONNECTION.**
- **SCHEDULE.**
- **DRS.** Data replication.
- **DQA.** Data assessment.
- **DMASK.** Data masking.
- **DSS.** Data synchronization.
- **DATA_FILE.** File.
- **WORKFLOW.** Task flow.
- **PCS.** PowerCenter.
- **MTT.** Mapping configuration.
- **CUSTOM_FUNC.** Mapplet.
- **MIGRATE.** Migration.
- **CUSTOM_SOURCE.** Saved query.
- **DNBWORKFLOW.** D&B360 workflow.
- **ITEM_VIEW.** Custom views.
- **SUBSCRIPTIONBILLING.**
- **USER_GROUP.**
- **SUB_ORG.** Sub-organization.
- **OBJECT_ACL.** Object permissions.
- **AVS.** Contact validation.
- **PACKAGE.**
- **TEMPLATE.** Integration template.
- **DTEMPLATE.** Mappings.
- **CONNECTOR.** Informatica Cloud Connector.
- **EDITION.** Informatica Cloud edition.
- **SCHEDULEBLACKOUT.** Schedule blackout period.
- **EXT_CONNECTION.** Connections stored on a local Secure Agent.
- **BUNDLE.**
- **ORG_EDITION.** Information about changes to organization edition association. For example, when the organization is reassigned a new edition.
- RUNTIME_ENVIRONMENT.

**event**
Type of action performed. Returns one of the following codes:
- LOGIN
- CREATE
- UPDATE
- DELETE
- DISABLE
- RUN
- VERSION1
- VERSION2
- VERSION3
- VERSION4
- VERSION5
- VERSION6
- VERSION7
- DOWNLOAD
- EXPORT
- IMPORT
- MAKE_DEFAULT
- LINK
- ENCRYPT
- MOVE_CONNS_TO_AGENT
- MOVE_CONNS_TO_IOD
- STOP

**eventParam**
Objects related to the action.

**message**
Additional information.

**GET Example**
To view rows 21-40, you might use the following URI.

```
/api/v2/auditlog?batchId=1&batchSize=20
```
Use this resource to request the details for a specific bundle or the details for all bundles published by the organization or installed by the organization. You can also push a published private bundle to sub-organizations.

**GET Request**

To request the details of a particular bundle, you can include the bundle ID or the bundle name in the URI. Use one of the following URIs:

/api/v2/bundleObject/<id>
/api/v2/bundleObject/name/<name>

If you use the bundle name in the URI and the bundle name includes a space, replace the space with %20. For example:

/api/v2/bundleObject/name/first%20bundle

To request the details for all bundles published by the organization, use one of the following URIs:

/api/v2/bundleObject/?published=true
/api/v2/bundleObject/?published=true&installed=false

To request the details for all bundles installed by the organization, use one of the following URIs:

/api/v2/bundleObject/?installed=true
/api/v2/bundleObject/?published=false&installed=true

**GET Response**

When you request the details for a bundle, returns the bundleObject for the bundle.

When you request a list of published bundles, returns a bundleObject for each bundle that the organization published.

When you request a list of installed bundles, returns a bundleObject for each bundle that the organization installed.

Returns the error object if errors occurred.

The bundleObject includes the following attributes:

- **id**
  - Bundle ID.

- **orgId**
  - Organization ID.

- **name**
  - Bundle name.

- **description**
  - Description.

- **createTime**
  - Time the bundle was created.
updateTime
   Time the bundle was updated.

createdBy
   User who created the bundle.

updatedBy
   User who last updated the bundle.

lastVersion
   The current published version of the bundle.

revokeTime
   This attribute is not used at this time.

paid
   Whether the bundle was purchased. Returns true for paid, false for free.

copyable
   Determines whether users can download the contents of the bundle locally. Includes the following values:
   - True. Users can download the bundle.
   - False. Users cannot download the bundle.

accessType
   Access type for the bundle. Returns the following codes in the BundleObjectAccessType object:
   - PUBLIC. Available to all Informatica Cloud organizations.
   - SUBORGS. Available to sub-organizations of the publishing organization.
   - ACCESS_LIST. Available to the organization IDs in the sharedWith attribute.

objects
   Objects in the bundle. Includes the following attributes in the bundleRefObject object:
   - objectTypeCode. The type of bundle. Includes the following values:
     - 0V. Integration template.
     - 17. Mapping.
     - 0L. Mapplet.
   - objectId. Object identified in the bundle.
   - objectName. Name of the object in the bundle.
   - objectUpdateTime. The date and time that the object in the bundle was last updated.

publishOrgId
   ID of the organization that published the bundle.

publishOrgName
   Name of the organization that published the bundle.

externalId
   External ID for the bundle.
**POST Request**

As part of a parent organization, you can share a private bundle with sub-organizations.

You can push a published private bundle to install the bundle on all sub-organizations. Push a published private bundle when you want the objects in the bundle to be immediately available to all sub-organizations.

To push a bundle to a sub-organization, use the ID of the bundle object in the following URI:

```
/api/v2/bundleObject/push/<bundleId>
```

**POST Response**

Returns the success response if the request is successful. Returns the error object if errors occur.

---

**bundleObjectLicense**

Use this resource to request license information about bundles installed on or available to the organization. You can also install a bundle and uninstall a bundle.

**GET Request**

To request license information for a bundle associated with the organization, use the bundle ID in the following URI:

```
/api/v2/bundleObjectLicense/<bundleObjectId>
```

To request license information for all bundles associated with the organization, omit the optional bundle ID.

**GET Response**

If successful, returns the BundleObjectLicenseType for the requested bundle.

If you request license information for all bundles, returns the bundleObjectLicense object for all bundles associated with the organization.

Returns the error object if errors occur.

The bundleObjectLicense object includes the following attributes:

- **bundleObjectId**
  - Bundle ID.

- **orgId**
  - IDs of the organization.

- **updateOption**
  - This attribute is not used at this time.

- **licenseType**
  - Bundle type. Returns one of the following values:
    - Free.
    - Trial.
    - Subscription.

- **endDate**
  - Date the license expires. Returns NULL for free public bundles.
**numberOfDaysToApply**
This attribute is not used at this time.

**numberOfMonthsToApply**
This attribute is not used at this time.

**beginDate**
Publish date for the bundle.

**bundleVersion**
Version number for the bundle.

**createTime**
Creation date for the bundle.

**installed**
Indicates if the organization installed the bundle. Returns TRUE for installed bundles and FALSE for available bundles.

**active**
Indicates that the bundle is available and active. Returns TRUE.

**accessCode**
Required to install a licensed bundle. Used for sharing private bundles. Read only.

**POST Request**
To install a bundle on the organization, use the following URI:
/api/v2/bundleObjectLicense
With this URI, use the following attributes in a bundleObjectLicense object:

**bundleObjectId**
The ID of the bundle.

**check**
Optional.
Validates the bundle before installation. Use TRUE to validate the bundle.

**POST Response**
Returns the success response if the request is successful. Returns the error object if errors occur.

**DELETE Request**
To uninstall a bundle from the organization, use the following URI:
/api/v2/bundleObjectLicense?bundleObjectId=<bundleId>&updateOption=<updateOption>
Use the following bundleObjectLicense Delete URI attributes:

**bundleObjectId**
The ID of the bundle.

**updateOption**
Optional.
Defines what happens if objects in the bundle are used. Use one of the following options:

- **DELETE_EXISTING_OBJECTS.** Deletes the objects that use the bundle object.
- **UPDATE_EXISTING_OBJECTS.** Updates the object that uses the bundle object.
- **EXCEPTION_IF_IS_USED.** Returns a message when a bundle object is used and cancels the uninstallation.

**DELETE Response**

Returns the success response if the request is successful. Returns the error object if errors occur.

---

**connection**

Use this resource to request connection details for an organization. You can also use this resource to create, update, test, and delete a connection.

**Details GET Request**

You can request the following details using a connection GET request:

- Details of all connections in the organization.
- Details for a particular connection in the organization.
- List of objects that you can use as a source or target with a particular connection.
- List of connections of a specified type associated with a Secure Agent or runtime environment.
- Metadata details for a specified connection.

**Details of all connections in the organization**

To request the details of all connections in the organization, use the following URI:

```
/api/v2/connection
```

**Details of a particular connection**

To request the details of a particular connection, include the connection ID or name in the URI. Use one of the following URIs:

```
/api/v2/connection/<id>
/api/v2/connection/name/<name>
```

If you use the connection name in the URI and the connection name includes a space, replace the space with `%20`. For example:

```
/api/v2/connection/name/my%20connection
```

**List of objects that you can use as a source or target**

You can request the objects that you can use as a source or target. A maximum of 200 objects can be returned for one request. To request source or target objects, you can include either the connection ID or connection name in the URI. Use one of the following URIs:

```
/api/v2/connection/source/<id>
/api/v2/connection/target/<id>
/api/v2/connection/source/name/<name>
/api/v2/connection/target/name/<name>
```
If you use the connection name in the URI and the connection name includes a space, replace the space with %20. For example:

`/api/v2/connection/target/name/my%20connection`

If you expect to receive a large number of objects, you might want to filter the results. To filter the results, include the connection ID and the searchPattern parameter. To use the searchPattern parameter, use the following URI:

`/api/v2/connection/<source or target>/<id>?searchPattern=<pattern>`

For example, the following request returns source objects that include "abc" in the object name:

`/api/v2/connection/source/002D4200000000?searchPattern=abc`

**List of connections of a specified type associated with a Secure Agent or runtime environment**

To request a list of connections by Secure Agent ID and connection type, use the following URI:

`/api/v2/connection/search?agentId=<agentId>&uiType=<uiType>`

To request a list of connections by runtime environment ID and connection type, use the following URI:

`/api/v2/connection/search?runtimeEnvironmentId=<runtimeEnvironmentId>&uiType=<uiType>`

If you pass both agentId and runtimeEnvironmentId, the service uses runtimeEnvironmentId and ignores agentId. If you pass only agentId, the service translates agentId into its corresponding runtimeEnvironmentId before it saves the resource to the repository.

**Metadata details for a specified connection**

To request metadata details for a specified connection, use the following URI:

`/api/v2/connection/source/<connection ID>/metadata`

`/api/v2/connection/target/<connection ID>/metadata`

The metadata is returned in the runtimeAttribute object which contains the following attributes:

- name
- dataType
- defaultValue
- label
- mandatory
- maxLength
- sessionVarAllowed
- possibleValues

Use the following connection request URI attributes:

**agentId**

Secure Agent ID.

**runtimeEnvironmentId**

Runtime environment ID.

**uiType**

Connection type. Use one of the following options:

- CSVFile. CSV flat file.
- FTP.
Details GET Response

Returns the connection object for the requested connection ID. If you request information for all connections in the organization, returns a connection object for each connection in the organization.

If you request a list of connections based on the runtime environment ID and connection type, returns a connection object for each connection that matches the requirements.

If you request a list of source or target objects available for the requested connection ID, returns the connListItem object for each available object.

Returns the error object if errors occur.

The connection object includes different information based on connection type.

The following table describes attributes included in a connection object:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Description of the connection.</td>
</tr>
<tr>
<td>createTime</td>
<td>Time the connection was created.</td>
</tr>
<tr>
<td>updateTime</td>
<td>Last time the connection was updated.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>createdBy</td>
<td>User who created the connection.</td>
</tr>
<tr>
<td>updatedBy</td>
<td>User who last updated the connection.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent ID for Flat File, FTP/SFTP, Microsoft SQL Server, MS Access, MySQL, ODBC, Oracle, and Web Service connections.</td>
</tr>
<tr>
<td>runtimeEnvironmentId</td>
<td>Runtime environment used by the connection. This is the Runtime Environment field in the user interface. In the response returned to the user interface, this attribute is named agentGroupId.</td>
</tr>
<tr>
<td>instanceName</td>
<td>Microsoft SQL Server instance name.</td>
</tr>
<tr>
<td>host</td>
<td>Host name for FTP/SFTP, Microsoft SQL Server, MySQL, and Oracle connections.</td>
</tr>
<tr>
<td>domain</td>
<td>Domain name for Microsoft Dynamics CRM connections that use IFD or Active Directory authentication, and Web Service connections.</td>
</tr>
<tr>
<td>dateFormat</td>
<td>Date format for Flat File, FTP, and SFTP connections.</td>
</tr>
<tr>
<td>database</td>
<td>Returns the following information:</td>
</tr>
<tr>
<td></td>
<td>· For Microsoft SQL Server and MySQL connections, returns the database name.</td>
</tr>
<tr>
<td></td>
<td>· For Flat File connections, returns the directory.</td>
</tr>
<tr>
<td></td>
<td>· For FTP and SFTP connections, returns the local directory.</td>
</tr>
<tr>
<td></td>
<td>· For MS Access and ODBC connections, returns the data source name.</td>
</tr>
<tr>
<td></td>
<td>· For Oracle connections, returns the service name.</td>
</tr>
<tr>
<td></td>
<td>· For SAP IDoc Writer and Reader connections, returns the destination entry.</td>
</tr>
<tr>
<td></td>
<td>· For Web Service connections, returns the service URL.</td>
</tr>
<tr>
<td>codepage</td>
<td>Code page for Flat File, FTP, SFTP, Microsoft SQL Server, MySQL, MS Access, ODBC, Oracle, and SAP.</td>
</tr>
<tr>
<td>clientCode</td>
<td>Client code for SAP IDoc Writer connections.</td>
</tr>
<tr>
<td>authenticationType</td>
<td>Authentication type for Microsoft Dynamics CRM, Microsoft SQL Server, and Web Service connections.</td>
</tr>
<tr>
<td>adjustedJdbcHostName</td>
<td>Host name. Or host and instance name for Microsoft SQL Server connections.</td>
</tr>
<tr>
<td>accountNumber</td>
<td>Account ID for NetSuite connections.</td>
</tr>
<tr>
<td>languageCode</td>
<td>Language code for SAP IDoc Writer connections.</td>
</tr>
<tr>
<td>remoteDirectory</td>
<td>Remote directory for FTP/SFTP connections.</td>
</tr>
<tr>
<td>schema</td>
<td>Schema name for Microsoft SQL Server, ODBC, Oracle, and Web Service connections.</td>
</tr>
<tr>
<td>serviceUrl</td>
<td>Service URL for Microsoft Dynamics CRM, Oracle CRM On Demand, and Salesforce connections.</td>
</tr>
<tr>
<td>shortDescription</td>
<td>The first 50 letters of the description.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>type</td>
<td>Connection type returns one of the following responses:</td>
</tr>
<tr>
<td></td>
<td>CSVFile. CSV flat file.</td>
</tr>
<tr>
<td></td>
<td>FTP.</td>
</tr>
<tr>
<td></td>
<td>MS_ACCESS.</td>
</tr>
<tr>
<td></td>
<td>MSD. Microsoft Dynamics CRM.</td>
</tr>
<tr>
<td></td>
<td>MySQL.</td>
</tr>
<tr>
<td></td>
<td>ODBC.</td>
</tr>
<tr>
<td></td>
<td>Oracle.</td>
</tr>
<tr>
<td></td>
<td>OCOD. Oracle CRM On Demand.</td>
</tr>
<tr>
<td></td>
<td>Salesforce.</td>
</tr>
<tr>
<td></td>
<td>SFTP. Secure FTP.</td>
</tr>
<tr>
<td></td>
<td>SAP_ALE_IDoc_Reader. SAP iDoc Reader.</td>
</tr>
<tr>
<td></td>
<td>SAP_ALE_IDoc_Writer. SAP iDoc Writer.</td>
</tr>
<tr>
<td></td>
<td>TOOLKIT. Informatica Cloud Connector.</td>
</tr>
<tr>
<td></td>
<td>WebServicesConsumer. Web Service.</td>
</tr>
<tr>
<td>Note</td>
<td>The user interface field name on the Connections page varies depending on the connection. For example, for SQL Server, the user interface field name is SQL Server Version. Also note that for SQL Server, the REST API attribute that populates the value in the user interface is named subType.</td>
</tr>
<tr>
<td>port</td>
<td>Port number for FTP/SFTP, Microsoft SQL Server, MySQL, and Oracle connections.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the connection.</td>
</tr>
<tr>
<td>username</td>
<td>User name for the connection.</td>
</tr>
<tr>
<td>securityToken</td>
<td>Security token for a Salesforce connection.</td>
</tr>
<tr>
<td>stsUrl</td>
<td>Security token service URL for Microsoft Dynamics CRM connections that use Active Directory authentication.</td>
</tr>
<tr>
<td>organizationName</td>
<td>Organization name for Microsoft Dynamics CRM connections.</td>
</tr>
<tr>
<td>timeout</td>
<td>Timeout for Web Service connections.</td>
</tr>
<tr>
<td>trustCertificatesFile</td>
<td>Trust certificates file name for Web Service connections.</td>
</tr>
<tr>
<td>certificateFile</td>
<td>Certificates file name for Web Service connections.</td>
</tr>
<tr>
<td>certificateFilePassword</td>
<td>Certificates file password for Web Service connections.</td>
</tr>
<tr>
<td>certificateFileType</td>
<td>Certificates file type for Web Service connections.</td>
</tr>
<tr>
<td>privateKeyFile</td>
<td>Private key file name for Web Service connections.</td>
</tr>
<tr>
<td>privateKeyPassword</td>
<td>Private key password for Web Service connections.</td>
</tr>
<tr>
<td>privateKeyFileType</td>
<td>Private key file type for Web Service connections.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>connParams</td>
<td>Parameters used in the connection. Includes connection attributes in the connParam object for SAP, NetSuite, Oracle CRM On Demand, and Informatica Cloud Connector connections.</td>
</tr>
</tbody>
</table>
| connListItem | The connListItem object includes the following attributes:  
  id: Source or target ID.  
  name: Source or target name. |

**Test GET Request**

To test a connection, use the connection ID in the following URI:

```
/api/v2/connection/test/<id>
```

**Test GET Response**

Returns the success object if the test succeeds.

Returns the error object if errors occur.

**POST Request**

You can create or update connections. To update a connection, use the connection ID with the following URI. To create a connection, omit the optional connection ID.

```
/api/v2/connection/<id>
```

You can submit a partial update using partial mode. To submit a request using partial mode, use a JSON request and include the following line in the header:

```
Update-Mode=PARTIAL
```

In a connection POST request, use the additional attributes in the connection object. The attributes used by Informatica Cloud Connector connections vary by connection type.

To create or update an Informatica Cloud Connector connection, consult the Informatica Cloud application for the attributes used by the connection. Enclose any attributes that are not listed in the following tables in a connParam object.

To get a list of connectors that are available to the organization and attribute information for a specific connector type, see "connector" on page 74.

For more information about attributes and data types used for creating connections through the REST API, see "Connection User Interface Fields to REST API Attributes Mapping" on page 197 and "Connector Data Types" on page 196.

**POST Response**

If successful, returns the connection object for the connection that was created or updated.

Returns the error object if errors occur.

**DELETE Request**

To delete a connection, use the connection ID in the following URI.

```
/api/v2/connection/<id>
```
DELETE Response

Returns the 200 response code if the request is successful.
Returns the error object if errors occur.

POST Example

To update an SAP Table connection, you might use the following request, enclosing SAP attributes in the connParam object:

```
POST <serverUrl>/api/v2/user/connection/0002D4200000000J HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>

<connection>
  <id>0002D4200000000J</id>
  <orgId>00342000</orgId>
  <name>test_dir</name>
  <type>TOOLKIT</type>
  <agentId>00001Y08000000000002</agentId>
  <username>username</username>
  <password>password</password>
  <instanceName>SAPTableConnector</instanceName>
  <connParams>
    <agentId>00001Y08000000000002</agentId>
    <username>username</username>
    <password>password</password>
    <client>800</client>
    <language>EN</language>
    <Saprfc Ini Path>C:\Windows\SysWOW64\Saprfc Ini Path>
    <Destination>G/E</Destination>
  </connParams>
  <runtimeEnvironmentId>00000C2500000000002</runtimeEnvironmentId>
</connection>
```

A successful request returns the connection object that you updated.

CSV Flat File Connections

When you create or update a CSV flat file connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for CSV flat file connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use CSVFile.</td>
</tr>
<tr>
<td>database</td>
<td>Directory where flat files are stored. In the user interface, this attribute is the Directory field. In the REST API response that populates the value in the user interface, the name of this attribute is dirName.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>dateFormat</td>
<td>Date format for date fields in the flat file. Use one of the following formats:</td>
</tr>
<tr>
<td></td>
<td>- MM/dd/yyyy</td>
</tr>
<tr>
<td></td>
<td>- MM-dd-yyyy</td>
</tr>
<tr>
<td></td>
<td>- MM.dd.yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd/MM/yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd-MM-yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd.MM.yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd-MM-yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- dd.MM.yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-dd</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-dd HH:mm</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-dd HH:mm:ss</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>codepage</th>
<th>The code page of the system that hosts the flat file. Use one of the following options:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.</td>
</tr>
<tr>
<td></td>
<td>- IBM500. IBM EBCDIC International Latin-1.</td>
</tr>
</tbody>
</table>

**FTP and SFTP Connections**

When you create or update an FTP or SFTP connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for FTP or SFTP file connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use FTP or SFTP.</td>
</tr>
<tr>
<td>username</td>
<td>User name.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>password</td>
<td>Password.</td>
</tr>
<tr>
<td>host</td>
<td>Name of the machine hosting the database server or FTP/SFTP host. For a FTP/SFTP connection, enter the host name of IP address.</td>
</tr>
<tr>
<td>port</td>
<td>Network port number used to connect to FTP/SFTP connection. Default port is 21 for FTP and 22 for SFTP.</td>
</tr>
<tr>
<td>database</td>
<td>Directory on a local machine that stores the local file. In the user interface, this attribute is the Directory field. In the REST API response that populates the value in the user interface, the name of this attribute is dirName. The local machine must also run the Secure Agent used to run the corresponding task. Enter a local directory or use the Browse button to select a local directory.</td>
</tr>
<tr>
<td>remoteDirectory</td>
<td>Directory on the FTP/SFTP host that stores the remote flat file. Depending on the FTP/SFTP server, you may have limited options to enter directions. For more information, see the FTP/SFTP server documentation.</td>
</tr>
<tr>
<td>dateFormat</td>
<td>Date format for date fields in the flat file. Use one of the following formats:</td>
</tr>
<tr>
<td></td>
<td>- MM/dd/yyyy</td>
</tr>
<tr>
<td></td>
<td>- MM-dd-yyyy</td>
</tr>
<tr>
<td></td>
<td>- MM.dd/yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd/MM/yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd-MM-yyyy</td>
</tr>
<tr>
<td></td>
<td>- dd.MM/yyyy</td>
</tr>
<tr>
<td></td>
<td>- MM/dd/yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- MM-dd-yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- MM.dd/yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- dd/MM/yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- dd-MM-yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- dd.MM/yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- dd.MM.yyyy HH:mm</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-dd</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-dd HH:mm</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-dd HH:mm:ss</td>
</tr>
<tr>
<td></td>
<td>- yyyy-MM-ddTHH:mm:ss.SSSZ</td>
</tr>
<tr>
<td>codepage</td>
<td>The code page of the system that hosts the flat file. Use one of the following options:</td>
</tr>
<tr>
<td></td>
<td>- MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.</td>
</tr>
<tr>
<td></td>
<td>- IBM500. IBM EBCDIC International Latin-1.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent ID.</td>
</tr>
</tbody>
</table>
Microsoft Access Connections

When you create or update a Microsoft Access connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for Microsoft Access connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use MS_ACCESS.</td>
</tr>
<tr>
<td>database</td>
<td>Data source name. In the user interface, this is the Data Source Name field.</td>
</tr>
<tr>
<td>codepage</td>
<td>The code page compatible with the MS Access database. Use one of the following options:</td>
</tr>
<tr>
<td></td>
<td>- MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.</td>
</tr>
<tr>
<td></td>
<td>- IBM500. IBM EBCDIC International Latin-1.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent ID.</td>
</tr>
</tbody>
</table>

Microsoft Dynamics CRM Connections

When you create or update a Microsoft Dynamics CRM connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for Microsoft Dynamics CRM connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use MSD.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| authenticationType | Authentication type for the connection. Select a valid authentication type. Use one of the following authentication types:  
- LIVE. Microsoft Live. Use for data synchronization tasks or PowerCenter tasks.  
- IFD. Internet Facing Development (IFD). Use for data synchronization tasks or PowerCenter tasks.  
- AD. Active Directory. Use for PowerCenter tasks only. |
| username           | Microsoft Dynamics CRM user name.                                            |
| password           | Microsoft Dynamics CRM password.                                             |
| organizationName  | Microsoft Dynamics CRM organization name.                                    |
| domain             | Microsoft Dynamics CRM domain name. Required for IFD and Active Directory authentication. |
| serviceURL         | URL of the Microsoft Dynamics CRM service.  
For Microsoft Live authentication, use the following format:  
https://<orgname>.crm.dynamics.com  
For IFD authentication, use the following format:  
https://<server.company.com>:<port>  
For Active Directory, use the following format:  
http://<server.company.com>:<port> |
| agentId            | Secure Agent ID. Required for Active Directory authentication only.          |

### Microsoft SQL Server Connections

When you create or update a Microsoft SQL Server connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for Microsoft SQL Server connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
</tbody>
</table>
### SQL Server Connections

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>Connection type. Use one of the following codes:</td>
</tr>
<tr>
<td></td>
<td>In the user interface, this attribute is the SQL Server Version field. In the REST API response that populates the value in the user interface, the name of this attribute is subType.</td>
</tr>
<tr>
<td>authenticationType</td>
<td>Authentication method for the connection. Use one of the following options:</td>
</tr>
<tr>
<td></td>
<td>- SqlServer. Use Microsoft SQL Server authentication to access Microsoft SQL Server.</td>
</tr>
<tr>
<td>username</td>
<td>User name for the database login. Use when authenticationType is SqlServer.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the database login. Use when authenticationType is SqlServer.</td>
</tr>
<tr>
<td>host</td>
<td>Name of the machine hosting the database server.</td>
</tr>
<tr>
<td>port</td>
<td>Network port number used to connect to the database server. Default port number is 1433.</td>
</tr>
<tr>
<td>instanceName</td>
<td>Instance name of the Microsoft SQL Server database.</td>
</tr>
<tr>
<td>database</td>
<td>Database name for the Microsoft SQL Server target. Database name is case sensitive if the database is case sensitive. Maximum length is 100 characters. Database names can include alphanumeric and underscore characters.</td>
</tr>
<tr>
<td>schema</td>
<td>Schema used for the target connection.</td>
</tr>
<tr>
<td>codepage</td>
<td>The code page of the Microsoft SQL Server database. Use one of the following options:</td>
</tr>
<tr>
<td></td>
<td>- MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.</td>
</tr>
<tr>
<td></td>
<td>- IBM500. IBM EBCDIC International Latin-1.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent ID.</td>
</tr>
</tbody>
</table>

### MySQL Connections

When you create or update a MySQL connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for MySQL connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use MySQL.</td>
</tr>
<tr>
<td>username</td>
<td>User name for the database login.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the database login.</td>
</tr>
<tr>
<td>host</td>
<td>Name of the machine hosting the database server.</td>
</tr>
<tr>
<td>port</td>
<td>Network port number used to connect to the database server. Default is 3306.</td>
</tr>
<tr>
<td>database</td>
<td>Database name for the MySQL database target. Database name is case sensitive if the database is case sensitive.</td>
</tr>
</tbody>
</table>
| codepage  | The code page for the database server. Use one of the following options:  
  - UTF-8, Unicode Transformation Format, multibyte.  
  - MS1252, MS Windows Latin 1 (ANSI), superset of Latin 1.  
  - ISO-8859-3, Southeast European.  
  - ISO-8859-5, Cyrillic.  
  - ISO-8859-9, Latin 5, Turkish.  
  - IBM500, IBM EBCDIC International Latin-1. |
| agentId   | Secure Agent ID. |

### NetSuite Connections

When you create or update a NetSuite connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for NetSuite connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use NetSuite.</td>
</tr>
<tr>
<td>username</td>
<td>NetSuite user name.</td>
</tr>
<tr>
<td>password</td>
<td>NetSuite password.</td>
</tr>
</tbody>
</table>
### Attribute Description

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accountNumber</td>
<td>NetSuite account ID. To locate your account ID, log in to NetSuite and navigate to Setup &gt; Integration &gt; Web Services Preferences.</td>
</tr>
<tr>
<td>serviceURL</td>
<td>WSDL URL. If your NetSuite account does not use the default NetSuite WSDL URL, enter the WSDL URL used by your NetSuite account.</td>
</tr>
</tbody>
</table>

### ODBC Connections

When you create or update an ODBC connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for ODBC connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use ODBC.</td>
</tr>
<tr>
<td>username</td>
<td>User name for the database login.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the database login.</td>
</tr>
<tr>
<td>database</td>
<td>Data source name.</td>
</tr>
<tr>
<td>schema</td>
<td>Schema used for the target connection. Required to connect to an IBM DB2 database. Use uppercase letters when you specify the schema name for an Oracle database.</td>
</tr>
<tr>
<td>codepage</td>
<td>The code page of the database server or flat file defined in the connection. Use one of the following options:</td>
</tr>
<tr>
<td></td>
<td>- MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.</td>
</tr>
<tr>
<td></td>
<td>- IBM500. IBM EBCDIC International Latin-1.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent ID.</td>
</tr>
</tbody>
</table>
Oracle Connections

When you create or update an Oracle connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for Oracle connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use Oracle.</td>
</tr>
<tr>
<td>username</td>
<td>User name for the database login.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the database login.</td>
</tr>
<tr>
<td>host</td>
<td>Name of the machine hosting the database server.</td>
</tr>
<tr>
<td>port</td>
<td>Network port number used to connect to the database server. Default is 1521.</td>
</tr>
<tr>
<td>database</td>
<td>Service name that uniquely identifies the Oracle database. This attribute is the Service Name field in the user interface. If the connection fails, contact the database administrator.</td>
</tr>
<tr>
<td>schema</td>
<td>Schema used for the target connection. Optional.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent that Informatica Cloud uses to access the database in the local area network.</td>
</tr>
</tbody>
</table>
Oracle CRM On Demand Connections

When you create or update an Oracle CRM On Demand connection, you can configure additional attributes, such as the connection ID and the connection name.

The following tables describes attributes that you can use for Oracle CRM On Demand connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use OCOD.</td>
</tr>
<tr>
<td>username</td>
<td>Oracle CRM On Demand user name. Use the following format: &lt;domain&gt;/user name&gt; For example: domain/jsmith@companyname.com.</td>
</tr>
<tr>
<td>password</td>
<td>Oracle CRM On Demand password.</td>
</tr>
<tr>
<td>serviceUrl</td>
<td>URL of the Oracle CRM On Demand service. For example: <a href="https://securecompany.crmondemand.com">https://securecompany.crmondemand.com</a>.</td>
</tr>
</tbody>
</table>

Salesforce Connections

When you create or update a Salesforce connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for Salesforce connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use Salesforce.</td>
</tr>
<tr>
<td>username</td>
<td>User name for the Salesforce account. &lt;domain&gt;/username&gt; For example: domain/jsmith@companyname.com.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the Salesforce account.</td>
</tr>
</tbody>
</table>
SAP IDoc Reader Connections

When you create or update an SAP IDoc Reader connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for SAP IDoc Reader connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use SAP_ALE_IDoc_Reader.</td>
</tr>
<tr>
<td>username</td>
<td>SAP user name with authorization on S_DATASET, S_TABU_DIS, S_PROGRAM, and B_BTCH_JOB objects.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the SAP user name.</td>
</tr>
<tr>
<td>database</td>
<td>Type A DEST entry in the saprfc.ini file. This attribute is the Destination Entry field in the user interface.</td>
</tr>
<tr>
<td>codepage</td>
<td>The code page compatible with the SAP source. Use one of the following options:</td>
</tr>
<tr>
<td></td>
<td>- MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.</td>
</tr>
<tr>
<td></td>
<td>- IBM500. IBM EBCDIC International Latin-1.</td>
</tr>
<tr>
<td>agentId</td>
<td>Secure Agent ID.</td>
</tr>
</tbody>
</table>
SAP IDoc Writer Connections

When you create or update an SAP IDoc Writer connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for SAP IDoc Writer connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use SAP_ALE_IDoc_Writer.</td>
</tr>
<tr>
<td>username</td>
<td>SAP user name with authorization on S_DATASET, S_TABU_DIS, S_PROGRAM, and B_BTCH_JOB objects.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the SAP user name.</td>
</tr>
<tr>
<td>database</td>
<td>Type A DEST entry in the saprfc.ini file. This attribute is the Connection String field in the user interface.</td>
</tr>
<tr>
<td>languageCode</td>
<td>Language code that corresponds to the SAP language. A two-letter code, such as en for English.</td>
</tr>
</tbody>
</table>
| codepage  | The code page compatible with the SAP target. Use one of the following options:  
|           | · MS1252. MS Windows Latin 1 (ANSI), superset of Latin 1.  
|           | · IBM500. IBM EBCDIC International Latin-1. |
| agentId   | Secure Agent ID. |

Web Service Connections

When you create or update a Web Service connection, you can configure additional attributes, such as the connection ID and the connection name.

The following table describes attributes that you can use for Web Service connections:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Connection ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>name</td>
<td>Connection name.</td>
</tr>
<tr>
<td>description</td>
<td>Optional connection description.</td>
</tr>
<tr>
<td>type</td>
<td>Connection type. Use WebServicesConsumer.</td>
</tr>
<tr>
<td>username</td>
<td>SAP user name with authorization on S_DATASET, S_TABU_DIS, S_PROGRAM, and B_BTCH_JOB objects.</td>
</tr>
<tr>
<td>password</td>
<td>Password for the web service login. If the web service does not require a user name, leave this field empty. Optional.</td>
</tr>
<tr>
<td>domain</td>
<td>Domain for authentication. Optional.</td>
</tr>
<tr>
<td>serviceUrl</td>
<td>Endpoint URL for the web service that you want to access. The WSDL file specifies this URL in the location element. This attribute is the Endpoint URL field in the user interface. Optional.</td>
</tr>
<tr>
<td>timeout</td>
<td>Secure Agent ID. Number of seconds Informatica Cloud waits for a connection to the web service provider before it closes the connection and fails the session. Also, the number of seconds the Informatica Cloud waits for a SOAP response after sending a SOAP request before it fails the session. Default is 60. Optional.</td>
</tr>
<tr>
<td>trustCertificatesFile</td>
<td>File containing the bundle of trusted certificates that Informatica Cloud uses when authenticating the SSL certificate of the web services provider. Default is ca-bundle.crt. Optional.</td>
</tr>
<tr>
<td>certificateFile</td>
<td>Client certificate that a web service provider uses when authenticating a client. You specify the client certificate file if the web service provider needs to authenticate Informatica Cloud. Optional.</td>
</tr>
<tr>
<td>certificateFilePassword</td>
<td>Password for the client certificate. You specify the certificate file password if the web service provider needs to authenticate Informatica Cloud. Optional.</td>
</tr>
<tr>
<td>certificateFileType</td>
<td>File type of the client certificate. You specify the certificate file type if the web service provider needs to authenticate the Integration Service. Use one of the following codes: - PEM - DER Optional.</td>
</tr>
<tr>
<td>privateKeyFile</td>
<td>Private key file for the client certificate. You specify the private key file if the web service provider needs to authenticate Informatica Cloud. Optional.</td>
</tr>
<tr>
<td>privateKeyPassword</td>
<td>Password for the private key of the client certificate. You specify the key password if the web service provider needs to authenticate Informatica Cloud. Optional.</td>
</tr>
<tr>
<td>privateKeyFileType</td>
<td>File type of the private key of the client certificate. You specify the key file type if the web service provider needs to authenticate Informatica Cloud. If necessary, use PEM. Optional.</td>
</tr>
</tbody>
</table>
**connector**

Use this resource to request a list of connectors that are available to an organization along with connector details. You can also use this resource to get attribute information for a specific connector type. You can use the list of attributes that this resource provides when you create a connection for a specific connector type since you need to provide these attributes when you create a connection of a certain type.

**GET Request and Response for Available Connectors**

To request a list of connectors available for an organization, submit a GET request using the following URI:

```
/api/v2/connector
```

For example, you might use the following request:

```plaintext
GET <serverUrl>/api/v2/connector HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>
```

A successful response returns the following attributes in the connector object:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the connector.</td>
</tr>
</tbody>
</table>
| type      | Type of connector. Includes the following values:  
  - Salesforce  
  - Oracle  
  - SqlServer  
  - MySQL  
  - CSVFile  
  - ODBC  
  - MS_ACCESS  
  - FTP  
  - SAP  
  - WebServicesConsumer  
  - MSD |
<p>| publisher | Name of the entity that published the connector. |</p>
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorVersion</td>
<td>Connector version.</td>
</tr>
<tr>
<td>shortName</td>
<td>Connector short name.</td>
</tr>
<tr>
<td>isPublic</td>
<td>Whether the connector is a public or private connector. If you are interested in a connector that is private, contact Informatica Global Customer Support.</td>
</tr>
</tbody>
</table>

GET Request and Response for Connector Metadata

To get metadata for a specific connector type, submit a GET request using the following URI:

/api/v2/connector/metadata?connectorName=<connectorName>

For example, you might use the following request:

GET <serverUrl>/api/v2/connectorName=SQLServer HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>

A successful response returns the following attributes in the connectorMetadata object:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>Type of connector, such as Salesforce or Oracle.</td>
</tr>
<tr>
<td>isStandardConnType</td>
<td>Whether the connector is standard or custom. A &quot;True&quot; value indicates the connector is standard.</td>
</tr>
<tr>
<td>attributes</td>
<td>Connector attributes for the specified connector type. Includes the following attributes for each connector attribute:</td>
</tr>
<tr>
<td></td>
<td>- name. Name of the attribute, such as database or codePage.</td>
</tr>
<tr>
<td></td>
<td>- label.</td>
</tr>
<tr>
<td></td>
<td>- id.</td>
</tr>
<tr>
<td></td>
<td>- value. Value of the attribute.</td>
</tr>
<tr>
<td></td>
<td>- type. Data type. For values, see &quot;Connector Data Types&quot; on page 196.</td>
</tr>
<tr>
<td></td>
<td>- isMandatory. Whether the attribute is mandatory.</td>
</tr>
<tr>
<td></td>
<td>- visible.</td>
</tr>
<tr>
<td></td>
<td>- list. A list of types for the selected connector type. For example, SQL Server includes the types SqlServer2000, SqlServer2005, SqlServer2008, and so on.</td>
</tr>
</tbody>
</table>

customFunc

Use this resource to request the details of a mapplet or to request a list of all mapplets in the organization. You can also use this resource to upload a PowerCenter mapplet, and to delete a mapplet.

GET Request

To request a list of all mapplets in the organization, use the following URI:

/api/v2/customFunc
To request the details of a single mapplet, you can use the mapplet ID or mapplet name in the request. Use one of the following URIs:

/api/v2/customFunc/<id>
/api/v2/customFunc/name/<name>

If you use the mapplet name and the mapplet name includes a space, replace the space with %20. For example:

/api/v2/customFunc/name/my%20mapplet

GET Response

If the request for a list of mapplets is successful, returns the customFunc object for every mapplet in the organization without the input, output, and connection details.

If the request for the details of a single mapplet is successful, returns the customFunc object.

Returns the error object if errors occur.

The customFunc object includes the following attributes:

id
  Mapplet ID.

orgId
  Organization ID.

name
  Mapplet name.

description
  Mapplet description.

createTime
  Time the mapplet was created.

updateTime
  Time the mapplet was last updated.

createdBy
  User who created the mapplet.

updatedBy
  User who last updated the mapplet.

mappletName
  Name of the Mapplet transformation used in the mapplet.

active
  Whether the mapplet is active:
  • true. The mapplet is active.
  • false. The mapplet is passive.

mappletXmlFile
  The mapplet XML file.
inputs
Input fields for the mapplet. Includes the following information for each field in the field object:

- id
- name
- type
- label
- parentObject
- precision
- pcType
- scale
- columnIndex
- isKey
- isExternalId
- isNullable
- isUnique
- isCreateable
- isCalculated
- isUpdateable
- isFilterable
- linkedFields
- relatedInfos. Includes the following information in the fieldRelatedInfo object:
  - id
  - referenceObject
  - relationshipName
- javaType
- showLabel
- naturalOrder
- customProperties

outputs
Output fields for the mapplet. Includes the following information for each field in the field object:

- id
- name
- type
- label
- parentObject
- precision
- pcType
- scale
- columnIndex
- isKey
- isExternalId
- isNullable
- isUnique
- isCreateable
- isCalculated
- isUpdateable
- isFilterable
- linkedFields
- relatedInfos. Includes the following information in the fieldRelatedInfo object:
  - id
  - referenceObject
  - relationshipName

- javaType
- showLabel
- naturalOrder
- customProperties

connections

Connection information for the mapplet. Includes the following attributes in the pcsConnection object for each connection:

- id
- name
- type
- subtype
- description
- connectionId

POST Request

To update an existing mapplet, use the mapplet ID in the following URI. To upload a new PowerCenter mapplet, omit the optional ID parameter:

/api/v2/customFunc/<id>

Note: Encode the request body as multipart/form-data.

With this URI, you can use the following attributes in the request body:

file

Required.
The Mapplet XML file exported from Informatica PowerCenter. File content should be in binary format, UTF-8 encoding.

name

Required.
The Mapplet name.
**description**

Optional

The Mapplet description.

In addition to the POST attributes, pass the following information in the request body:

- Boundary value. Used to define different parts of the request body.
- File name. Name of the mapplet XML file.
- icSessionId. Informatica Cloud session ID returned by the login resource. You can pass this information in the request body for clients that do not allow custom headers. If you can pass icSessionId as part of the request header, you can omit this information in the request body.

Use the following template for the customFunc POST request:

```
URL: <serverUrl>/api/v2/customFunc/
HTTP method: POST
Content-Type: multipart/form-data; boundary=<boundary value>

--<boundary value>
Content-Disposition: form-data; name="file"; filename="<filename.XML>"; Content-Type: text/xml

<content of the mapplet XML file encoded as UTF-8>

--<boundary value>
Content-Disposition: form-data; name="name"

<mapplet name>
--<boundary value>
Content-Disposition: form-data; name="desc"

<description of the mapplet>

--<boundary value>
Content-Disposition: form-data; name="icSessionId"

<icSessionID returned from login resource>

--<boundary value>--
```

**POST Response**

If successful, returns the customFunc response object for the mapplet that was created or updated.

Returns the error object if errors occur.

**DELETE Request**

To delete a mapplet, use the mapplet ID in the following URI:

/api/v2/customFunc/<id>

**DELETE Response**

Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

**POST Example**

To update a mapplet with an ID of 3 with an icSessionId of IV4wOrJmd6YUtmmKa8t, you might use the following request. The updated mapplet is named Lookup Mapplet and uses the lookup_mapplet.xml file. XML data should be encoded in UTF-8.

```
URL: https://example.informatica.com/saas/api/v2/customFunc/3
HTTP method: POST

Content-Type: multipart/form-data; boundary=243553118520053

--243553118520053
```
A successful request returns the customFunc response object for the mapplet that you updated.
Use this resource to preview data during mapping design. The response returns up to ten rows of source or target data for the specified object.

GET Request

To request preview data, specify the connection ID or connection name and the object name in one of the following URIs:

- To request source data, use one of the following URIs:
  
  /api/v2/connection/source/<id>/datapreview/<objectName>
  
  /api/v2/connection/source/name/<name>/datapreview/<objectName>

- To request target data, use one of the following URIs:
  
  /api/v2/connection/target/<id>/datapreview/<objectName>
  
  /api/v2/connection/target/name/<name>/datapreview/<objectName>

If you use the connection name in the URI and the connection name includes a space, replace the space with %20. For example:

/api/v2/connection/target/name/my%20connection/dapreview/SF_ACCOUNT.csv

GET Response

Returns the dataPreview object for the requested connection ID or connection name and object name.

The dataPreview object includes the following attributes:

- **connId**
  
  Connection ID.

- **objectName**
  
  Name of the source or target object.

- **header**
  
  Column headers.

- **fieldName**
  
  Field name.

- **fieldBusinessName**
  
  Business field name.

- **data**
  
  Includes the following attribute in the dataPreviewEntry object:

  - **values**
    
    Field values from the source or target object.

GET Example

The following example shows a request to preview data from the SF_ACCOUNT.csv object.

```plaintext
GET <serverUrl>/api/v2/connection/target/0000010B00000000000003/datapreview/SF_ACCOUNT.csv
HTTP/1.0
Accept: application/json
icSessionId: <icSessionId>
```

The following text is a sample response:

```json
{
```
"@type": "dataPreview",
"connId": "0000010B00000000003",
"objectName": "SF_ACCOUNT.csv",
"header": [
"ID",
"ISDELETED",
"MASTERRECORDID",
"NAME",
"TYPE",
"PARENTID",
"BILLINGSTREET",
"BILLINGCITY",
"BILLINGSTATE",
"BILLINGPOSTALCODE",
"BILLINGCOUNTRY",
"BILLINGLATITUDE",
"BILLINGLONGITUDE",
"SHIPPINGSTREET",
"SHIPPINGCITY",
"SHIPPINGSTATE",
"SHIPPINGPOSTALCODE",
"SHIPPINGCOUNTRY",
"SHIPPINGLATITUDE",
"SHIPPINGLONGITUDE",
"PHONE",
"FAX",
"ACCOUNTNUMBER",
"WEBSITE"
],
"fieldName": [
"ID",
"ISDELETED",
"MASTERRECORDID",
"NAME",
"TYPE",
"PARENTID",
"BILLINGSTREET",
"BILLINGCITY",
"BILLINGSTATE",
"BILLINGPOSTALCODE",
"BILLINGCOUNTRY",
"BILLINGLATITUDE",
"BILLINGLONGITUDE",
"SHIPPINGSTREET",
"SHIPPINGCITY",
"SHIPPINGSTATE",
"SHIPPINGPOSTALCODE",
"SHIPPINGCOUNTRY",
"SHIPPINGLATITUDE",
"SHIPPINGLONGITUDE",
"PHONE",
"FAX",
"ACCOUNTNUMBER",
"WEBSITE"
],
"fieldBusinessName": [
"ID",
"ISDELETED",
"MASTERRECORDID",
"NAME",
"TYPE",
"PARENTID",
"BILLINGSTREET",
"BILLINGCITY",
"BILLINGSTATE",
"BILLINGPOSTALCODE",
"BILLINGCOUNTRY",
"BILLINGLATITUDE",
"BILLINGLONGITUDE",
"SHIPPINGSTREET",
"SHIPPINGCITY",
"SHIPPINGSTATE",
"SHIPPINGPOSTALCODE",
"SHIPPINGCOUNTRY",
"SHIPPINGLATITUDE",
"SHIPPINGLONGITUDE",
"PHONE",
"FAX",
"ACCOUNTNUMBER",
"WEBSITE"
"SHIPPINGSTREET",
"SHIPPINGCITY",
"SHIPPINGSTATE",
"SHIPPINGPOSTALCODE",
"SHIPPINGCOUNTRY",
"SHIPPINGLATITUDE",
"SHIPPINGLONGITUDE",
"PHONE",
"FAX",
"ACCOUNTNUMBER",
"WEBSITE"
],
"rows": [
{
"@type": "dataPreviewEntry",
"values": [
"001100000KIAQGAA5",
"0",
"",
"ABCPoint",
"Customer - Channel",
",
"345 ABC Park",
"Mountain View",
"CA",
"94063",
",
",
",
"345 ABC Park",
"Mountain View",
"CA",
"94063",
",
",
",
"(650) 555-3450",
"(650) 555-9895",
"CC978213",
"www.ABCpoint.com"
]
},
{
"@type": "dataPreviewEntry",
"values": [
"001100000KIAQGAA5",
"0",
"",
"123 United, UK",
"Customer - Direct",
",
"123 Estate, Gateshead, Tyne and Wear NE26 3HS\United Kingdom",
",
"UK",
"94063",
",
",
",
"123 Estate, Gateshead, Tyne and Wear NE26 3HS\United Kingdom",
",
",
",
"+44 123 4567899",
"+44 123 4567899",
"CD355119-A",
"http://www.123United.com"
]
expressionValidation

Use this resource to validate expressions.

**POST Request**

To validate an expression, use the following URI:

```
/saas/api/v2(expression/validate
```

Use the following attributes in the request body:

- **expr**
  
  The expression to validate.

- **connectionId**
  
  Connection ID.

- **objectName**
  
  Name of the source or target object.

- **isSourceType**
  
  Whether the expression is for a source object. Values are True or False.

If the expression is valid, the response returns a message that says the expression is valid. If the expression is not valid, the response returns an error.

**POST Example**

To validate an expression, you might use the following request:

```
POST <serverURL>/api/v2/expressions/validate HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "expressionValidation",
  "expr": "REPVERSION",
  "connectionId": "000001000000000004",
  "objectName": "OPB_RBPOST",
  "isSourceType": true
}
```
A field is a subset of a data structure that represents a single data item. For example, a database table column is a field. Use this resource to request field details for a source or target object and to update the flat file attributes for a source or target object.

**GET Request**

To request the field details of a source object, use the source connection ID or source connection name and the source object name. Use one of the following URIs:

```
/api/v2/connection/source/<id>/field/<object name>
/api/v2/connection/source/name/<name>/field/<object name>
```

If you use the connection name in the URI and the connection name includes a space, replace the space with %20. For example:

```
/api/v2/connection/source/name/my%20connection/field/customer
```

To request the field details of a target object, use the target connection ID or target connection name and the target object name. Use one of the following URIs:

```
/api/v2/connection/target/<id>/field/<object name>
/api/v2/connection/target/name/<name>/field/<object name>
```

If you use the connection name in the URI and the connection name includes a space, replace the space with %20. For example:

```
/api/v2/connection/target/name/my%20connection/field/customer
```

You can also use the following URI, which accommodates searching for an object that includes a forward slash (/):

```
/api/v2/connection/<source or target>/id/<id>/fields?objectName=<objectName>
```

**Note:** The object name is case-sensitive.

**GET Response**

Returns the field object for each field in the requested object.

Returns the error object if errors occur.

The field object includes different information based on the connection type. The following are the attributes of a field object:

- **id**
  
  Field ID.

- **name**
  
  Field name.

- **type**
  
  Field type.

- **uniqueName**
  
  Deprecated.

- **label**
  
  Field label.
parentObject
    Parent object, if applicable.
precision
    Length of the field in bytes.
pcType
    PowerCenter data type.
scale
    Number of digits after the decimal point for numeric values.
columnIndex
    Column index.
isKey
    Whether the field is used as a key.
isExternalId
    Whether the field is used as an external ID.
isSfIdLookup
    Whether the field is used as a Salesforce ID lookup field.
isNullable
    Whether the field can contain null values. Values are True or False.
isUnique
    Whether the field requires unique values. Values are True or False.
isCreateable
    Whether the field accepts new values. Values are True or False.
isCalculated
    Whether the field is calculated. Values are True or False.
isUpdateable
    Whether the field allows updates. Values are True or False.
isFilterable
    Whether the field can be filtered. Values are True or False.
linkedFields
    For a Data Masking task, the source field mapped to the input field of the mapplet.
relatedInfos
    Information about related fields. The following attributes are included in a fieldRelatedInfo object for each related field:
    id
        Field ID.
    referenceObject
        Object that includes the field.
**relationshipName**

Relationship to object.

**references**

Reference information. The following attributes are included in a fieldRelatedInfo object for each related field:

- **id**
  Field ID.

- **referenceObject**
  Object that includes the field.

- **relationshipName**
  Relationship to object.

- **javaType**
  Java data type.

- **showLabel**
  Whether to show the field label. Values are True or False.

- **naturalOrder**
  Position number of the field in the source.

- **customProperties**
  Custom properties for the field.

**GET Example**

To use XML to get the field details for the Customer object available through the source connection (ID: 0002D420000000J), you might use the following request:

```
GET <serverUrl>/api/v2/connection/source/0002D420000000J/field/Customer HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>
```

A successful request returns the fields object for each field in the Customer source object.

**POST Request**

To update the flat file attributes for a source or target object, use one of the following URI:

```
/api/v2/connection/source/<id>/field/<objectName>
/api/v2/connection/target/<id>/field/<objectName>
```

The flat file attributes provided in the request override the default attributes specified in the connection object.

You can use the following attributes in the flatFileAttrs object:

- **id**
  Field ID.

- **delimiter**
  Character used to separate fields.

- **textQualifier**
  Quote character that defines the boundaries of text strings.
escapeChar

Character immediately preceding a field delimiter character embedded in an unquoted string, or immediately preceding the quote character in a quoted string.

headerLineNo

Number of header lines

firstDataRow

The row number where the data begins in the file.

POST Request Example

To send a request for field information, you might use the following request:

```
POST <serverUrl>/api/v2/connection/source/0000010B000000000021/field/test_precision.csv
HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId
{
  "@type": "flatFileAttrs",
  "delimiter": ",",
  "textQualifier": ":",
  "escapeChar": "\\"
}
```

POST Response

If successful, returns the connListItem object. Returns the error object if errors occur.

fileRecord

Use this resource to upload an integration template XML file or image file to your organization. You can also use this resource to delete an integration template XML file or image file from the organization.

POST Request

To upload an integration template XML file or image file, use the following URI.

```
/api/v2/fileRecord
```

You can upload a file up to 5 MB in size.

**Note:** Encode the request body as multipart/form-data.

Use the following attributes in the request body.

**file**

Required.

Content of the file that you want to upload. File content should be in binary format, UTF-8 encoding.

**type**

Required.

Type of file that you want to upload. Use one of the following values:

- MAPPING. Use to upload an integration template XML file. Use for XML files only.
Returns the fileRecord object if the upload is successful. Returns the error object if errors occur.

In addition to the POST attributes, pass the following information in the request body:

- **id**
- **createdBy**
- **updateTime**
- **createTime**
- **name**
- **orgId**
- **icSessionId.** Informatica Cloud session ID returned by the login resource. You can pass this information in the request body for clients that do not allow custom headers. If you can pass icSessionId as part of the request header, you can omit this information in the request body.

File name. The file name of the content you want to upload.

**ID for the uploaded file.** You can use this ID to identify the file when you create or update an integration template with the masterTemplate resource.

**Organization ID.**

File name.

Description of the file.

Time the file was uploaded to the organization.

Last time the file was updated.

User who first uploaded the file.

Use the following template for the fileRecord POST request:

```
URL: <serverUrl>/api/v2/fileRecord/
HTTP method: POST
Content-Type: multipart/form-data;boundary=<boundary value>
--<boundary value>
Content-Disposition: form-data; name="file";filename="<filename.ext>";Content-Type: text/xml
<content of the file you want to upload encoded as UTF-8>
--<boundary value>
Content-Disposition: form-data; name="type"
<MAPPING | IMAGE>
--<boundary value>
Content-Disposition: form-data; name="icSessionId"
<icSessionID returned from login resource>
--<boundary value>--
```

**POST Response**

Returns the fileRecord object if the upload is successful. Returns the error object if errors occur.

The fileRecord object includes the following attributes:

**id**

ID for the uploaded file. You can use this ID to identify the file when you create or update an integration template with the masterTemplate resource.

**orgId**

Organization ID.

**name**

File name.

**description**

Description of the file.

**createTime**

Time the file was uploaded to the organization.

**updateTime**

Last time the file was updated.

**createdBy**

User who first uploaded the file.
To delete a file, use the file ID in the following URI:

/api/v2/fileRecord/<id>

**DELETE Request**

You can delete an integration template XML or image file if the integration template is not used by an integration template.

To delete a file, use the file ID in the following URI:

/api/v2/fileRecord/<id>

**DELETE Response**

Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

**POST Example**

To upload the IntegrationTemplate.xml file with an icSessionId of IV4wOrJmd6YUtma8t, you might use the following request. XML data should be encoded in UTF-8.

URL: https://example.informatica.com/saas/api/v2/fileRecord/
HTTP method: POST

```xml
<xml version="1.0" encoding="utf-8">
  <!DOCTYPE Graph SYSTEM "graph.dtd">
  <Graph Name="" Description="" UItype="" DlgSize="">
    <Groups>
      <Parameters>
        <Parameter Name="EXTERNALID_GS" Label="" LabelWidth="" IsMandatory="True" DefaultValue="" Control="" Data="" Description="" />
        <Parameter Name="STGST" Label="" LabelWidth="" IsMandatory="True" DefaultValue="" Control=""Combo_Ctrl" Data="" Targets" Description="" />
        <Parameter Name="$GroupBy$" Label="" LabelWidth="" IsMandatory="True"
DefaultValue="" Control=""Combo_Ctrl" Data="" Description="" />
        <Parameter Name="$so_PERCENT_FLD_C9" Label="" LabelWidth="" IsMandatory="True"
DefaultValue="" Control=""Combo_Ctrl" Data="" Description="" />
        <Parameter Name="$SRC5" Label="" LabelWidth="" IsMandatory="True"
DefaultValue="" Control=""Combo_Ctrl" Data="" Sources" Description=""/>
      </Parameters>
    </Groups>
  </Graph>
</xml>
```

User who last updated the file.

**type**

File type.

**size**

File size.

**attachTime**

Time the file was associated with an integration template.
fwConfig

Use the fwConfig resource to configure column widths for flat file source, lookup, and target objects.

GET Request

To request all of the fixed-width formats, use the following URI:

/api/v2/fwConfig

To request the details of a particular fixed-width format, you can include the fixed-width format ID or fixed-width format name in the URI. Use one of the following URIs:

/api/v2/fwConfig/<id>
/api/v2/fwConfig/name/<name>

If you use the fixed-width format name in the URI and the fixed-width format name includes a space, replace the space with %20. For example:

/api/v2/fwConfig/name/my%20fixedwidth%20format

GET Response

The fwConfig object returns the following attributes:

id

- Fixed-width format ID.

name

- Fixed-width format name.

description

- Description of the fixed-width format.

createTime

- Time that the fixed-width format was created.

If the upload is successful, returns the fileRecord response object.
**updateTime**
Last time that the fixed-width format was updated.

**createdBy**
User who created the fixed-width format.

**updatedBy**
User who updated the fixed-width format.

**lineSequential**
Whether each row ends with a newline character.
- True. Line sequential is enabled.
- False. Line sequential is not enabled.

**padBytes**
Number of bytes between the last column of one row and the first column of the next.

**skipRows**
Number of rows to skip. You can skip blank or header rows.

**nullChar**
The character to represent a null value.

**dateFormat**
Default date format to use when a date format is not specified in the flat file connection.

**nullCharType**
Determines if the null character is single-byte or multibyte.

**repeatNullChar**
Determines how to treat null characters in a single field.
- True. Read repeat null characters as a single null value.
- False. does not read repeat null characters as a single null value.

**stripTrailingBlank**
Determines how to treat trailing blanks in string values.
- True. Removes trailing blanks from string values.
- False. Does not remove trailing blanks in string values.

**Columns**
Includes the following attributes for each column:
- name. Name of the column.
- nativeType. Native data type.
- precision. Length of the field in bytes.
- scale. Number of digits after the decimal point for numeric values.
GET Example

The following example shows a request to get details for a fixed-width format using the fixed-width format ID:

```
GET <serverUrl>/api/v2/fwConfig/00001R2900000000002 HTTP/1.0
Accept:application/json
icSessionId: <icSessionId>
```

The following text is a sample response:

```
{
   "@type": "fwConfig",
   "id": "00001R29000000000002",
   "orgId": "00001R",
   "name": "item",
   "description": "",
   "createTime": "2016-10-06T17:08:09.000Z",
   "updateTime": "2016-10-06T17:08:09.000Z",
   "createdBy": "org1@infa.com",
   "updatedBy": "org1@infa.com",
   "lineSequential": true,
   "padBytes": 0,
   "skipRows": 0,
   "nullChar": "*",
   "nullCharType": "ASCII",
   "repeatNullChar": false,
   "stripTrailingBlank": false,
   "dateFormat": "",
   "columns": [
      {
         "@type": "fwColumn",
         "name": "COLUMN_0",
         "nativeType": "string",
         "precision": 1,
         "physicalLength": 0,
         "scale": 0
      },
      {
         "@type": "fwColumn",
         "name": "COLUMN_1",
         "nativeType": "string",
         "precision": 9,
         "physicalLength": 0,
         "scale": 0
      },
      {
         "@type": "fwColumn",
         "name": "COLUMN_2",
         "nativeType": "string",
         "precision": 10,
         "physicalLength": 0,
         "scale": 0
      }
   ]
}
```

POST Request

To update a fixed-width format, use the fixed-width format ID in the following URI. To create a fixed-width format, omit the optional ID.

```
/api/v2/fwConfig/<id>
```

You can submit a partial update using partial mode. If you want to update a field in the fwColumn object using partial mode, you must include the name. To submit a request using partial mode, use a JSON request and include the following line in the header:

```
Update-Mode=PARTIAL
```

You can use the following attributes in a fwConfig POST request:
id
 Fixed-width format ID.

name
 Fixed-width format name.

description
 Description of the fixed-width format.

createTime
 Time that the fixed-width format was created.

updateTime
 Last time that the fixed-width format was updated.

createdBy
 User who created the fixed-width format.

updatedBy
 User who updated the fixed-width format.

lineSequential
 Determines whether to end each row with a newline character.
• True. Line sequential is enabled.
• False. Line sequential is not enabled.

padBytes
 Number of bytes between the last column of one row and the first column of the next.

skipRows
 Number of rows to skip. You can skip blank or header rows.

nullChar
 The character to represent a null value.

nullCharType
 Whether the null character is single-byte or multibyte.

repeatNullChar
 Whether repeat null characters in a single field read as a single null value.
• True. Repeat null characters read as a single null value.
• False. Repeat null characters do not read as a single null value.

stripTrailingBlank
 Whether trailing blanks are removed from string values.
• True. Trailing blanks are removed from string values.
• False. Trailing blanks remain in string values.

Columns
 Include the following attributes for each column in the fwColumn object:
• name. Name of the column. Key field for the fwColumn collection.
- nativeType. Native data type.
- precision. Length of the field in bytes.
- scale. Number of digits after the decimal point for numeric values.

**POST Response**

If successful, returns the fwConfig object that you created or updated. Returns the error object if errors occur.

**POST Example**

```plaintext
POST <serverURL>/api/v2/fwConfig/00000103000000000004 HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "fwConfig",
  "name": "FW_FILE_CONFIG_1",
  "description": "Test description",
  "lineSequential": false,
  "padBytes": 1,
  "skipRows": 2,
  "nullChar": ".",
  "nullCharType": "ASCII",
  "repeatNullChar": false,
  "stripTrailingBlank": false,
  "columns": [
    {
      "@type": "fwColumn",
      "name": "ASCII",
      "nativeType": "string",
      "precision": 10
    }
  ]
}
```

**DELETE Request**

To delete a fixed-width format, use the fixed-width format ID in the following URI:

/api/v2/fwConfig/<id>

**DELETE Response**

Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

---

**job**

Use this resource to start or stop an Informatica Cloud task or task flow based on ID or name. You can also retrieve job completion status. Use the task resource to retrieve the ID and name of a task or task flow.

**Start POST Request**

To start a task or task flow, use the following URI:

/api/v2/job

With this URI, use the following attributes in a job object:

- **taskId**
  
  Task or task flow ID. Use taskId or taskName in the URI.
**taskName**

Task or task flow name. Use taskId or taskName in the URI.

**taskType**

Type of task or task flow. Use one of the following options:

- AVS. Contact Validation task.
- DMASK. Data masking task.
- DQA. Data assessment task.
- DRS. Data replication task.
- DSS. Data synchronization task.
- MTT. Mapping configuration task.
- PCS. PowerCenter task.
- Workflow. Task flow.
- DNB_WORKFLOW. D&B360 workflow.

**callbackURL**

A valid, publicly available URL. The service posts the job status to the callbackURL.

**Start POST Response**

Returns the job object if the request is successful. Returns an error object if errors occur.

The job object includes the following attributes:

**taskId**

Task or task flow ID.

**taskName**

Task or task flow name.

**taskType**

Type of task or task flow. Returns one of the following codes:

- AVS. Contact Validation task.
- DMASK. Data masking task.
- DQA. Data assessment task.
- DRS. Data replication task.
- DSS. Data synchronization task.
- MTT. Mapping configuration task.
- PCS. PowerCenter task.
- Workflow. Task flow.
- DNB_WORKFLOW. D&B360 workflow.

**runId**

ID of the job.

**callbackURL**

Status of the job.
Stop POST Request

To stop a task or task flow, use the following URI:

/api/v2/job/stop

With this URI, use the following attributes in a job object:

taskId

Task or task flow ID. Use taskId or taskName in the URI.

taskName

Task or task flow name. Use taskId or taskName in the URI.

taskType

Type of task or task flow. Use one of the following options:

- AVS. Contact Validation task.
- DMASK. Data masking task.
- DQA. Data assessment task.
- DRS. Data replication task.
- DSS. Data synchronization task.
- MTT. Mapping configuration task.
- PCS. PowerCenter task.
- Workflow. Task flow.
- DNB_WORKFLOW. D&B360 workflow.

Stop POST Response

Returns the success object if the request is successful. Returns the error object if errors occur.

Stop POST Example

To stop a task flow with an ID of 0034J90000000M in JSON, you might use the following request:

```json
POST <serverUrl>/api/v2/job/stop HTTP/1.0
Content-Type: application/json
Accept: application/json
icSessionId: <icSessionId>

{
  "@type": "job",
  "taskId": "0034J90000000M",
  "taskType": "Workflow"
}
```

Job Status Example

When you include the callbackURL in the job request, the service sends a request to the callback URL when the job completes. The service always uses a JSON request for callbacks.

A callback might be called multiple times because of a system failure or incorrect server response. When the service sends a request to the callback URL, the endpoint on your server must return a 200 HTTP code within 30 seconds. Otherwise, the URL connection breaks and the service counts the break as a failed attempt. The server will make a total of three attempts.

The service executes the POST request from the callback URL. The following text is a sample return:

```json
{
  @type:"callbackUrlResponse",
  endTime: "2013-02-27T18:57:52.000Z",
}
```
licenseInfo

Use this resource to get license information about organizations and assign licenses to sub-organizations. In order to assign licenses to a sub-organization, you must log in to the parent organization as an administrator.

GET Request

To request license information for an organization or sub-organization, use the organization ID in the following URI:

```
/api/v2/licenseInfo/org/<id>
```

GET Response

If successful, returns the license information for the specified organization ID in the orgLicenseInfo object. The orgLicenseInfo object includes the following attributes:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>orgEdition</td>
<td>The Informatica Cloud edition. Includes the following attributes:</td>
</tr>
<tr>
<td></td>
<td>- name</td>
</tr>
<tr>
<td></td>
<td>- expirationDate</td>
</tr>
<tr>
<td></td>
<td>- clearCustomLicenses</td>
</tr>
<tr>
<td></td>
<td>- extendCustomLicenses</td>
</tr>
</tbody>
</table>

...
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>licensesInfo</td>
<td>License information for the specified organization. Includes the following attributes:</td>
</tr>
<tr>
<td></td>
<td>- licenses. Includes the following attributes in the license object:</td>
</tr>
<tr>
<td></td>
<td>- licenseName</td>
</tr>
<tr>
<td></td>
<td>- licenseType. Indicates whether the licence is trial, subscription, or free subscription.</td>
</tr>
<tr>
<td></td>
<td>- licenseCategory. The category of the license item, either service or feature.</td>
</tr>
<tr>
<td></td>
<td>- disabled. A value of &quot;true&quot; indicates that the license is disabled.</td>
</tr>
<tr>
<td></td>
<td>- childLicenses</td>
</tr>
<tr>
<td></td>
<td>- licenseParams</td>
</tr>
<tr>
<td></td>
<td>- expirationDate</td>
</tr>
<tr>
<td></td>
<td>- maxTotalJobs</td>
</tr>
<tr>
<td></td>
<td>- maxMonthlyJobs</td>
</tr>
<tr>
<td></td>
<td>- maxDailyJobs</td>
</tr>
<tr>
<td></td>
<td>- maxTotalRows</td>
</tr>
<tr>
<td></td>
<td>- maxMonthlyRows</td>
</tr>
<tr>
<td></td>
<td>- maxDailyRows</td>
</tr>
<tr>
<td></td>
<td>- connectorLicenses. Includes the following attributes:</td>
</tr>
<tr>
<td></td>
<td>- uuid. Unique identifier for the connector.</td>
</tr>
<tr>
<td></td>
<td>- connectorName</td>
</tr>
<tr>
<td></td>
<td>- licenseType. Indicates whether the connector license type is trial or subscription.</td>
</tr>
<tr>
<td></td>
<td>- expirationDate</td>
</tr>
<tr>
<td></td>
<td>- packageLicenses. Licensed connector packages. Includes the following attributes in the packageLicense object for each package:</td>
</tr>
<tr>
<td></td>
<td>- packageName</td>
</tr>
<tr>
<td></td>
<td>- disabled. A value of “true” indicates that the package is disabled.</td>
</tr>
<tr>
<td></td>
<td>- bundleLicenses. Returns a bundleObjectLicense object for each bundle license. See &quot;bundleObjectLicense&quot; on page 53.</td>
</tr>
<tr>
<td></td>
<td>- serviceUsage. For service licenses, includes the following attributes:</td>
</tr>
<tr>
<td></td>
<td>- serviceName</td>
</tr>
<tr>
<td></td>
<td>- totalJobs</td>
</tr>
<tr>
<td></td>
<td>- monthlyJobs</td>
</tr>
<tr>
<td></td>
<td>- dailyJobs</td>
</tr>
<tr>
<td></td>
<td>- totalRows</td>
</tr>
<tr>
<td></td>
<td>- monthlyRows</td>
</tr>
<tr>
<td></td>
<td>- dailyRows</td>
</tr>
</tbody>
</table>

### GET Example

To request license information for an organization, you might use the following request:

```
GET <serverURL>/api/v2/licenseInfo/org/00001R HTTP/1.0
Content-Type: application/json
Accept: application/json
```

The following text is a sample response:

```json
{
    "@type": "orgLicenseInfo",
    "orgId": "00001R",
    "orgEdition": {
        "name": "Default ICS Edition",
        "expirationDate": "2018-11-23",
        "overwriteCustomLicenses": true
    }
}
```

### POST Request

To assign licenses to a sub-organization, use the organization ID in the following URI:

```
/api/v2/licenseInfo/org/<id>
```

Submit the orgLicenseInfo object that includes license changes for the sub-organization.
POST Response
If successful, returns the orgLicenseInfo object for the sub-organization.

POST Example
To assign a license, you might use the following request:

```plaintext
POST <serverURL>/api/v2/licenseInfo/org/<organizationId> HTTP/1.0
Content-Type: application/json
Accept: application/json
{
  "@type": "orgLicenseInfo",
  "licenseInfo": {
    "@type": "licenseInfo",
    "licenses": [
      {
        "@type": "license",
        "licenseName": "PCS",
        "licenseCategory": "SERVICE",
        "licenseType": "TRIAL",
        "expirationDate": "2018-11-23",
        "maxTotalJobs": 0,
        "maxMonthlyJobs": 250,
        "maxDailyJobs": 24,
        "maxTotalRows": 0,
        "maxMonthlyRows": 300000,
        "maxDailyRows": 10000,
        "childLicenses": [],
        "licenseParams": []
      }
    ]
  }
}
```

login

Use this resource to log in to an Informatica Cloud organization with Informatica Cloud or Salesforce credentials. Returns a two hour REST API session ID that you can use for subsequent REST API requests. After the session ID expires, log in again to continue working with the REST API. Use the logout resource to end the session. For SAML single sign-on, use the loginSaml resource.

For information on retrieving session status details, see "Session IDs" on page 17.

POST Request
You can log in to an organization with your Informatica Cloud user name and password. Or, you can log in with a Salesforce session ID and Salesforce server URL.

To log in with your Informatica Cloud user name and password, use the following URL:

https://app.informaticaondemand.com/ma/api/v2/user/login

With this URL, use the following attributes in a login object:

**username**

Required.
Informatica Cloud user name.
password
    Required.
    Informatica Cloud password.

To log in using a Salesforce session ID and Salesforce server URL, use the following URL:
    https://app.informaticaondemand.com/ma/api/v2/user/loginSf

You can use Salesforce information to log in to Informatica Cloud if you have included your Salesforce user
name in your Informatica Cloud user account.

You can use the Salesforce Web Services API to generate a Salesforce session ID and to retrieve the
Salesforce server URL. For more information, see the login resource in the Salesforce Web Services API
Developer's Guide.

With this URL, use the following attributes in a login object:
    sfSessionId
        Required.
        Salesforce session ID. For information about generating the Salesforce session ID, see the login
        resource in the Salesforce Web Services API Developer's Guide.
    sfServerUrl
        Required.
        Salesforce server URL. You can retrieve the Salesforce server URL from the Salesforce Web Services API
        login resource response.

POST Response
Returns the user object if the request is successful. Returns the error object if errors occur.

The user object includes the following attributes:
    id
        User ID.
    orgId
        ID of the organization the user belongs to.
    name
        Informatica Cloud user name.
    description
        Description of the user.
    createTime
        When the user account was created.
    updateTime
        When the user account was last updated.
    createdBy
        Informatica Cloud user who created the user account.
    updatedBy
        Informatica Cloud user who last updated the user account.
sfUsername
Salesforce user name.

password
Password. If using sfUsername, this is the Salesforce password.

firstName
First name for the user account.

lastName
Last name for the user account.

title
Title of the user.

phone
Phone number for the user.

securityQuestion
Security question. Returns one of the following codes:
- SPOUSE_MEETING_CITY
- FIRST_JOB_CITY
- CHILDHOOD_FRIEND
- MOTHER_MAIDEN_NAME
- PET_NAME
- CHILDHOOD_NICKNAME
- CUSTOM_QUESTION: "<question>"

securityAnswer
Answer to the security question.

roles
Roles assigned to the user. The following attributes are included in a role object for each role:

name
Role name. Returns one of the following codes:
- SERVICE_CONSUMER
- DESIGNER
- ADMIN

description
Description.

usergroups
User group assigned to the user. The following attributes are included in a usergroup object for each user group:

id
User group ID.
orgId
Organization ID.

name
User group name.

description
Description.

createTime
Time the user group was created.

updateTime
Last time the user group was updated.

createdBy
User who created the user group.

updatedBy
User who last updated the user group.

aclEntry
Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the "usergroup" on page 177 resource.

emails
Email address to be notified when the user changes the account password.
If you pass multiple email addresses in this field, Informatica Cloud uses the first email address in the list.

timezone
Time zone of the user. Time zone honors Daylight Saving Time.
For more information, see Appendix A, "Time Zone Codes" on page 193.

serverUrl
Informatica Cloud URL for the organization the user belongs to. Use the serverUrl as a base for most REST API resource URIs.

spiUrl
Informatica Cloud Application Integration URL for the organization the user belongs to.

uuld
Unique identifier for the user.

icSessionId
Informatica Cloud REST API session ID. Use in most REST API request headers.

forceChangePassword
Determines if the user must reset the password after the user logs in for the first time. Includes the following values:

- True. The user must reset the password.
False. The user is not forced to reset the password.

POST Example
To log in to your Informatica Cloud organization using Informatica Cloud credentials, you might use the following request:

```plaintext
POST https://app.informaticaondemand.com/ma/api/v2/user/login HTTP/1.0
Content-Type: application/json
Accept: application/json

[  
  "@type": "login",  
  "username": "useremail@company.com",  
  "password": "mypassword"
]
```

If successful, returns the user object.

**logout**

Use this resource to log out of an organization and end the REST API session specified in the request.

**POST Request**
To log out an organization and end the REST API session, include the Informatica Cloud session ID in the request header with the following URI.

/api/v2/user/logout

**POST Response**
Returns the 200 response code if the request is successful.
Returns the error object if errors occur.

**POST Example**
To log out of your Informatica Cloud organization using Informatica Cloud credentials, you might use the following request:

```plaintext
POST <serverURL>/api/v2/user/logout HTTP/1.0
Content-Type: application/json
Accept: application/json
icSessionId: <icSessionId>
```

**logoutall**

Use this resource to log out of an organization and end all REST API sessions for the organization.

**POST Request**
To log out of an organization and end all REST API sessions for the organization, use the following URL:

https://app.informaticaondemand.com/ma/api/v2/user/logoutall

With this URL, use the following attributes in a **logout** object:
username
Informatica Cloud user name.

password
Informatica Cloud password.

POST Response
Returns the success object if the request is successful.
Returns the error object if errors occur.

POST Example
To log out of an organization and all REST API sessions, you might use the following request:

```
POST https://app.informaticaondemand.com/ma/api/v2/user/logoutall HTTP/1.0
Content-Type: application/json
Accept: application/json
{
  "@type": "logout",
  "username": "useremail@company.com",
  "password": "mypassword"
}
```

loginSaml

Use this resource to log in to an Informatica Cloud organization using SAML single sign-on and to log out of a SAML single sign-on session. Log in request returns a two hour REST API session ID that you can use for subsequent REST API requests. After the session ID expires, log in again to continue working with the REST API. Use the logout resource to end the session.

For information on retrieving session status details, see "Session IDs" on page 17.

POST Request
You can log in to an organization using SAML single sign-on credentials.

Use the following URL:

https://app.informaticaondemand.com/ma/api/v2/user/loginSaml

With this URL, use the following attributes in a loginSaml object:

**samlToken**
- Required.
- SAML login token.

**orgId**
- Required.
- Informatica Cloud organization ID.

POST Response
Returns the user object if the request is successful. Returns the error object if errors occur.

The user object includes the following attributes:
id
User ID.

orgId
ID of the organization the user belongs to.

name
Informatica Cloud user name.

description
Description of the user.

createTime
When the user account was last updated.

updateTime
When the user account was last updated.

createdBy
Informatica Cloud user who created the user account.

updatedBy
Informatica Cloud user who last updated the user account.

firstName
First name for the user account.

lastName
Last name for the user account.

title
Title of the user.

phone
Phone number for the user.

roles
Roles assigned to the user. The following attributes are included in a role object for each role:

description
Name. Returns one of the following codes:

- SERVICE_CONSUMER
- DESIGNER
- ADMIN

description
Description.

usergroups
User group assigned to the user. The following attributes are included in a usergroup object for each user group:

description
User group ID.
orgId
   Organization ID.

name
   User group name.

description
   Description.

createTime
   When the user group was last updated.

updateTime
   When the user group was last updated.

createdBy
   Informatica Cloud user who created the user group.

updatedBy
   Informatica Cloud user who last updated the user group.

aclEntry
   Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the usergroup resource.

e-mails
   Email addresses to be notified when the user changes the account password.

timezone
   Time zone of the user. Time zone honors Daylight Saving Time.
   For more information, see Appendix A, Time Zone Codes.

type
   Connection type returns one of the following responses:
   • CSVFile (CSV flat file)
   • FTP
   • MS_ACCESS
   • MSD (Microsoft Dynamics CRM)
   • MySQL
   • ODBC
   • Oracle
   • OCOD (Oracle CRM On Demand)
   • Salesforce
   • SFTP (Secure FTP)
   • SAP_ALE_IDoc_Reader (SAP IDoc Reader)
   • SAP_ALE_IDoc_Writer (SAP IDoc Writer)
   • SqlServer (Microsoft SQL Server 2000)
   • SqlServer2005 (Microsoft SQL Server 2005)
• SqlServer2008 (Microsoft SQL Server 2008)
• SqlServer2012 (Microsoft SQL Server 2012)
• TOOLKIT (Informatica Cloud Connector)
• WebServicesConsumer (Web Service)

serverUrl
Informatica Cloud URL for the organization the user belongs to. Use the serverUrl as a base for most REST API resource URIs.

spiUrl
Informatica Cloud Application Integration URL for the organization the user belongs to.

uuid
Unique identifier for the user.

icSessionId
Informatica Cloud REST API session ID. Use in most REST API request headers.

POST Example
To log in to your Informatica Cloud organization using SAML single sign-on, you might use the following request:

```plaintext
POST https://app.informaticaondemand.com/ma/api/v2/user/loginSaml HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "login",
  "samlToken": "<token>",
  "orgId": "00342000"
}
```

If successful, returns the user object.

mapping

Use this resource to request the details for a mapping or the details of all mappings in the organization.

GET Request
You can request the following information using a mapping GET request:

• Details of all mappings in the organization.
• Details for a particular mapping.
• An image of a mapping.

Details of all mappings in the organization
To request the details of all mappings in the organization, use the following URI:

```
/api/v2/mapping
```
Details for a particular mapping

To request the details of a particular mapping, include the mapping ID or mapping name in the URI. Use one of the following URIs:

/api/v2/mapping/<id>
/api/v2/mapping/name/<name>

If you use the mapping name in the URI and the mapping name value includes a space, replace the space with %20. For example:

/api/v2/mapping/name/my%20mapping

You can also request a specific mapping by name with the following URI:

/api/v2/mapping/search?name=<name>

Image of a mapping

To request an image of a mapping, specify the mapping ID and whether the mapping is deployed or not. Use the following URI:

/api/v2/mapping/<id>/image?deployed=<true|false>

For example:

/api/v2/mapping/109/image?deployed=true

GET Response

If successful, returns the mapping object for the requested mapping.

If you request the details for all mappings, returns the mapping object for every mapping in the organization without parameter details.

Returns the error object if errors occur.

The mapping object includes the following attributes:

id
Mapping ID.
orgId
Organization ID.
name
Mapping name.
description
Description of the mapping.
createTime
Time the mapping was created.
updateTime
Last time the mapping was updated.
createdBy
User who created the mapping.
updatedBy
User who last updated the mapping.
bundleObjectId
   ID of the bundle that includes the mapping, if applicable.

bundleVersion
   Version of the bundle that includes the mapping, if applicable.

templateId
   ID of the template created internally to represent the mapping.

deployTime
   Time the mapping was deployed.

hasParameters
   Indicates if the mapping includes parameters. Returns the following values:
   - TRUE. The mapping includes parameters.
   - FALSE. The mapping does not include parameters.

valid
   Indicates if the mapping is valid. Returns the following values:
   - TRUE. The mapping is valid.
   - FALSE. The mapping is not valid.

fixedConnection
   Indicates if the mapping has fixed connections. Returns the following values:
   - TRUE. The mapping includes fixed connections.
   - FALSE. The mapping does not include fixed connections.

hasParametersDeployed
   Indicates if the mapping has parameters deployed. Returns the following values:
   - TRUE. The mapping has parameters deployed.
   - FALSE. The mapping does not have parameters deployed.

fixedConnectionDeployed
   Indicates if the mapping has fixed connections deployed. Returns the following values:
   - TRUE. The mapping has fixed connections deployed.
   - FALSE. The mapping does not have fixed connections deployed.

deployedTemplateId
   ID of the template created internally to represent the deployed mapping.

tasks
   Number of tasks that use the mapping.

parameters
   Parameters used in the mapping.
   Includes the following attributes in the mtTaskParameter object for each parameter:

id
   Parameter ID.
name
Parameter name.

label
Parameter label.

type
Parameter type.

description
Parameter description.

customFuncId
Mapplet ID for mapplet type parameters.

uiProperties
Display property for the parameter. Includes the following information:
- cnxtype. Connection type for the parameter.
- logcnx. Logical connection.
- order. Display order.
- wizstep. Wizard step to display the parameter.
- default. Default value.
- visible. Whether the parameter is visible.
- editable. Whether the parameter is editable.
- required. Whether the parameter is required.
- paramtype. UI control type for string parameters. Returns one of the following responses:
  - Condition. Filter condition input control.
  - Expression. Expression editor input control.
  - Field. Field selection input control.
  - Fieldmap. Field mapping input control. Includes the following attributes:
    - lefttitle. Left title for the field mapping display.
    - righttitle. Right title for the field mapping display.
    - leftfs. Set of fields to display in the left table of the field mapping display.
    - rightfs. Set of fields to display in the right table of the field mapping display.
    - leftfilter. Regular expression to limit the fields that display in the left table of the field mapping display.
    - rightfilter. Regular expression to limit the fields that display in the right table of the field mapping display.
    - staticlist. List of fields to display on the right side of the field mapping display.

inOutParameters
In-out parameters used in the mapping.
Includes the following attributes in the mtTaskInOutParameter object for each in-out parameter:
- id
- name
• description
• initialValue
• datatype
• precision
• scale
• retentionPolicy
• aggregationType
• currentValue

**mappingPreviewFileRecordId**
ID of the image file that is used when previewing a mapping.

**deployedMappingPreviewFileRecordId**
ID of the image file that is used when previewing a deployed mapping.

**references**
Reference information. Returns the reference object, which includes the following attributes:
• refObjectId
• refType

**GET Example**
To request mapping details for all mappings in the organization, you might use the following request:

```
GET <serverUrl>/api/v2/mapping HTTP/1.0
Accept: application/xml
icSessionId: <icSessionId>
```

**masterTemplate**

Use this resource to request the details for an integration template or the details of all integration templates in the organization. You can create or update an integration template, and request a list of mapping configuration tasks that use the template. You can also delete an integration template.

**GET Request**
To request the details of all integration templates in the organization, use the following URI:

```
/api/v2/masterTemplate
```

To request the details of a particular integration template, include the integration template ID or integration template name in the URI. Use one of the following URIs:

```
/api/v2/masterTemplate/<id>
/api/v2/masterTemplate/name/<name>
```

If you use the integration template name in the URI and the integration template name includes a space, replace the space with %20. For example:

```
/api/v2/masterTemplate/name/my%20integration%20template
```
To request a list of mapping configuration tasks that use an integration template, use the integration template ID in the following URI:

/api/v2/masterTemplate/<id>/tasks

**GET Response**

If successful, returns the masterTemplate object for the requested integration template. If you request the details for all integration templates, returns the masterTemplate object without parameter details for every integration template in the organization.

Returns the error object if errors occur.

The masterTemplate object includes the following attributes:

- **id**
  Integration template ID.

- **orgId**
  Organization ID.

- **name**
  Integration template name.

- **description**
  Description of the integration template.

- **createTime**
  Time the integration template was created.

- **updateTime**
  Last time the integration template was updated.

- **createdBy**
  User who created the integration template.

- **updatedBy**
  User who last updated the integration template.

- **diFileRecordId**
  ID of the integration template XML file.

- **templateImageId**
  ID of the integration template image file.

- **parameters**
  Parameters used in the integration template. The following attributes are included in the mtParameter object for each parameter:

  - **id**
    Parameter ID.

  - **name**
    Parameter name.

  - **label**
    Parameter label.
**type**

Parameter type.

**description**

Parameter description.

**customFuncId**

Mapplet ID for mapplet type parameters.

**uiProperties**

Display property for the parameter. Includes the following information:

- **cnxtype**. Connection type for the parameter.
- **logcnx**. Logical connection.
- **order**. Display order.
- **wizstep**. Wizard step to display the parameter.
- **default**. Default value.
- **visible**. Whether the parameter is visible.
- **editable**. Whether the parameter is editable.
- **required**. Whether the parameter is required.
- **paramtype**. UI control type for string parameters. Returns one of the following responses:
  - **Condition**. Filter condition input control.
  - **Expression**. Expression editor input control.
  - **Field**. Field selection input control.
  - **Fieldmap**. Field mapping input control. Includes the following attributes:
    - **lefttitle**. Left title for the field mapping display.
    - **righttitle**. Right title for the field mapping display.
    - **leftfs**. Set of fields to display in the left table of the field mapping display.
    - **rightfs**. Set of fields to display in the right table of the field mapping display.
    - **leftfilter**. Regular expression to limit the fields that display in the left table of the field mapping display.
    - **rightfilter**. Regular expression to limit the fields that display in the right table of the field mapping display.
    - **staticlist**. List of fields to display on the right side of the field mapping display.

**sessionAttrs**

General and performance session properties for the task. Can include the following attributes:

**Write Backward Compatible Session Log File**

Writes the session log to a file.

**Session Log File Name**

Name for the session log.

**Session Log File Directory**

Directory where the session log is saved.
$Source Connection Value
Source connection name.

$Target Connection Value
Target connection name.

Treat Source Rows as
When the Mapping Configuration task reads source data, it marks each row with an indicator to specify the operation to perform when the row reaches the target:

- Insert. All rows are marked for insert into the target.
- Update. All rows are marked for update in the target.
- Delete. All rows are marked for delete from the target.
- Data Driven. The task uses the Update Strategy object in the data flow to mark the operation for each source row.

Commit Type
Commit type to use:

- Source. Performs commits based on the number of source rows.
- Target. Performs commits based on the number of target rows.
- User Defined. Performs commits based on the commit logic defined in the integration template.

If you do not configure a commit type, the task performs a target commit.

Commit Interval
Interval in rows between commits.

If you do not configure a commit interval, the task commits every 10,000 rows.

Commit on End of File
Commits data at the end of the file:

- true.
- false.

Rollback Transactions on Errors
If the task encounters a non-fatal error, you can choose to roll back the transaction at the next commit point.

When the task encounters a transformation error, it rolls back the transaction if the error occurs after the effective transaction generator for the target.

Java Classpath
Java classpath to use.

DTM Buffer Size
Amount of memory allocated to the task from the DTM process.

Incremental Aggregation
Performs incremental aggregation.

- true.
- false.
**Reinitialize Aggregate Cache**
Overwrites existing aggregate files for an incremental aggregation task.
- true.
- false.

**Enable High Precision**
Processes the Decimal datatype to a precision of 28.
- true.
- false.

**Session Retry on Deadlock**
The Mapping Configuration task retries a write on the target when a deadlock occurs.
- true.
- false.

**wizardMetadata**
Metadata for the Mapping Configuration task wizard steps. Includes an mtWizardStep object for each step.

- **name**
  Name of the step.

- **title**
  The title of the step, displayed in the Mapping Configuration task wizard user interface.

**POST Request**
To update an integration template, use the integration template ID in the following URI. To create a new integration template, omit the optional integration template ID.

/api/v2/masterTemplate/<id>

You can submit a partial update using partial mode. If you want to update a field in the mtParameter object using partial mode, you must include the name or type fields. To submit a request using partial mode, use a JSON request and include the following line in the header:

```
Update-Mode=PARTIAL
```

You can use the following attributes in a **masterTemplate** object:

- **name**
  Required.
  Name of the integration template.

- **description**
  Optional.
  Description of the integration template.

- **diFileRecordId**
  Required.
  Integration template XML file ID.
  Use the ID returned when you upload the file to the organization with the fileRecord resource.
**templateImageId**
Optional.
Integration template image file ID.
This ID is returned when you upload the file to the organization with the fileRecord resource.

**parameters**
Object that defines parameters associated with the template.
Use an mtParameter object to define the following attributes for each parameter:

**name**
Required. Key field for the mtParameter collection.
Parameter name.

**label**
Optional.
Parameter label.

**type**
Required. Key field for the mtParameter collection.
Parameter type. Use one of the following values:
- STRING
- SOURCE
- TARGET
- MAPPLET
- LOOKUP

**description**
Optional.
Parameter description.

**customFuncId**
Optional.
Mapplet ID for mapplet type parameters.

**uiProperties**
Optional.
Display properties for the parameter.
Use a UPROPERTY object to define the following display properties:
- cnxtype. Connection type for the parameter. Use a valid connection type. For more information, see the connection resource.
- logcnx. Logical connection.
- order. Display order.
- wizstep. Wizard step to display parameter.
- default. Default value.
• visible. Whether the parameter is visible. Use True or False.
• editable. Whether the parameter is editable. Use True or False.
• required. Whether the parameter is required. Use True or False.
• paramtype. UI control type for string parameters. Use one of the following values:
  - Condition. Filter condition control.
  - Expression. Expression editor control.
  - Field. Field selection control.
  - Fieldmap. Field mapping input control. Includes the following attributes:
    - lefttitle. Left title for the field mapping display.
    - righttitle. Right title for the field mapping display.
    - leftfs. Set of fields to display in the left table of the field mapping display.
    - rightfs. Set of fields to display in the right table of the field mapping display.
    - leftfilter. Regular expression to limit the fields that display in the left table of the field mapping display.
    - rightfilter. Regular expression to limit the fields that display in the right table of the field mapping display.
    - staticlist. List of fields to display on the right side of the field mapping display. Use instead of rightfs.
      List field names and associated datatypes separated by a line break or semicolon.

sessionAttr

Optional.

Object that defines the general and performance session properties for the task.

Use a SessionAttrType object to define any of the following properties that you want to use:

**Write Backward Compatible Session Log File**

Optional.

Writes the session log to a file.

• true.
• false.

**Session Log File Name**

Optional.

Name for the session log.

Use any valid file name. You can use the following variables as part of the session log name:

• $CurrentTaskName. Replaced with the task name.
• $CurrentTime. Replaced with the current time.

**Session Log File Directory**

Optional.

Directory where the session log is saved.

By default, the session log is saved to the following directory: .
$Source Connection Value
Optional.
Source connection name.

$Target Connection Value
Optional.
Target connection name.

Treat Source Rows as
Optional.
When the Mapping Configuration task reads source data, it marks each row with an indicator to specify the operation to perform when the row reaches the target.

Use one of the following values:

- Insert. All rows are marked for insert into the target.
- Update. All rows are marked for update in the target.
- Delete. All rows are marked for delete from the target.
- Data Driven. The task uses the Update Strategy object in the data flow to mark the operation for each source row.

Commit Type
Optional.
Commit type to use. Use one of the following values:

- Source. Performs commits based on the number of source rows.
- Target. Performs commits based on the number of target rows.
- User Defined. Performs commits based on the commit logic defined in the integration template.

If you do not configure a commit type, the task performs a target commit.

Commit Interval
Optional.
Interval in rows between commits.

If you do not configure a commit interval, the task commits every 10,000 rows.

Commit on End of File
Optional.
Commits data at the end of the file.

- true.
- false.

Rollback Transactions on Errors
Optional.
If the task encounters a non-fatal error, you can choose to roll back the transaction at the next commit point.
When the task encounters a transformation error, it rolls back the transaction if the error occurs after the effective transaction generator for the target.

- true.
- false.

**Java Classpath**

Optional.

Java classpath to use.

The Java Classpath that you enter is added to the beginning of the system classpath when the task runs.

Use this option if you use third-party Java packages, built-in Java packages, or custom Java packages in a Java transformation.

**DTM Buffer Size**

Optional.

Amount of memory allocated to the task from the DTM process.

By default, a minimum of 12 MB is allocated to the buffer at run time.

You can specify auto or a numeric value. If you enter 2000, the Mapping Configuration task interprets the number as 2000 bytes. Append KB, MB, or GB to the value to specify other units.

Increase the DTM buffer size in the following circumstances:

- A task contains large amounts of character data.
  Increase the DTM buffer size to 24 MB.
- A session contains n partitions. Increase the DTM buffer size to at least n times the value for the task with one partition.
- A source contains a large binary object with a precision larger than the allocated DTM buffer size.
  Increase the DTM buffer size so that the task does not fail.

**Incremental Aggregation**

Optional.

Performs incremental aggregation.

- true.
- false.

**Reinitialize Aggregate Cache**

Optional.

Overwrites existing aggregate files for an incremental aggregation task.

- true.
- false.

**Enable High Precision**

Optional.
Processes the Decimal datatype to a precision of 28.

- true.
- false.

Session Retry on Deadlock

Optional.

The Mapping Configuration task retries a write on the target when a deadlock occurs.

- true.
- false.

wizardMetadata

Metadata for the Mapping Configuration task wizard steps. Includes an mtWizardStep object for each step.

- name
  Name of the step.
- title
  The title of the step, displayed in the Mapping Configuration task wizard user interface.

POST Response

If the request to create or update an integration template is successful, returns the master template object for the integration template that you created or updated.

Returns the error code if errors occur.

DELETE Request

To delete an integration template, use the integration template ID in the following URI:

/api/v2/masterTemplate/<id>

DELETE Response

Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

GET Example

To request a list of tasks that use an integration template with an ID of 000043T1000003G, you might use the following request:

GET <serverUrl>/api/v2/masterTemplate/000043T1000003G/tasks HTTP/1.0
Accept: application/xml
icSessionId: <icSessionId>

If successful, returns the mtTask object with id, orgId, name, and masterTemplateId for each task that uses the integration template.
mttask

Use this resource to request the details of a Mapping Configuration task. You can also create, update, or delete a Mapping Configuration task.

**Note:** You cannot use the REST API to create a Mapping Configuration task based on a mapping that includes a mapplet.

**GET Request**

To request the details of a Mapping Configuration task, you can use the task ID or task name. Use one of the following URIs:

- `/api/v2/mttask/<id>`
- `/api/v2/mttask/name/<name>`

If you use the task name in the URI and the task name includes a space, replace the space with `%20`. For example:

- `/api/v2/mttask/name/task%20name`

**GET Response**

Returns the mtTask object for the requested task ID or task name.

Returns the error object if errors occurred.

The following table describes attributes in an mtTask object:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Task ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>Task name.</td>
</tr>
<tr>
<td>description</td>
<td>Description.</td>
</tr>
<tr>
<td>createTime</td>
<td>Time the task was created.</td>
</tr>
<tr>
<td>updateTime</td>
<td>Last time the task was updated.</td>
</tr>
<tr>
<td>createdBy</td>
<td>User who created the task.</td>
</tr>
<tr>
<td>updatedBy</td>
<td>User who last updated the task.</td>
</tr>
<tr>
<td>errorTaskEmail</td>
<td>Optional. Includes the following attributes in the taskEmail object:</td>
</tr>
<tr>
<td></td>
<td><strong>id</strong></td>
</tr>
<tr>
<td></td>
<td>ID.</td>
</tr>
<tr>
<td></td>
<td><strong>emails</strong></td>
</tr>
<tr>
<td></td>
<td>List of comma-separated email addresses that receive email notification when a task fails to complete.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>successTaskEmail</td>
<td>Optional. Includes the following attributes in the taskEmail object: id: ID.</td>
</tr>
<tr>
<td></td>
<td>emails: List of comma-separated email addresses that receive email notification when a task completes successfully.</td>
</tr>
<tr>
<td>warningTaskEmail</td>
<td>Optional. Includes the following attributes in the taskEmail object: id: ID.</td>
</tr>
<tr>
<td></td>
<td>emails: List of comma-separated email addresses that receive email notification when a task completes with errors.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>parameters</td>
<td>Parameters associated with the task. Includes the following attributes in the mtTaskParameter object for each parameter:</td>
</tr>
<tr>
<td>id</td>
<td>Parameter ID.</td>
</tr>
<tr>
<td>name</td>
<td>Parameter name.</td>
</tr>
<tr>
<td>type</td>
<td>Parameter type.</td>
</tr>
<tr>
<td>indx</td>
<td>Sort index. Not used.</td>
</tr>
<tr>
<td>text</td>
<td>Parameter value.</td>
</tr>
<tr>
<td>label</td>
<td>Parameter label.</td>
</tr>
<tr>
<td>description</td>
<td>Parameter description.</td>
</tr>
<tr>
<td>sourceConnectionId</td>
<td>Source connection ID.</td>
</tr>
<tr>
<td>targetConnectionId</td>
<td>Target connection ID.</td>
</tr>
<tr>
<td>lookupConnectionId</td>
<td>Lookup connection ID.</td>
</tr>
<tr>
<td>transfConnectionId</td>
<td>Connection ID of mapplet. Reserved for future use.</td>
</tr>
<tr>
<td>midstreamConnectionId</td>
<td>Connection ID of midstream transformation.</td>
</tr>
<tr>
<td>sourceObject</td>
<td>Source object name.</td>
</tr>
<tr>
<td>sourceObjectLabel</td>
<td>Source object label.</td>
</tr>
<tr>
<td>targetObject</td>
<td>Target object name.</td>
</tr>
<tr>
<td>targetObjectLabel</td>
<td>Target object label.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>lookupObject</td>
<td>Lookup object name.</td>
</tr>
<tr>
<td>lookupObjectLabel</td>
<td>Lookup object label.</td>
</tr>
<tr>
<td>midstreamObject</td>
<td>Midstream object name.</td>
</tr>
<tr>
<td>midstreamObjectLabel</td>
<td>Midstream object label.</td>
</tr>
<tr>
<td>newFlatFile</td>
<td>Deprecated. Use newObject instead. Whether the application creates a new flat file target. Returns True when it creates a target.</td>
</tr>
<tr>
<td>flatFileName</td>
<td>Deprecated. Use newObjectName instead. Name of the flat file target.</td>
</tr>
<tr>
<td>newObject</td>
<td>Whether the application creates a new flat file target. Returns True when it creates a target.</td>
</tr>
<tr>
<td>newObjectName</td>
<td>Name of the flat file target.</td>
</tr>
<tr>
<td>operationType</td>
<td>The task operation for the target.</td>
</tr>
<tr>
<td>truncateTarget</td>
<td>Whether the application truncates a database target before writing to it. Returns True when it truncates the target.</td>
</tr>
<tr>
<td>srcFFAttrs</td>
<td>Object for the source file attributes. Includes the following attributes:</td>
</tr>
<tr>
<td></td>
<td>- id.</td>
</tr>
<tr>
<td></td>
<td>- delimiter.</td>
</tr>
<tr>
<td></td>
<td>- textQualifier.</td>
</tr>
<tr>
<td></td>
<td>- escapeChar.</td>
</tr>
<tr>
<td></td>
<td>- headerLineNo.</td>
</tr>
<tr>
<td></td>
<td>- firstDataRow.</td>
</tr>
<tr>
<td>tgtFFAttrs</td>
<td>Object for the target file attributes. Includes the following attributes:</td>
</tr>
<tr>
<td></td>
<td>- id.</td>
</tr>
<tr>
<td></td>
<td>- delimiter.</td>
</tr>
<tr>
<td></td>
<td>- textQualifier.</td>
</tr>
<tr>
<td></td>
<td>- escapeChar.</td>
</tr>
<tr>
<td></td>
<td>- headerLineNo.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| lkpFFAttrs        | Object for the target file attributes. Includes the following attributes:  
|                   | - id.  
|                   | - delimiter.  
|                   | - textQualifier.  
|                   | - escapeChar.  
|                   | - headerLineNo.  
|                   | - firstDataRow.  
| customFuncCfg     | Attribute that defines configuration for mapplets used in the task. Includes the following attributes in the customFuncConfig object for each mapplet:  
|                   | - id. Mapplet ID.  
|                   | - connections. Object to define connections used in a mapplet. Includes the following attributes in the pcsConnection object for each connection:  
|                   | - id.  
|                   | - name. Connection name.  
|                   | - type. Connection type.  
|                   | - subtype. Connection subtype.  
|                   | - description  
|                   | - connectionId. Connection ID.  
| showBusinessNames | Whether the task displays business names. Returns True when it shows business names.  
| naturalOrder      | The order that the task uses to display fields. Returns True for the order returned by the connection. Returns False for alphabetic order.  
| isRESTModernSource| Always set to True to enable extended objects.  
| customQuery       | The custom query specified in Mapping Designer or Mapping Configuration task query options.  
| overriddenFields  | Changes to field metadata in the Mapping Configuration task. Includes the following attributes in the mtTaskOverriddenField object:  
|                   | - name  
|                   | - type  
|                   | - precision  
|                   | - scale  
| tgtFieldRefs      | Optional.  
|                   | Salesforce field reference IDs.  
| extendedObject    | The source or target with more than one object joined.  

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>targetUpdateColumns</strong></td>
<td>List of column names used to update records in the target object.</td>
</tr>
<tr>
<td><strong>runtimeAttrs</strong></td>
<td>Optional.</td>
</tr>
<tr>
<td></td>
<td>Advanced connection properties for connections used in a task.</td>
</tr>
<tr>
<td></td>
<td>Use a runtimeAttrs object to define key-value pairs of advanced connection properties. Use an entry object for each key-value pair.</td>
</tr>
<tr>
<td></td>
<td>For the attribute name, use the advanced connection property name as displayed in the Informatica Cloud application.</td>
</tr>
<tr>
<td></td>
<td>For more information about advanced connection properties, see the <a href="#">Informatica Cloud Help</a>.</td>
</tr>
<tr>
<td><strong>sequences</strong></td>
<td>Defines values for the Sequence Generator transformation. Includes the following attributes in the sequenceDefinition object:</td>
</tr>
<tr>
<td></td>
<td>- txName. Name of the Sequence Generator transformation.</td>
</tr>
<tr>
<td></td>
<td>- initialValue. The initial value of the sequence.</td>
</tr>
<tr>
<td></td>
<td>- currentValue. The value used for the last row added to the transformation.</td>
</tr>
<tr>
<td><strong>inOutParameters</strong></td>
<td>In-out parameter used in the task. Includes the following attributes in the mtTaskInOutParameter object for each in-out parameter:</td>
</tr>
<tr>
<td></td>
<td>- id</td>
</tr>
<tr>
<td></td>
<td>- name</td>
</tr>
<tr>
<td></td>
<td>- description</td>
</tr>
<tr>
<td></td>
<td>- initialValue</td>
</tr>
<tr>
<td></td>
<td>- datatype</td>
</tr>
<tr>
<td></td>
<td>- scale</td>
</tr>
<tr>
<td></td>
<td>- retentionPolicy</td>
</tr>
<tr>
<td></td>
<td>- aggregationType</td>
</tr>
<tr>
<td></td>
<td>- currentValue</td>
</tr>
<tr>
<td><strong>agentId</strong></td>
<td>Agent that runs the task.</td>
</tr>
<tr>
<td><strong>lastRunTime</strong></td>
<td>Time the task last run.</td>
</tr>
<tr>
<td><strong>masterTemplateId</strong></td>
<td>Integration template ID. Returned when an integration template is the basis of the task.</td>
</tr>
<tr>
<td><strong>mappingId</strong></td>
<td>Mapping ID. Returned when a mapping is the basis for the task.</td>
</tr>
<tr>
<td><strong>scheduleId</strong></td>
<td>Schedule associated with the task flow, if any.</td>
</tr>
<tr>
<td><strong>shortDescription</strong></td>
<td>The first 50 characters of the description.</td>
</tr>
<tr>
<td><strong>sessionProperties</strong></td>
<td>Advanced session properties associated with the task.</td>
</tr>
<tr>
<td></td>
<td>Includes advanced session properties in a sessionProperties object</td>
</tr>
<tr>
<td><strong>outboundMessageUrlToken</strong></td>
<td>Outbound message URL token for the task, if it exists.</td>
</tr>
<tr>
<td><strong>outboundMessageUrlQueueTime</strong></td>
<td>Outbound message URL queue time for the task, if it exists.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>runtimeEnvironmentId</td>
<td>Runtime environment used for the task.</td>
</tr>
<tr>
<td>preProcessingCmd</td>
<td>Command to run before the task.</td>
</tr>
<tr>
<td>postProcessingCmd</td>
<td>Command to run after the task completes.</td>
</tr>
<tr>
<td>parameterFileName</td>
<td>The name of the parameter file used in the task.</td>
</tr>
</tbody>
</table>

**POST Request**

To update a Mapping Configuration task, use a Mapping Configuration task ID in the following URI. To create a Mapping Configuration task, omit the optional task ID.

```
/api/v2/mttask/<id>
```

You can submit a partial update using partial mode. If you want to update a field that is within a collection using partial mode, you must include the key field for the collection. The following table lists the collections in the mttask resource and the corresponding key fields:

<table>
<thead>
<tr>
<th>Collection</th>
<th>Key Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>mtTaskInOutParameter</td>
<td>name</td>
</tr>
<tr>
<td>sequenceDefinition</td>
<td>txName</td>
</tr>
<tr>
<td>mtTaskOverriddenField</td>
<td>name</td>
</tr>
<tr>
<td>mtTaskParameter</td>
<td>name, type</td>
</tr>
</tbody>
</table>

To submit a request using partial mode, use a JSON request and include the following line in the header:

```
Update-Mode=PARTIAL
```
The following table describes the attributes you can use with the URI in an mtTask object:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
</table>
| errorTaskEmail    | Optional. Includes the following attributes in the taskEmail object:  
|                   |  
| id                | ID.  
| emails            | List of comma-separated email addresses that receive email notification when a task fails to complete.                                     |
| successTaskEmail  | Optional. Includes the following attributes in the taskEmail object:  
|                   |  
| id                | ID.  
| emails            | List of comma-separated email addresses that receive email notification when a task completes successfully.                                 |
| warningTaskEmail  | Optional. Includes the following attributes in the taskEmail object:  
|                   |  
| id                | ID.  
<p>| emails            | List of comma-separated email addresses that receive email notification when a task completes with errors.                                 |</p>
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>parameters</td>
<td>Attribute that defines parameters associated with the task. Use an mtTaskParameter object to define the following attributes for each parameter:</td>
</tr>
<tr>
<td></td>
<td>id</td>
</tr>
<tr>
<td></td>
<td>name</td>
</tr>
<tr>
<td></td>
<td>type</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>indx</td>
</tr>
<tr>
<td></td>
<td>text</td>
</tr>
<tr>
<td></td>
<td>label</td>
</tr>
<tr>
<td></td>
<td>description</td>
</tr>
<tr>
<td></td>
<td>sourceConnectionId</td>
</tr>
<tr>
<td></td>
<td>targetConnectionId</td>
</tr>
<tr>
<td></td>
<td>lookupConnectionId</td>
</tr>
<tr>
<td></td>
<td>newFlatFile</td>
</tr>
<tr>
<td></td>
<td>flatFileName</td>
</tr>
<tr>
<td></td>
<td>newObject</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>newObjectName</td>
<td>Name of the flat file target.</td>
</tr>
</tbody>
</table>
| operationType   | The task operation for the target. Use one of the following values:  
|                 | - Insert  
|                 | - Upsert  
|                 | - Update  
|                 | - Delete  
|                 | - Data driven |
| truncateTarget  | Whether Informatica Cloud truncates a database target before writing to it. Use one of the following values:  
|                 | - True. Truncates the target.  
|                 | - False. Does not truncate the target. |
| srcFFAttrs      | Object for the source file attributes. Includes the following attributes:  
|                 | - id.  
|                 | - delimiter.  
|                 | - textQualifier.  
|                 | - escapeChar.  
|                 | - headerLineNo.  
|                 | - firstDataRow. |
| tgtFFAttrs      | Object for the target file attributes. Includes the following attributes:  
|                 | - id.  
|                 | - delimiter.  
|                 | - textQualifier.  
|                 | - escapeChar.  
|                 | - headerLineNo. |
| lkpFFAttrs      | Object for the target file attributes. Includes the following attributes:  
|                 | - id.  
|                 | - delimiter.  
|                 | - textQualifier.  
|                 | - escapeChar.  
|                 | - headerLineNo.  
|                 | - firstDataRow. |
| customFuncCfg   | Attribute to define configuration for mapplets used in the task. Use a customFuncConfig object to define the following attributes for each mapplet:  
|                 | - id.  
|                 | - connections. Attribute to define connections used in a mapplet. Use a pcsConnection object to define the following attributes for each connection:  
|                 | - id.  
|                 | - name. Connection name.  
|                 | - type. Connection type.  
|                 | - subtype. Connection subtype.  
|                 | - description  
<p>|                 | - connection Id. Connection ID. |</p>
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For more information about connections, see the connection resource.</td>
</tr>
<tr>
<td><strong>overrideFields</strong></td>
<td>Changes to field metadata. Includes the following attributes in the mtTaskOverriddenField object:</td>
</tr>
<tr>
<td></td>
<td>- name. Key field for the mtTaskOverriddenField collection.</td>
</tr>
<tr>
<td></td>
<td>- type</td>
</tr>
<tr>
<td></td>
<td>- precision</td>
</tr>
<tr>
<td></td>
<td>- scale</td>
</tr>
<tr>
<td><strong>tgtFieldRefs</strong></td>
<td>Optional.</td>
</tr>
<tr>
<td></td>
<td>Salesforce field reference IDs.</td>
</tr>
<tr>
<td><strong>runtimeAttrs</strong></td>
<td>Optional.</td>
</tr>
<tr>
<td></td>
<td>Advanced connection properties for connections used in a task.</td>
</tr>
<tr>
<td></td>
<td>Use a runtimeAttrs object to define key-value pairs of advanced connection properties. Use an entry object for each key-value pair.</td>
</tr>
<tr>
<td></td>
<td>For the attribute name, use the advanced connection property name as displayed in the Informatica Cloud application.</td>
</tr>
<tr>
<td></td>
<td>For more information about advanced connection properties, see the Informatica Cloud Help.</td>
</tr>
<tr>
<td><strong>parameterFileName</strong></td>
<td>Name of the parameter file used in the task.</td>
</tr>
<tr>
<td>masterTemplateId</td>
<td>ID of the integration template used in the task. Required when the task uses an integration template.</td>
</tr>
<tr>
<td>mappingId</td>
<td>ID of the mapping used in the task. Required when the task uses a mapping.</td>
</tr>
<tr>
<td>scheduleId</td>
<td>Schedule associated with the task flow, if any.</td>
</tr>
<tr>
<td>sessionProperties</td>
<td>Advanced session properties. Use a sessionProperties object to define key-value pairs of advanced session properties. Use an entry object for each key-value pair. For the attribute name, use the advanced session property name as displayed in the Informatica Cloud application.</td>
</tr>
<tr>
<td>outboundMessageUrlToken</td>
<td>Outbound message URL token for the task, if it exists.</td>
</tr>
<tr>
<td>outputMessageUrlQueueTime</td>
<td>Outbound message URL queue time for the task, if it exists.</td>
</tr>
<tr>
<td>runtimeEnvironmentId</td>
<td>ID of the runtime environment used for the task.</td>
</tr>
<tr>
<td>agentId</td>
<td>Agent that runs the task.</td>
</tr>
</tbody>
</table>
POST Example

To create a new Mapping Configuration task with XML, you might use the following request:

POST <serverUrl>/api/v2/mttask HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>

<mtTask>
  <errorTaskEmail>
    <taskEmail>
      <emails>email_dev@company.com, email2_dev@company.com</emails>
    </taskEmail>
  </errorTaskEmail>
  <successTaskEmail>
    <taskEmail>
      <emails>reviewer@company.com</emails>
    </taskEmail>
  </successTaskEmail>
  <warningTaskEmail>
    <taskEmail>
      <emails>email_dev@company.com, email2_dev@company.com</emails>
    </taskEmail>
  </warningTaskEmail>
  <parameters>
    <mtTaskParameter>

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sequences</td>
<td>Defines values for the Sequence Generator transformation. The following attributes are included in the sequenceDefinition object:</td>
</tr>
<tr>
<td></td>
<td>• txName. Name of the Sequence Generator transformation. Key field in the sequenceDefinition collection.</td>
</tr>
<tr>
<td></td>
<td>• initialValue. The initial value of the sequence.</td>
</tr>
<tr>
<td></td>
<td>• currentValue.</td>
</tr>
<tr>
<td>inOutParameters</td>
<td>In-out parameter used in the task. Includes the following attributes in the mtTaskInOutParameter object for each in-out parameter:</td>
</tr>
<tr>
<td></td>
<td>• id.</td>
</tr>
<tr>
<td></td>
<td>• name. Key field in the mtTaskInOutParameter collection.</td>
</tr>
<tr>
<td></td>
<td>• description</td>
</tr>
<tr>
<td></td>
<td>• initialValue.</td>
</tr>
<tr>
<td></td>
<td>• datatype</td>
</tr>
<tr>
<td></td>
<td>• precision</td>
</tr>
<tr>
<td></td>
<td>• scale</td>
</tr>
<tr>
<td></td>
<td>• retentionPolicy</td>
</tr>
<tr>
<td></td>
<td>• aggregationType</td>
</tr>
<tr>
<td></td>
<td>• currentValue.</td>
</tr>
</tbody>
</table>

POST Response

If successful, returns the mtTask object that you created or updated. Returns the error object if errors occur.

DELETE Request

To delete a Mapping Configuration task, use the task ID in the following URI:

/api/v2/mttask/<id>

DELETE Response

Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

POST Example

To create a new Mapping Configuration task with XML, you might use the following request:

POST <serverUrl>/api/v2/mttask HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>

<mtTask>
  <errorTaskEmail>
    <taskEmail>
      <emails>email_dev@company.com, email2_dev@company.com</emails>
    </taskEmail>
  </errorTaskEmail>
  <successTaskEmail>
    <taskEmail>
      <emails>reviewer@company.com</emails>
    </taskEmail>
  </successTaskEmail>
  <warningTaskEmail>
    <taskEmail>
      <emails>email_dev@company.com, email2_dev@company.com</emails>
    </taskEmail>
  </warningTaskEmail>
  <parameters>
    <mtTaskParameter>
A successful request returns the mtTask object.

**Mask Rule Parameter Attributes for Masking Techniques**

Define the parameter attribute values of a mask rule parameter when you run the Mapping Configuration task. The attributes that you define depend on the masking technique that you apply.

For example, to mask a billing city field with the Substitution City masking technique, define the following attributes:

```json
[
  {
    "referenceField": "BillingCity",
    "pcType": "string",
    "precision": 40,
    "paramMap": {
      "isSeeded": "TRUE",
      "seedValue": "190",
      "dicName": "informatica_mask_us_towns.dic",
      "outputPort": "TOWNAMES",
    },
    "maskingType": "Substitution City"
  }
]
```
The following table lists the attributes that you define for each masking technique:

<table>
<thead>
<tr>
<th>Masking Technique</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Card</td>
<td>- isSeeded&lt;br&gt;- seedValue&lt;br&gt;- keepCardIssuer&lt;br&gt;- targetIssuer</td>
</tr>
<tr>
<td>Custom Substitution</td>
<td>- DicConn&lt;br&gt;- DicName&lt;br&gt;- outputPort&lt;br&gt;- isSeeded&lt;br&gt;- seedValue</td>
</tr>
<tr>
<td>Email address</td>
<td>- isSeeded&lt;br&gt;- seedValue</td>
</tr>
<tr>
<td>IP address</td>
<td>- isSeeded&lt;br&gt;- seedValue</td>
</tr>
<tr>
<td>Key Date</td>
<td>- isSeeded&lt;br&gt;- seedValue</td>
</tr>
<tr>
<td>Key Numeric</td>
<td>- override&lt;br&gt;- isSeeded&lt;br&gt;- seedValue</td>
</tr>
<tr>
<td>Key String</td>
<td>- isSeeded&lt;br&gt;- seedValue&lt;br&gt;- useMaskFormat&lt;br&gt;- maskFormat&lt;br&gt;- useSrcFilter&lt;br&gt;- srcFilterOption&lt;br&gt;- srcFilterStr&lt;br&gt;- useTargetFilter&lt;br&gt;- targetFilterOption&lt;br&gt;- targetFilterStr</td>
</tr>
<tr>
<td>Phone</td>
<td>- isSeeded&lt;br&gt;- seedValue</td>
</tr>
<tr>
<td>Random Date</td>
<td>- useRange&lt;br&gt;- minWidth&lt;br&gt;- maxWidth&lt;br&gt;- useBlurring&lt;br&gt;- blurringUnit&lt;br&gt;- blurLow&lt;br&gt;- blurHigh</td>
</tr>
<tr>
<td>Random Numeric</td>
<td>- useRange&lt;br&gt;- minWidth&lt;br&gt;- maxWidth&lt;br&gt;- useBlurring&lt;br&gt;- blurringOption&lt;br&gt;- blurLow&lt;br&gt;- blurHigh</td>
</tr>
<tr>
<td>Masking Technique</td>
<td>Attributes</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Random String</td>
<td>- useRange</td>
</tr>
<tr>
<td></td>
<td>- minWidth</td>
</tr>
<tr>
<td></td>
<td>- maxWidth</td>
</tr>
<tr>
<td></td>
<td>- useMaskFormat</td>
</tr>
<tr>
<td></td>
<td>- useSrcFilter</td>
</tr>
<tr>
<td></td>
<td>- srcFilterStr</td>
</tr>
<tr>
<td></td>
<td>- useTargetFilter</td>
</tr>
<tr>
<td></td>
<td>- targetFilterOption</td>
</tr>
<tr>
<td></td>
<td>- targetFilterStr</td>
</tr>
<tr>
<td>SIN</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- startDigit</td>
</tr>
<tr>
<td></td>
<td>- startDigitValue</td>
</tr>
<tr>
<td>SSN</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td>Substitution City</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution Country</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution Female Name</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution Last Name</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution Male Name</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution Name</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution Position</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
<tr>
<td>Substitution State</td>
<td>- isSeeded</td>
</tr>
<tr>
<td></td>
<td>- seedValue</td>
</tr>
<tr>
<td></td>
<td>- DicName</td>
</tr>
<tr>
<td></td>
<td>- outputPort</td>
</tr>
</tbody>
</table>
### Mask Rule Parameter Attribute Values

Define the required parameter attribute values when you run the Mapping Configuration task.

The following table describes the attributes and values that you define for the mask rule parameter:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>blurHigh</td>
<td>Required. The higher bound for blurring. You can specify the value in digits. Default is 0.</td>
</tr>
<tr>
<td>blurLow</td>
<td>Required. The lower bound for blurring. You can specify the value in digits. Default is 0.</td>
</tr>
<tr>
<td>blurringOption</td>
<td>Required. The unit of blurring for a numeric port. You can specify the following values: - Percent. Blurs the data based on a percent value. - Fixed. Blurs the data based on a fixed value.</td>
</tr>
<tr>
<td>blurringUnit</td>
<td>Required. The unit of blurring for a date port. You can specify the following values: - Year. Blurs the year value. - Month. Blurs the month value. - Day. Blurs the day value. - Hour. Blurs the hour value. - Minute. Blurs the minute value. - Second. Blurs the second value. Default is Year.</td>
</tr>
<tr>
<td>delimiter</td>
<td>Delimiter to separate the first name and last name in a masked email address. You can specify the value as: - . - _</td>
</tr>
<tr>
<td>DicConn</td>
<td>The connection that contains the dictionary files. Create a flat file connection that points to the directory with the dictionary files. Specify the flat file connection name.</td>
</tr>
<tr>
<td>dicName</td>
<td>The name of the flat file dictionary file. The dictionary file must be present in the rdtmDir directory of the Secure Agent.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>domainConstantValue</td>
<td>Domain name to use in masked email addresses. Default is company.com.</td>
</tr>
<tr>
<td>expText</td>
<td>An attribute to configure an expression.</td>
</tr>
<tr>
<td>firstNameColumn</td>
<td>The first name column to use in masked email addresses. Specify the name of the port.</td>
</tr>
<tr>
<td>firstNameLength</td>
<td>The length of the first name in a masked email address. You can specify the value in digits. Default is 5.</td>
</tr>
<tr>
<td>isSeeded</td>
<td>An attribute to configure repeatable output. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Masks the data with repeatable output. When true, specify a seed value.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Masks the data with random output. Default is TRUE.</td>
</tr>
<tr>
<td>keepCardIssuer</td>
<td>Masks a credit card field with a credit card number from the same issuer. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Retains the same card issuer in the masked data.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Uses a specified card issuer in the masked data.</td>
</tr>
<tr>
<td></td>
<td>When false, define the targetIssuer attribute. Default is TRUE.</td>
</tr>
<tr>
<td>lastNameColumn</td>
<td>The last name column to use in masked email addresses. Specify the name of the port.</td>
</tr>
<tr>
<td>lastNameLength</td>
<td>The maximum length of the last name in masked email addresses. You can enter the value in digits. Default is 5.</td>
</tr>
<tr>
<td>maskFormat</td>
<td>Defines the type of character to substitute for each character in the input data. You can limit each character to an alphabetic, numeric, or</td>
</tr>
<tr>
<td></td>
<td>alphanumeric character type. Use the following characters to define a mask format:</td>
</tr>
<tr>
<td></td>
<td>- A. Alphabetic</td>
</tr>
<tr>
<td></td>
<td>- D. Digits 0-9</td>
</tr>
<tr>
<td></td>
<td>- N. Alphanumeric</td>
</tr>
<tr>
<td></td>
<td>- X. Any character</td>
</tr>
<tr>
<td></td>
<td>- R. Rest of the characters.</td>
</tr>
<tr>
<td></td>
<td>Specify the value as ADNX+R. R must appear as the last character. For example, to ensure the masked output begins with an alphabet, enter the</td>
</tr>
<tr>
<td></td>
<td>value as A+R. Default is R.</td>
</tr>
<tr>
<td>maxWidth</td>
<td>Required. The minimum value for the range. Enter the value in digits. Default is 0.</td>
</tr>
<tr>
<td>maxWidth</td>
<td>Required. The maximum value for the range. Enter the datetime value. Default is 01/19/2038 03:13:59.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>minWidth</td>
<td>Required. The minimum value for the range. Enter the datetime value. Default is 01/01/1970 00:00:00.</td>
</tr>
<tr>
<td>minWdth</td>
<td>Required. The minimum value for the range. Enter the value in digits. Default is 0.</td>
</tr>
<tr>
<td>outputPort</td>
<td>The output port column from the dictionary.</td>
</tr>
<tr>
<td>seedValue</td>
<td>The seed value. Specify a value between 1 and 999. Default is 190.</td>
</tr>
<tr>
<td>srcFilterOption</td>
<td>Required. The type of filter to apply to source filter characters. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- Mask Only. Masks only the specified characters in the source.</td>
</tr>
<tr>
<td></td>
<td>- Mask all except. Masks all characters in the source except the characters specified.</td>
</tr>
<tr>
<td>srcFilterStr</td>
<td>Required. Defines the characters in the source string that you want to mask.</td>
</tr>
<tr>
<td>startDigit</td>
<td>Required. Defines the first digit of the masked SIN. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Uses the digit that you specify as the first digit of the masked SIN.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Uses a random digit as the first digit of the masked SIN. Default is FALSE. When true, define the startDigitValue attribute.</td>
</tr>
<tr>
<td>startDigitValue</td>
<td>Required. Defines the first digit of the masked SIN. Specify a value between 0 and 9.</td>
</tr>
<tr>
<td></td>
<td>Default is 0.</td>
</tr>
<tr>
<td>targetFilterOption</td>
<td>Required. The type of filter to apply on target filter characters. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- Use Only. Uses only the target characters that you specify.</td>
</tr>
<tr>
<td></td>
<td>- Use All Except. Uses all characters in the target except what you specify.</td>
</tr>
<tr>
<td>targetFilterStr</td>
<td>Required. Substitutes the characters in a target string with the characters that you define in target filter characters. For example, enter the following characters to configure the masked output to contain all uppercase alphabetic characters: ABCDEFGHIJKLMNOPQRSTUVWXYZ.</td>
</tr>
<tr>
<td>targetIssuer</td>
<td>Required. Masked values contain credit card numbers from the issuer that you select. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- ANY</td>
</tr>
<tr>
<td></td>
<td>- JCB</td>
</tr>
<tr>
<td></td>
<td>- VISA</td>
</tr>
<tr>
<td></td>
<td>- AMEX</td>
</tr>
<tr>
<td></td>
<td>- DISCOVER</td>
</tr>
<tr>
<td></td>
<td>- MASTERCARD</td>
</tr>
<tr>
<td>useBlurring</td>
<td>Required. Masks dates based on a variance that you apply to a unit of the date. The masked date is within the variance. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Applies a variance that you specify on a unit of the date.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Does not apply a variance.</td>
</tr>
<tr>
<td></td>
<td>Default is FALSE.</td>
</tr>
<tr>
<td>Attribute</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>useMaskFormat</td>
<td>Specifies a mask format. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Masks the data based on a format that you specify.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Masks the data in a random format.</td>
</tr>
<tr>
<td></td>
<td>Default is TRUE. If true, define the maskFormat attribute.</td>
</tr>
<tr>
<td>useRange</td>
<td>Required. Specifies a return value between the minimum and maximum values of the range based on field precision. You can specify the</td>
</tr>
<tr>
<td></td>
<td>values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Masks the data within a range that you specify.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Does not use a specified range to mask the data.</td>
</tr>
<tr>
<td></td>
<td>To define the range, configure the minimum and maximum ranges or configure a blurring range based on a variance from the original source</td>
</tr>
<tr>
<td></td>
<td>value.</td>
</tr>
<tr>
<td></td>
<td>Default is FALSE.</td>
</tr>
<tr>
<td>useSrcFilter</td>
<td>Specifies the characters in the source string that you want to mask. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Masks the characters in the source string that you specify.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Masks random characters in the source string.</td>
</tr>
<tr>
<td></td>
<td>Default is FALSE.</td>
</tr>
<tr>
<td>useTargetFilter</td>
<td>Specifies the characters to use in the masked string. You can specify the following values:</td>
</tr>
<tr>
<td></td>
<td>- TRUE. Uses characters that you specify in the masked string.</td>
</tr>
<tr>
<td></td>
<td>- FALSE. Uses random characters in the masked string.</td>
</tr>
<tr>
<td></td>
<td>Default is FALSE.</td>
</tr>
</tbody>
</table>

Use this resource to request the details of your Informatica Cloud organization or a related sub-organization. You can use this resource to update an organization or related sub-organization. You can also delete a sub-organization.

**GET Request**

To request the details of your organization, use the following URI:

/api/v2/org

To request the details of a sub-organization related to your organization, you can include the sub-organization ID or sub-organization name in the URI. Use one of the following URIs:

/api/v2/org/<sub-organization ID>

/api/v2/org/name/<sub-organization name>

If you use the task name in the URI and the task name includes a space, replace the space with `%20`. For example:

/api/v2/org/name/my%20suborg

**GET Response**

When you request the details of an organization, Informatica Cloud returns the org object in list format.
If the organization is a parent organization in an organization hierarchy, the org object includes the IDs and names of all sub-organizations.

Returns the error object if errors occurred.

The org object includes the following attributes.

- **id**
  - Organization ID.

- **orgId**
  - Organization ID.

- **name**
  - Organization name.

- **description**
  - Description of the organization.

- **createTime**
  - Time the organization was created.

- **updateTime**
  - Last time the organization was updated.

- **createdBy**
  - User who created the organization.

- **updatedBy**
  - Last user who updated the organization.

- **parentOrgId**
  - Organization ID for the parent organization.
  - Returns 0 if the organization is a stand-alone or parent organization.

- **address1**
  - Address for the organization.

- **address2**
  - Additional address information for the organization.

- **address3**
  - Additional address information for the organization.

- **city**
  - City where the organization is based.

- **state**
  - State where the organization is based. Returns a state code.
  - For more information, see Appendix A, "State Codes" on page 185.

- **zipcode**
  - Postal code of the area where the organization is based.
country
Country where the organization is based. Returns a country code.
For more information, see Appendix A, "Country Codes" on page 187.

employees
Range of employees in the organization.

offerCode
Offer code assigned to Informatica Cloud partners.

successEmails
Email addresses to receive notification of tasks that complete successfully.

warningEmails
Email addresses to receive notification of tasks that complete with errors.

errorEmails
Email addresses to receive notification of tasks that fail to complete.

offerCode
Offer code assigned to Informatica Cloud partners.

campaignCode
Campaign code.

atlasProjectId
Atlas project ID.

zuoraAccountId
Zuora account ID.

spiUrl
Informatica Cloud Application Integration URL for the organization.

devOrg
Indicates the organization is a development organization.
Returns 1 for a development organization. Returns 0 for a production organization.

timezone
Time zone of the organization.

maxLogRows
Maximum number of rows to keep in the activity log.

minPasswordLength
Minimum number of characters for a user account password.

minPasswordCharMix
Mix of characters each password must contain.
Passwords can contain a mix of the following character sets: lowercase letters, capital letters, numbers, and special characters.
Returns one of the following values:

- 1. Contains at least one of the character sets.
- 2. Contains at least two of the character sets.
- 3. Contains at least three of the character sets.
- 4. Contains all four character sets.

**passwordReuseInDays**
Number of days until a previous password can be used again.
0 = Always.

**passwordExpirationInDays**
Number of days until the password expires.
0 = Never.

**subOrgLimit**
Number of sub-organizations allowed. If the limit has been customized, the REST API returns the custom limit. Otherwise, the REST API returns the limit associated with the edition.

**restApiSessionLimit**
Number of concurrent REST API sessions allowed. If the limit has been customized, the REST API returns the custom limit. Otherwise, the REST API returns the limit associated with the edition.

**parentOrgId**
Organization ID of the parent organization.
0 indicates the organization is a stand-alone or parent organization.

**jobExecUserProfile**
Informatica Cloud user account configured to run contact validation tasks.

**twoFactorAuthentication**
A security option that allows the configuration of trusted IP address ranges as an addition to account password authentication:

- False. Informatica Cloud requires account passwords for access to the organization.
- True. Informatica Cloud requires account passwords for access to the organization, and the user must login from within configured IP address ranges.

**ipAddressRanges**
For Two-Factor Authentication. One or more trusted IP address rangesthat use IP format version 4 (IPv4) or version 6 (IPv6).

**subOrg**
Object that contains the following information for each sub-organization:

**id**
ID of the sub-organization.

**name**
Name of the sub-organization.
POST Request

You can update an Informatica Cloud organization if the user that started the REST API session has the Admin role and belongs to either the organization that you want to update or the parent organization.

When you update an Informatica Cloud organization, you cannot update the organization ID, offer code, or organization administrator user account created with the organization.

You can use this resource to update a sub-organization if your organization has the Org Hierarchy license and if the user that started the REST API session has the Admin role in the parent organization.

To update the details of a sub-organization related to your parent organization, use the organization ID in the following URI. To update the details of your organization, omit the optional ID.

/api/v2/org/<id>

With this URI, you can use the following attributes in the org object:

name
  Organization name.

address1
  Address of organization.

address2
  Optional.
  Additional address information for the organization.

address3
  Optional.
  Additional address information for the organization.

city
  City where the organization is based.

state
  State where the organization is based. Use the appropriate state code.
  Required when Country is set to US.
  For more information, see Appendix A, "State Codes" on page 185.

zipcode
  Postal code of the area where the organization is based.
  Required when Country is set to US

country
  Country where the organization is based. Use the appropriate country code.
  For more information, see Appendix A, "Country Codes" on page 187.

description
  Optional.
  Description of the organization. Maximum length is 255 characters.
successEmails
Optional.
Default email addresses for notification of successful job completion.

warningEmails
Optional.
Default email addresses for warnings about job completion.

errorEmails
Optional.
Default email addresses for notification about job failure.

employees
Range of employees in the organization. Use one of the following ranges:
• '0_10'
• '11_25'
• '26_50'
• '51_100'
• '101_500'
• '501_1000'
• '1001_5000'
• '5001_'

offerCode
Optional.
Offer code assigned to Informatica Cloud partners.

POST Response
If successful, returns the org request object for the organization that you created or updated.
Returns the error object if errors occur.

DELETE Request
You can delete an Informatica Cloud sub-organization if the user that started the Informatica Cloud REST API
session has the Admin role and belongs the parent organization.

To delete an Informatica Cloud organization, use the organization ID with the following URI:
/api/v2/org/<id>

DELETE Response
Returns the 200 response code if the request is successful.
Returns the error object if errors occur.

POST Example
To update a sub-organization with an ID of 02340000, you might use the following request:

GET <serverUrl>/api/v2/org/02340000 HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>
permission

Use the permission resource to view and update user group permissions for specific entities.

You can set permission levels for specific user groups and associate the permissions to objects such as mappings, mapplets, mapping configuration tasks, task flows, and integration templates. The permissions you specify through the REST API overwrite the permissions set in the user interface.

To request user group permissions for a specified object, use the object ID in the following URI:

```
/api/v2/permission/<objectId>
```

**GET Response**

Returns an objectAcl object with the following attributes:

**objectType**

Permissions object. Returns one of the following codes:

- Agent. Secure Agent.
- Connection.
- Schedule. Task schedule.
- CustomFunc. Mapplet
- CustomSource. Saved query.
- WORKFLOW. Task flow.
- DSS. Data synchronization task.
- DRS. Data replication task.
- DQA. Data assessment task.
- PCS. PowerCenter task.
- DNB_TASK. D&B360 task.
- AVS. Contact validation task.
- MTT. Mapping configuration task.
- TEMPLATE. Integration template.
- DMASK. Data masking task.
- BUNDLE. Bundle.
- DTEMPLATE. Mapping.
- SERVICE_PROCESS. Service and process.
• RETIREMENT. Application retirement.
• AgentGroup. Runtime environment.
• BSERVICE. Business service definition.
• FWCONFIG. Fixed width file format.
• StructureDiscovery. Intelligent Structure Discovery.

objectId
ID of the object.

useDefaultPermissions
No longer used. Use the updatetype request parameter instead. Whether to use the default permissions for the specified user group.

Whether to use the default permissions for the specified user group.

aclEntries
Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the usergroup resource.

GET Example
The following example shows a request to get user group permissions information for a specific mapping:

GET <serverUrl>/api/v2/permission/00001R17000000000002 HTTP/1.0
Accept: application/json
icSessionId: <icSessionId>

The following text is a sample response:

{  
  "$type": "objectAclApi",
  "objectType": "DTEMPLATE",
  "objectId": "00001R17000000000002",
  "aclEntries": [
    {"$type": "aclEntry",
     "objectType": "DTEMPLATE",
     "createPermission": true,
     "readPermission": true,
     "updatePermission": true,
     "deletePermission": true,
     "executePermission": true,
     "adminPermission": true,
     "userGroupId": "00001R05000000000002",
     "userGroupName": "abc"
    },
    {"$type": "aclEntry",
     "objectType": "DTEMPLATE",
     "createPermission": true,
     "readPermission": true,
     "updatePermission": true,
     "deletePermission": true,
     "executePermission": true,
     "adminPermission": true,
     "userGroupId": "00001R05000000000003",
     "userGroupName": "def"
    }
  ]
}


**POST Request**

Include the updatetype request parameter for the objectAcl object in the URI. The updatetype request parameter determines how the update applies to user groups specified in the request and user groups that are not specified. Use one of the following values for the updatetype request parameter:

- **set.** The permissions of the user groups provided in the request are updated. The permissions for the remaining user groups are revoked. To use the set update type, use the following URI:
  
  ```
  /api/v2/permission/<objectId>?updatetype=set
  ```

- **setdefault.** The permissions of all user groups are set to default. For the setdefault value, the request body is optional. To use the setdefault update type, use the following URI:
  
  ```
  /api/v2/permission/<objectId>?updatetype=setdefault
  ```

- **update.** The permissions of the user groups provided in the request are updated. The permissions of user groups that are not mentioned in request remain unaffected. To use the update update type, use the following URI:
  
  ```
  /api/v2/permission/<objectId>?updatetype=update
  ```

You can use the following attributes in an objectAcl object:

**objectType**

Permissions object. Use one of the following codes:

- Agent. Secure Agent.
- Connection.
- Schedule. Task schedule.
- CustomFunc. Mapplet
- CustomSource. Saved query.
- WORKFLOW. Task flow.
- DSS. Data synchronization task.
- DRS. Data replication task.
- DQA. Data assessment task.
- PCS. PowerCenter task.
- DNB_TASK. D&B360 task.
- AVS. Contact validation task.
- MTT. Mapping configuration task.
- TEMPLATE. Integration template.
- DMASK. Data masking task.
- BUNDLE. Bundle.
- DTEMPLATE. Mapping.
- SERVICE_PROCESS. Service and process.
- RETIREMENT. Application retirement.
- AgentGroup. Runtime environment.
- BSERVICE. Business service definition.
- FWCONFIG. Fixed width file format.
- StructureDiscovery. Intelligent Structure Discovery.

**objectId**

ID of the object. Read only.

**useDefaultPermissions**

No longer used. Use the updatetype request parameter instead.

Whether to use the default permissions for the specified user group.

**aclEntries**

Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the usergroup resource.

**POST Response**

Returns an objectAcl object with the following attributes:

**objectType**

Permissions object. Use one of the following codes:

- Agent. Secure Agent.
- Connection.
- Schedule. Task schedule.
- CustomFunc. Mapplet
- CustomSource. Saved query.
- WORKFLOW. Task flow.
- DSS. Data synchronization task.
- DRS. Data replication task.
- DQA. Data assessment task.
- PCS. PowerCenter task.
- DNB_TASK. D&B360 task.
- AVS. Contact validation task.
- MTT. Mapping configuration task.
- TEMPLATE. Integration template.
- DMASK. Data masking task.
- BUNDLE. Bundle.
- DTEMPLATE. Mapping.
- SERVICE_PROCESS. Service and process.
- RETIREMENT. Application retirement.
- AgentGroup. Runtime environment.
- BSERVICE. Business service definition.
- FWCONFIG. Fixed width file format.
- StructureDiscovery. Intelligent Structure Discovery.

**objectId**

ID of the object.
aclEntries

Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the usergroup resource.

POST Examples

The following example uses the set update type for the request. The request sets permissions for a connection object, which is specified by the objectid. The request includes two user groups, specified by the userGroupId. The user groups for which permissions are provided in the request body are saved. Permissions for the remaining user groups are revoked for the object ID provided in the request URI.

```
POST <serverURL>/api/v2/permission/0000010B000000000000W?updatetype=set HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type":"objectAclApi",
  "objectType":"Connection",
  "objectId":"0000010B000000000000W",
  "useDefaultPermissions":true,
  "aclEntries": [
    {
      "@type":"aclEntry",
      "objectType":"Connection",
      "createPermission":true,
      "readPermission":true,
      "updatePermission":false,
      "deletePermission":false,
      "executePermission":false,
      "adminPermission":false,
      "id":"0000010400000000001A",
      "orgId":"000001",
      "userGroupId":"0000010500000000002",
      "userGroupName":"temp",
      "objectId": "-1"
    },
    {
      "@type":"aclEntry",
      "objectType":"Connection",
      "createPermission":true,
      "readPermission":true,
      "updatePermission":true,
      "deletePermission":true,
      "executePermission":false,
      "adminPermission":true,
      "id":"0000010400000000001B",
      "orgId":"000001",
      "userGroupId":"0000010500000000003",
      "userGroupName": "temp2",
      "objectId": "-1"
    }
  ]
}
```

The following example uses the setdefault update type for the request. Permissions for all of the user groups are set to default for the specified connection object.

```
POST <serverURL>/api/v2/permission/0000010B000000000000W?updatetype=setdefault HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "objectAclApi"
}
```

The following example uses the update update type for the request. The user groups for which the permissions are provided in the request body are saved for the specified object. The remaining user group permissions are not affected.

```
POST <serverURL>/api/v2/permission/0000010B000000000000W?updatetype=update HTTP/1.0
Content-Type: application/json
Accept: application/json

```
Use this resource to create an Informatica Cloud organization or sub-organization. For Informatica Cloud partners only.

When you create an Informatica Cloud organization, you also create an organization administrator user account. Use one of the following credentials to create the organization administrator user account:

- **Email address and other account details.**
  The information that you pass becomes the organization administrator user account. If you do not pass the emails attribute and the user name is a valid email address, the user name is used to populate the emails attribute. You can create a sub-organization if the user that started the Informatica Cloud REST API session has the Admin role and belongs to an organization with the Org Hierarchy license.

- **Salesforce login.**
  The Salesforce login becomes the organization administrator user account. Use the Salesforce login to create a Salesforce session ID and pass the session ID in the register syntax. When you use a Salesforce login, you cannot create a sub-organization.

You need an Informatica Cloud partner offer code to create an Informatica Cloud organization.
**register POST Request**

To create an Informatica Cloud organization with an email address and user account details, use the following URL.

https://app.informaticaondemand.com/ma/api/v2/user/register

To create an Informatica Cloud sub-organization, use the following URI.

/api/v2/user/register

You can create an Informatica Cloud sub-organization if your organization has the Org Hierarchy license and if the user that started the REST API session has the Admin role in the parent organization.

Use the icSessionId from the login response in the request header. Use the serverUrl from the login response as the base URL.

With both the register URL and URI, you can use the following attributes in a registration object:

**org**

Attribute that defines an Informatica Cloud organization.

Include the following attributes in an org object:

**offerCode**

Optional.

Offer code assigned to Informatica Cloud partners.

**name**

Name for the new Informatica Cloud organization.

**address1**

Address where the organization is located.

**address2**

Optional.

Additional address information for the organization.

**address3**

Optional.

Additional address information for the organization.

**city**

City where the organization is located.

**state**

State where the organization is located. Use the appropriate state code.

Required for the United States.

For more information, see Appendix A, "State Codes" on page 185.

**zipcode**

Zip code where the organization is located.

**country**

Country where the organization is located. Use the appropriate country code.
For more information, see Appendix A, "Country Codes" on page 187.

timezone
Time zone of the user. Time zone honors Daylight Saving Time.
For more information, see Appendix A, "Time Zone Codes" on page 193.

employees
Number of employees in the organization. Use one of the following ranges:
- "0_10"
- "11_25"
- "26_50"
- "51_100"
- "101_500"
- "501_1000"
- "1001_5000"
- "5001_"

user
Attribute that defines the organization administrator user account.
Include the following attributes in a user object:

name
Email address for the organization administrator account.

password
Password for the organization administrator account.

firstName
First name of the organization administrator.

lastName
Last name of the organization administrator.

title
Title of the organization administrator.

phone
Phone number for the organization administrator.

e-mails
Email address that receives notification from Informatica Cloud.

timezone
Optional.
Time zone of the organization administrator. Time zone honors Daylight Saving Time.
Use the appropriate time zone code.
For more information, see Appendix A, "Time Zone Codes" on page 193.
If no valid time zone is passed, Informatica Cloud uses America/Los_Angeles by default.
securityQuestion
Optional.
Security question. Use one of the following codes to select the security question:
• SPOUSE_MEETING_CITY
• FIRST_JOB_CITY
• CHILDHOOD_FRIEND
• MOTHER_MAIDEN_NAME
• PET_NAME
• CHILDHOOD_NICKNAME
• CUSTOM_QUESTION:"<question>"

securityAnswer
Optional.
Answer to the security question.

forceChangePassword
Optional.
Determines if the user must reset the password after the user logs in for the first time. Includes the following values:
• True. The user must reset the password.
• False. The user is not forced to reset the password.

optOutOfEmails
Optional.
Whether the user opts in or out of receiving marketing communication from Informatica. TRUE indicates that the user does not want to receive marketing communication.

registrationCode
Registration code.

sendEmail
Optional.
When registration completes, sends an email to the user email address with temporary login information. Use TRUE to send an email.

registerSf POST Request
To create an Informatica Cloud organization with a Salesforce login for the user account, use the following URL:

https://app.informaticaondemand.com/ma/api/v2/user/registerSf

With this URL, use the following attributes in the registrationSf object:

sfSessionId
Salesforce session ID.
The Salesforce login used to create the session ID becomes the Informatica Cloud user account for the organization.
For information about generating the Salesforce session ID, see the login resource in the Salesforce Web Services API Developer's Guide.

**sfServerUrl**
Salesforce URL.

**offerCode**
Optional.
Offer code assigned to Informatica Cloud partners.

**registrationCode**
Registration code.

**icsPassword**
Optional.
Password for the Informatica Cloud account.

**securityQuestion**
Optional.
Security question. Use one of the following codes to select the security question:
- SPOUSE_MEETING_CITY
- FIRST_JOB_CITY
- CHILDHOOD_FRIEND
- MOTHER_MAIDEN_NAME
- PET_NAME
- CHILDHOOD_NICKNAME
- CUSTOM_QUESTION:"<question>"

**securityAnswer**
Optional.
Answer to the security question.

**sendEmail**
Optional.
When registration completes, sends an email to the user email address with temporary login information. Use TRUE to send an email.

**timezone**
Optional.
Time zone of the organization administrator. Time zone honors Daylight Saving Time.

Use the appropriate time zone code.
For more information, see Appendix A, "Time Zone Codes" on page 193. If no valid time zone is passed, Informatica Cloud uses America/Los_Angeles by default.

**POST Response**
Returns the user object if the request is successful. Returns the error object if errors occur.
The user object includes the following attributes.

**id**
User ID.

**orgId**
ID of the organization the user belongs to.

**name**
Informatica Cloud user name.

**description**
Description of the user.

**createTime**
When the user account was created.

**updateTime**
When the user account was last updated.

**createdBy**
Informatica Cloud user who created the user account.

**updatedBy**
Informatica Cloud user who last updated the user account.

**sfUsername**
Salesforce user name.

**password**
Password. If using sfUsername, this is the Salesforce password.

**firstName**
First name for the user account.

**lastName**
Last name for the user account.

**title**
Title of the user.

**phone**
Phone number for the user.

**securityQuestion**
Security question. Returns one of the following codes:
- SPouse_MEETING_CITY
- first_JOB_CITY
- CHILDHOOD_FRIEND
- MOTHER_MAIDEN_NAME
- PET_NAME
- CHILDHOOD_NICKNAME
- CUSTOM_QUESTION:<question>
securityAnswer
Answer to the security question.

roles
Roles assigned to the user. The following attributes are included in a role object for each role:
  name
  Role name. Returns one of the following codes:
  • SERVICE_CONSUMER
  • DESIGNER
  • ADMIN
  description
  Description.

usergroups
User group assigned to the user. The following attributes are included in a usergroup object for each user group:
  id
  User group ID.
  orgId
  Organization ID.
  name
  User group name.
  description
  Description.
  createTime
  Time the user group was created.
  updateTime
  Last time the user group was updated.
  createdBy
  User who created the user group.
  updatedBy
  User who last updated the user group.
  aclEntry
  Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the “usergroup” on page 177 resource.

emails
Email address to be notified when the user changes the account password.
If you pass multiple email addresses in this field, Informatica Cloud uses the first email address in the list.
timezone

Time zone of the user. Time zone honors Daylight Saving Time.

For more information, see Appendix A, "Time Zone Codes on page 193."

serverUrl

Informatica Cloud URL for the organization the user belongs to. Use the serverUrl as a base for most REST API resource URIs.

spiUrl

Informatica Cloud Application Integration URL for the organization the user belongs to.

uuId

Unique identifier for the user.

icSessionId

Informatica Cloud REST API session ID. Use in most REST API request headers.

forceChangePassword

Determines if the user must reset the password after the user logs in for the first time. Includes the following values:

- True. The user must reset the password.
- False. The user is not forced to reset the password.

**POST Examples**

To register an organization in JSON, you might use the following request:

```json
POST https://app.informaticaondemand.com/ma/api/v2/user/register HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type" : "registration",
  "user" : {
    "@type" : "user",
    "name" : "useremail@company.com",
    "emails" : "useremail@company.com",
    "firstName" : "firstName",
    "lastName" : "lastName",
    "title" : "jobTitle",
    "phone" : "(01234 567 890",
    "timezone" : null,
    "forceChangePassword" : "true",
    "optOutOfEmails" : "true"
  },
  "org" : {
    "@type" : "org",
    "offerCode" : "PPC30daytrial",
    "campaignCode" : "PPC",
    "name" : "myOrg",
    "address1" : "1 Main St",
    "city" : "Wycliffe",
    "state" : "CA",
    "zipCode" : "90210",
    "country" : "US",
    "employees" : "5001_"
  },
  "registrationCode" : "ics-standard",
  "sendEmail" : true
}
```

A successful request returns the user object that was created, which includes the organization ID for the organization that was created.
To register a new organization using Salesforce credentials in JSON, you might use the following request:

```
POST https://app.informaticaon-demand.com/ma/api/v2/user/registerSf HTTP/1.0
Content-Type: application/json
Accept: application/json

{
  "@type": "registrationSf",
  "sfSessionId": "salesforce1000003",
  "sfServerUrl": "http://www.salesforceURL.com",
  "offerCode": "OFFERCODE"
}
```

A successful request returns the user object that was created, which includes the organization ID for the organization that was created.

### runtimeEnvironment

Use the runtimeEnvironment resource to get information about runtime environments for an organization.

To request runtime environment information, use the following URI:

/api/v2/runtimeEnvironment

To request the details of a particular runtime environment, you can include the runtime environment ID or name in the URI. Use one of the following URIs:

- `/api/v2/runtimeEnvironment/<id>`
- `/api/v2/runtimeEnvironment/name/<name>`

If you use the runtime environment name in the URI and the runtime environment name includes a space, replace the space with `%20`. For example:

`/api/v2/runtimeEnvironment/name/my%20runtime%20environment`

**GET Response**

Returns runtime environment information for the requested runtime environment. The runtimeEnvironment object includes the following attributes:

- **id**
  - Runtime environment ID.

- **orgId**
  - Organization ID.

- **name**
  - Runtime environment name.

- **description**
  - Runtime environment description.

- **createTime**
  - Date and time that the runtime environment was created.

- **updateTime**
  - Date and time that the runtime environment was last updated.
createdBy

User who created the runtime environment.

updatedBy

User who last updated the runtime environment.

agents

Agents assigned to the runtime environment. For more information, see the agent resource.

isShared

Indicates whether the Secure Agent group is shared. Returns one of the following values:

• true. The Secure Agent group is shared.
• false. The Secure Agent group is not shared.

Get Example

To request the details of a particular runtime environment, you might use the following request:

GET <serverUrl>/api/v2/runtimeEnvironment/00000425000000000000 HTTP/1.0
Accept:application/json
icSessionId: <icSessionId>

The following text is a sample return in XML:

```xml
  {
    "@type": "runtimeEnvironment",
    "id": "00000425000000000000",
    "orgId": "000004",
    "name": "SUT_Agent",
    "createTime": "2016-12-09T12:34:01.000Z",
    "updateTime": "2016-12-09T17:54:00.000Z",
    "createdBy": "org@infa.com",
    "updatedBy": "org@infa.com",
    "agents": [
      {
        "@type": "agent",
        "id": "00000408000000000000",
        "orgId": "000004",
        "name": "USW1MJ02YNKJ",
        "createTime": "2016-12-09T13:21:57.000Z",
        "updateTime": "2017-01-25T16:37:37.000Z",
        "createdBy": "admin",
        "updatedBy": "admin",
        "active": true,
        "readyToRun": false,
        "platform": "win64",
        "agentHost": "USW1MJ02YNKJ",
        "serverUrl": "https://aws-qa5.infa.com/saas",
        "proxyPort": 0,
        "agentVersion": "33.0",
        "upgradeStatus": "NotUpgrading",
        "apiUrl": "https://ts1w2a.rt.informaticacloud.com",
        "lastUpgraded": "2016-12-27T17:37:51.000Z",
        "packages": [],
        "agentConfigs": [],
        "configUpdateTime": "2017-01-18T13:57:15.000Z"
      }
    ],
    "isShared": true
  }
```
salesforceVersion

Deprecated. This resource is no longer used.

GET Request
Use the following URI to request the version of Salesforce used by default by Informatica Cloud:
/api/v2/server/salesforceVersion

GET Response
Returns the salesforceVersion object if the request is successful. Returns the error object if errors occur.

The salesforceVersion object includes the following attribute:

versionNo
Salesforce version number.

GET Example
To check the Salesforce version, you might use the following request:

```plaintext
GET <serverUrl>/api/v2/server/salesforceVersion HTTP/1.0
Accept: application/json
icSessionId: <icSessionId>
```

schedule

Use this resource to request the details of a schedule or the details of all schedules in the organization. You can create or update a schedule. You can also delete a schedule.

GET Request
To view the details of all schedules in the organization, use the following URI:
/api/v2/schedule
To request the details of a particular schedule, you can include the schedule ID or schedule name in the URI. Use one of the following URIs:

- /api/v2/schedule/<id>
- /api/v2/schedule/name/<name>

If you use the schedule name in the URI and the schedule name includes a space, replace the space with %20. For example:

- /api/v2/schedule/name/my%20schedule

GET Response
If successful, returns the schedule object for the requested schedule. Or, if you request the details for all schedules, returns the schedule object for each schedule in the organization.

Returns the error object if errors occur.

The schedule object includes the following attributes:

id
Schedule ID.
orgId
Organization ID.

name
Schedule name.

description
Description of the schedule.

cREATEtime
Time the schedule was created.

updateTime
The last time the schedule was updated.

createdBy
User who created the schedule.

updatedBy
User who last updated the schedule.

starttime
Start time of the schedule.

endtime
End time of the schedule.

interval
Repeat interval for the schedule. Returns one of the following codes:
- None. The schedule does not repeat.
- Minutely. Tasks run on an interval based on a specified number of minutes.
- Hourly. Tasks run on an hourly interval based on the specified number of hours, days, and time range.
- Daily. Tasks run daily at the configured start time.
- Weekly. Tasks run at the configured start time on the configured days.
- Monthly. Tasks run at the configured start time on the configured day of the month.

frequency
Frequency that the schedule runs. Returns a numeric value that represents one of the following:
- For Minutely intervals: tasks run every n minutes.
- For Hourly intervals: tasks run every n hours.

Minutely and Hourly intervals only.

rangeStartTime
The start of the time range within a day that tasks run. Minutely and Hourly intervals only.

rangeEndTime
The end of the time range within a day that tasks run. Minutely and Hourly intervals only.
sun
Tasks run on Sunday. Returns one of the following codes:

- true. The tasks run on Sunday.
- false. The tasks do not run on Sunday.

Minutely, Hourly, and Weekly intervals only.

mon
Tasks run on Monday. Returns one of the following codes:

- true. The tasks run on Monday.
- false. The tasks do not run on Monday.

Minutely, Hourly, and Weekly intervals only.

tue
Tasks run on Tuesday. Returns one of the following codes:

- true. The tasks run on Tuesday.
- false. The tasks do not run on Tuesday.

Minutely, Hourly, and Weekly intervals only.

wed
Tasks run on Wednesday. Returns one of the following codes:

- true. The tasks run on Wednesday.
- false. The tasks do not run on Wednesday.

Minutely, Hourly, and Weekly intervals only.

thu
Tasks run on Thursday. Returns one of the following codes:

- true. The tasks run on Thursday.
- false. The tasks do not run on Thursday.

Minutely, Hourly, and Weekly intervals only.

fri
Tasks run on Friday. Returns one of the following codes:

- true. The tasks run on Friday.
- false. The tasks do not run on Friday.

Minutely, Hourly, and Weekly intervals only.

sat
Tasks run on Saturday. Returns one of the following codes:

- true. The tasks run on Saturday.
- false. The tasks do not run on Saturday.

Minutely, Hourly, and Weekly intervals only.
**weekDay**
Tasks run on weekdays only. Returns one of the following codes:
- true. The tasks run on weekdays.
- false. The tasks run every day.
Daily interval only.

**dayOfMonth**
Date of the month that tasks run. Returns a date between 1-28.
Monthly interval only.

**weekOfMonth**
Week of the month that tasks run. Returns one of the following codes:
- First. The tasks run in the first week of the month.
- Second. The tasks run in the second week of the month.
- Third. The tasks run in the third week of the month.
- Fourth. The tasks run in the fourth week of the month.
- Last. The tasks run in the last week of the month.
Monthly interval only.

**dayOfWeek**
Day of the week that tasks run. Returns one of the following codes:
- Day. Tasks run on the first day or last day of the month, based on the selected weekOfMonth option.
- Sunday. The tasks run on Sunday.
- Monday. The tasks run on Monday.
- Tuesday. The tasks run on Tuesday.
- Wednesday. The tasks run on Wednesday.
- Thursday. The tasks run on Thursday.
- Friday. The tasks run on Friday.
- Saturday. The tasks run on Saturday.
Monthly interval only.

**timeZone**
Time zone of the user who last updated the schedule. Time zone honors Daylight Saving Time.

**POST Request**
To update a schedule, use the schedule ID with the following URI. To create a schedule, omit the optional schedule ID.

/api/v2/schedule/<id>

You can submit a partial update using partial mode. To submit a request using partial mode, use a JSON request and include the following line in the header:

```
Update-Mode=PARTIAL
```

You can use the following attributes in a **schedule** object:
id
Required.
Schedule ID.

orgId
Required.
Organization ID.

name
Required.
Schedule name.

description
Optional.
Description of the schedule.

startTime
Required.
Date and time when the schedule starts running. Use the following format:
YYYY-MM-DDTHH24:MI:SSZ

endTime
Optional.
Date and time when the schedule stops running. If you do not use this parameter, the schedule runs indefinitely.
Use the following format:
YYYY-MM-DDTHH24:MI:SSZ

interval
Required.
Interval or repeat frequency at which the schedule runs. Use one of the following options:

- None. Tasks run at the schedule start time. The schedule does not repeat.
- Minutely. Tasks run on an interval based on the specified number of minutes, days, and time range.
  You can use the following parameters:
  - frequency. Frequency in minutes that tasks run.
  - sun, mon, tue, wed, thu, fri, sat. The days of the week that tasks run.
  - startTimeRange and endTimeRange. The time range within a day tasks should run. Do not use if you want tasks to run all day.
  - endTime. When the schedule should stop running. Do not use if you want the schedule to run indefinitely.
- Hourly. Tasks run on an hourly interval based on the start time of the schedule. You can use the following parameters:
  - frequency. Frequency in hours that tasks run.
  - sun, mon, tue, wed, thu, fri, sat. The days of the week that tasks run.
- startTimeRange and endTimeRange. The time range within a day tasks should run. Do not use if you want tasks to run all day.
- endTime. When the schedule should stop running. Do not use if you want the schedule to run indefinitely.

- Daily. Tasks run daily at the start time configured for the schedule. You can use the following parameters:
  - weekDay. Runs the tasks every weekday. Do not use if you want the tasks to run every day.
  - endTime. When the schedule should stop running. Do not use if you want the schedule to run indefinitely.

- Weekly. Tasks run on a weekly interval based on the start time of the schedule. You can use the following parameters:
  - sun, mon, tue, wed, thu, fri, sat. The days of the week that tasks run.
  - endTime. When the schedule should stop running. Do not use if you want the schedule to run indefinitely.

- Monthly. Tasks run on a monthly interval based on the start time of the schedule. You can use the following parameters:
  - dayOfMonth. Day of the month when you want tasks to run, between 1-28.
  - dayOfWeek. Day of the week when you want tasks to run.
  - weekOfMonth. Week of the month when you want tasks to run.
  - endTime. When the schedule should stop running. Do not use if you want the schedule to run indefinitely.

To indicate when tasks should run, use dayOfWeek with weekOfMonth, such as the First Monday. Or use dayOfMonth, such as 1.
Tip: To run tasks on the last day of the month, use the Last weekOfMonth parameter with the Day dayOfWeek parameter.

**frequency**

Optional.

Repeat frequency for tasks. Use one of the following values:

- For the Minutely interval, use one of the following options: 5, 10, 15, 20, 30, 45.
- For the Hourly interval, use one of the following options: 1, 2, 3, 4, 6, 8, 12.

Use with Minutely and Hourly intervals only.

**rangeStartTime**

Optional.

The start of the time range within a day that you want tasks to run. Enter a date and time using the following format. Only the time portion is used:

```
YYYY-MM-DDTHH24:MI:SSZ
```

Use with Minutely and Hourly intervals only.

**rangeEndTime**

Optional.

The end of the time range within a day that you want tasks to run. Enter a date and time using the following format. Only the time portion is used:
YYYY-MM-DDTHH24:MI:SSZ
Use with Minutely and Hourly intervals only.

sun
Optional.
Runs tasks on Sunday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.
Use one of the following options:
• True. Runs tasks on Sunday.
• False. Does not run tasks on Sunday.
Use with Minutely, Hourly, and Weekly intervals only.

mon
Optional.
Runs tasks on Monday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.
Use one of the following options:
• True. Runs tasks on Monday
• False. Does not run tasks on Monday.
Use with Minutely, Hourly, and Weekly intervals only.

tue
Optional.
Runs tasks on Tuesday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.
Use one of the following options:
• True. Runs tasks on Tuesday.
• False. Does not run tasks on Tuesday.
Use with Minutely, Hourly, and Weekly intervals only.

wed
Optional.
Runs tasks on Wednesday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.
Use one of the following options:
• True. Runs tasks on Wednesday.
• False. Does not run tasks on Wednesday.
Use with Minutely, Hourly, and Weekly intervals only.

thu
Optional.
Runs tasks on Thursday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.
Use one of the following options:

- True. Runs tasks on Thursday.
- False. Does not run tasks on Thursday.

Use with Minutely, Hourly, and Weekly intervals only.

**fri**

Optional.

Runs tasks on Friday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.

Use one of the following options:

- True. Runs tasks on Friday.
- False. Does not run tasks on Friday.

Use with Minutely, Hourly, and Weekly intervals only.

**sat**

Optional.

Runs tasks on Saturday at the configured time. You can use the sun - sat parameters to run tasks on several days of the week.

Use one of the following options:

- True. Runs tasks on Saturday.
- False. Does not run tasks on Saturday.

Use with Minutely, Hourly, and Weekly intervals only.

**weekDay**

Optional.

Runs tasks on weekdays. Use one of the following options:

- True. Run tasks on Monday through Friday. Does not run tasks on the weekend.
- False. Run tasks every day.

Use with the Daily interval only.

**dayOfMonth**

Optional.

Date of the month that tasks should run. Use a date between 1-28.

Use with the Monthly interval only.

Tip: To run tasks on the last day of the month, use the Last weekOfMonth parameter with the Day dayOfWeek parameter.

**weekOfMonth**

Optional.

Week of the month that tasks should run. Use with dayOfWeek to specify the day and week of the month that tasks should run. For example, the First Day or the Last Wednesday of the month.
Use one of the following options:

- First
- Second
- Third
- Fourth
- Last

Use with the Monthly interval only.

**dayOfWeek**

Optional.

Day of the week that tasks should run. Use with weekOfMonth to specify the day and week of the month that tasks should run. For example, the First Day or the Last Wednesday of the month.

Use one of the following options:

- Day
- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

Use with the Monthly interval only.

**timeZone**

Optional.

Time zone to use for the schedule. If no valid time zone is passed, Informatica Cloud uses the user’s time zone.

For more information, see Appendix A, [Time Zone Codes](#) on page 193.

**POST Response**

Returns the schedule response object for the schedule that you created or updated.

Returns an error object if errors occur.

**DELETE Request**

To delete a schedule, use the schedule ID with the following URI:

/api/v2/schedule/<id>

**DELETE Response**

Returns the 200 response code if the request is successful.

Returns an error object if errors occur.
GET Example
To request information about all schedules in the organization, you might use the following request:

```
GET <serverUrl>/api/v2/schedule HTTP/1.0
Accept: application/json
icSessionId: <icSessionId>
```

A successful request returns a schedule object for each schedule in the organization.

serverTime

Use this resource to return the local time for the Informatica Cloud server.

GET Request
To request the local time of the Informatica Cloud server, use the following URI.

```
/api/v2/server/serverTime
```

GET Response
Returns the serverTime object if the request is successful. Returns an error object if errors occur.

The serverTime object includes the following attribute:

<table>
<thead>
<tr>
<th>attribute</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>time</td>
<td>Local time of the Informatica Cloud server.</td>
</tr>
</tbody>
</table>

GET Example
To check the local time of the Informatica Cloud server, you might use the following request:

```
GET <serverUrl>/api/v2/server/serverTime HTTP/1.0
Accept: application/xml
icSessionId: <icSessionId>
```

task

Use this resource to request a list of tasks of a specified type. You can use this resource to retrieve the name and ID for a task.

GET Request
To request a list of tasks of a specified type, use the task type code in the following URI.

```
/api/v2/task?type=<type>
```
Use the following attribute in the URI:

<table>
<thead>
<tr>
<th>Field</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
</table>
| type  | Yes      | Use one of the following codes:  
- DMASK. Data Masking task.  
- DRS. Data Replication task.  
- DSS. Data Synchronization task.  
- MTT. Mapping Configuration task.  
- PCS. PowerCenter task. |

**GET Response**

If the request is successful, returns the task object for every task of the requested type. Returns the error object if errors occur.

The task object includes the following attributes:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>Task ID.</td>
</tr>
<tr>
<td>orgId</td>
<td>String</td>
<td>Organization ID.</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Task name.</td>
</tr>
<tr>
<td>description</td>
<td>String</td>
<td>Description.</td>
</tr>
<tr>
<td>createTime</td>
<td>String</td>
<td>Time the task was created.</td>
</tr>
<tr>
<td>updateTime</td>
<td>String</td>
<td>Last time the task was updated.</td>
</tr>
<tr>
<td>createdBy</td>
<td>String</td>
<td>User who created the task.</td>
</tr>
<tr>
<td>updatedBy</td>
<td>String</td>
<td>User who last updated the task.</td>
</tr>
</tbody>
</table>

**GET Example**

To view a list of all Data Synchronization tasks, use the following request.

/api/v2/task?type=DSS

**user**

Use this resource to request the details of an Informatica Cloud user account or the details of all user accounts in the organization. If you have administrator privileges, you can also use this resource to create or update a user account and to delete a user account. To ensure organization security, this resource does not display or update the password for a user account.

**GET Request**

To request the details of all Informatica Cloud user accounts, use the following URI:

/api/v2/user
To request the details of a particular Informatica Cloud user account, you can include the user account ID or user name in the URI. Use one of the following URIs:

```
/api/v2/user/<id>
/api/v2/user/name/<name>
```

If you use the user name in the URI and the user name includes a space, replace the space with %20. For example:

```
/api/v2/user/name/Fred%20Smith
```

**GET Response**

When you request the details for a user account, Informatica Cloud returns the user object for the requested user account. When you request the details of all user accounts, Informatica Cloud returns the user object for each user account in the organization.

The user object includes the following attributes:

- **id**
  - User ID.

- **orgId**
  - ID of the organization the user belongs to.

- **name**
  - Informatica Cloud user name.

- **description**
  - Description of the user.

- **createTime**
  - When the user account was created.

- **updateTime**
  - When the user account was last updated.

- **createdBy**
  - Informatica Cloud user who created the user account.

- **updatedBy**
  - Informatica Cloud user who last updated the user account.

- **sfUsername**
  - Salesforce user name.

- **password**
  - Password. If using sfUsername, this is the Salesforce password.

- **firstName**
  - First name for the user account.

- **lastName**
  - Last name for the user account.

- **title**
  - Title of the user.
phone

Phone number for the user.

securityQuestion

Security question. Returns one of the following codes:

- SPOUSE_MEETING_CITY
- FIRST_JOB_CITY
- CHILDHOOD_FRIEND
- MOTHER_MAIDEN_NAME
- PET_NAME
- CHILDHOOD_NICKNAME
- CUSTOM_QUESTION: '<question>'

securityAnswer

Answer to the security question.

roles

Roles assigned to the user. The following attributes are included in a role object for each role:

ame

Role name. Returns one of the following codes:

- SERVICE_CONSUMER
- DESIGNER
- ADMIN

description

Description.

usergroups

User group assigned to the user. The following attributes are included in a usergroup object for each user group:

id

User group ID.

groupId

Organization ID.

name

User group name.

description

Description.

createTime

Time the user group was created.

updateTime

Last time the user group was updated.
createdBy
User who created the user group.

updatedBy
User who last updated the user group.

aclEntry
Permissions assigned to the user group. Includes permissions attributes in an aclEntry object for each object type. For more information about the aclEntry object, see the "usergroup" on page 177 resource.

e-mails
Email address to be notified when the user changes the account password.
If you pass multiple email addresses in this field, Informatica Cloud uses the first email address in the list.

timezone
Time zone of the user. Time zone honors Daylight Saving Time.
For more information, see Appendix A, "Time Zone Codes" on page 193.

serverUrl
Informatica Cloud URL for the organization the user belongs to. Use the serverUrl as a base for most REST API resource URIs.

spiUrl
Informatica Cloud Application Integration URL for the organization the user belongs to.

uuId
Unique identifier for the user.

icSessionId
Informatica Cloud REST API session ID. Use in most REST API request headers.

forceChangePassword
Determines if the user must reset the password after the user logs in for the first time. Includes the following values:
- True. The user must reset the password.
- False. The user is not forced to reset the password.

POST Request
You must be logged in as an administrator in order to create users or update user details. To update the details of an existing user account, use the user account ID in the following URI. To create a new Informatica Cloud user account, omit the optional user account ID.

/api/v2/user/<id>

With this URI, you can use the following attributes in a user object:

name
Required unless the user is a SAML single sign-on user.
Informatica Cloud user name.
sfUsername
Optional.
Salesforce user name.

password
Password. If using sfUsername, this is the Salesforce password. Not required for a SAML single sign-on user.

firstName
Required.
First name for the user account.

lastName
Required.
Last name for the user account.

title
Required.
Title of the user.

phone
Required.
Phone number for the user.

emails
Optional.
Email address to be notified when the user changes the account password. If you pass multiple email addresses in this field, Informatica Cloud uses the first email address in the list.

description
Optional.
Description of the user.

timezone
Optional.
Time zone of the user. Time zone honors Daylight Saving Time. Use the appropriate time zone code. If no valid time zone is passed, Informatica Cloud uses America/Los_Angeles by default.
For more information, see Appendix A, “Time Zone Codes” on page 193

securityQuestion
Optional.
Security question. Use one of the following codes to select the security question:
- SPOUSE_MEETING_CITY
- FIRST_JOB_CITY
- CHILDHOOD_FRIEND
- MOTHER_MAIDEN_NAME
- PET_NAME
- CHILDHOOD_NICKNAME
- CUSTOM_QUESTION::"<question>"

**securityAnswer**

Optional.

Answer to the security question.

**roles**

Required.

Role for the user. Use one of the following codes:

- SERVICE_CONSUMER
- DESIGNER
- ADMIN

**usergroups**

Optional.

User group for the user.

**forceChangePassword**

Determines if the user must reset the password after the user logs in for the first time. Includes the following values:

- True. The user must reset the password.
- False. The user is not forced to reset the password.

**POST Response**

Returns the user response object for the requested user account. Or, if you requested information for all user accounts, returns the user response object for each user account in the organization.

Returns an error object if errors occur.

**DELETE Request**

To delete a user, use the user account ID in the following URI.

/api/v2/user/<id>

**DELETE Response**

Returns the 200 response code if the request is successful.

Returns an error object if errors occur.

**POST Example**

To create a new user, you might use the following request:

```xml
POST <serverUrl>/api/v2/user/ HTTP/1.0
Content-Type: application/xml
Accept: application/xml
icSessionId: <icSessionId>

<User>
  <name>username@company.com</name>
  <firstName>User</firstName>
  <lastName>Name</lastName>
  <title>developer</title>
  <timeZone>America/Chicago</timeZone>
</User>
```
usergroup

Use this resource to request the details of a user group or the details of all user groups in the organization.

GET Resource

To request the details of all user groups in the organization, use the following URI:

/api/v2/usergroup

To request the details of a particular user group, include the user group ID or the user group name in the URI. Use one of the following URIs:

/api/v2/usergroup/<id>
/api/v2/usergroup/name/<name>

If you use the user group name in the URI and the user group name includes a space, replace the space with `%20`. For example:

/api/v2/usergroup/name/my%20user%20group

GET Response

Returns the usergroup object for the requested user group. When you request information for all user groups in the organization, returns a usergroup object for each user group in the organization.

Returns the error object if errors occur.

The usergroup object includes the following attributes:

- **id**
  - User group ID.

- **orgId**
  - Organization ID.

- **name**
  - User group name.

- **description**
  - Description.

- **createTime**
  - Time the user group was created.

- **updateTime**
  - Time the user group was last updated.

- **createdBy**
  - User who created the user group.

- **updatedBy**
  - User who last updated the user group.

- **aclEntry**
  - Permissions assigned to the user group. Each aclEntry (Access Control List) represents the permissions associated with a given object type. Includes the following attributes in an aclEntry object for each object type:
adminPermission
Allows you to configure permissions for individual objects of the selected type.

createPermission
Allows you to create objects. Also allows you to download and install the Secure Agent.

deletePermission
Allows you to delete objects.

executePermission
Allows you to run tasks and task flows. Allows you to restart tasks from the activity log. Allows you to monitor jobs and stop jobs in the activity monitor.
Also allows you to add tasks to a task flow if you have update permission on the task flow.

objectType
Permissions object. Returns one of the following codes:

- Agent. Secure Agent.
- Connection.
- Schedule.
- CustomFunc. Mapplet
- CustomSource. Saved query.
- WORKFLOW. Task flow.
- DSS. Data synchronization task.
- DRS. Data replication task.
- DQA. Data assessment task.
- PCS. PowerCenter task.
- DNB_TASK. D&B360 task.
- AVS. Contact validation task.
- MTT. Mapping configuration task.
- TEMPLATE. Integration template.
- DMASK. Data masking task.
- BUNDLE. Bundle.
- DTEMPLATE. Mapping.
- SERVICE_PROCESS. Service and process.
- RETIREMENT. Application retirement.
- AgentGroup. Runtime environment.
- BSERVICE. Business service definition.
- FWCONFIG. Fixed width file format.
- StructureDiscovery. Intelligent Structure Discovery.

readPermission
Allows you to view objects and view the details about each object. Also allows you to use a connection or schedule in a task.
updatePermission
   Allows you to edit objects.

id
   User group ID.
orgId
   Organization ID.
userId
   User ID.
objectId
   ID of the permissions object.
objectDeleted
   Whether the object was deleted. Returns one of the following values:
   • True
   • False
addedByAppId

GET Example
To request the details for all user groups in the organization, use the following URI:

/api/v2/usergroup

workflow

Use this resource to request the details of task flow or the details of all task flows in the organization. You can also create or update a task flow, and you can delete a task flow.

GET Request
To request the details of a particular task flow, include the task flow ID or task flow name in the URI. Use one of the following URIs:

/api/v2/workflow/<id>
/api/v2/workflow/name/<name>

If you use the task flow name in the URI and the task flow name includes a space, replace the space with %20. For example:

/api/v2/workflow/name/my%20workflow

To request the details of all task flows in the organization, use the following URI:

/api/v2/workflow

Optionally, you can receive the response in simple mode which significantly improves performance. When you enable simple mode, the response does not include the ScheduleId attribute and the email attributes. To receive the response in simple mode, include simpleMode=true in the request. Use the following URI to receive details of all task flows using simple mode:

/api/v2/workflow/?simpleMode=true
GET Response

If successful, returns the workflow object for the requested task flow. Or, if you request the details for all task flows in the organization, returns a workflow object for each task flow in the organization.

Returns an error object if errors occurred.

The workflow object includes the following attributes:

- **id**
  Task flow ID.

- **orgId**
  Organization ID.

- **name**
  Task flow name.

- **description**
  Description.

- **createTime**
  Time the task flow was created.

- **updateTime**
  Last time the task flow was updated.

- **createdBy**
  User who created the task flow.

- **updatedBy**
  User who last updated the task flow.

- **errorTaskEmail**
  Attribute that includes the following attributes in the taskEmail object:

  - **id**
    ID.

  - **emails**
    Email addresses to receive notification if the task flow fails to complete.

- **successTaskEmail**
  Attribute that includes the following attributes in the taskEmail object:

  - **id**
    ID.

  - **emails**
    Email addresses to receive notification if the task flow completes successfully.

- **warningTaskEmail**
  Attribute that includes the following attributes in the taskEmail object:

  - **id**
    ID.
emails
Email addresses to receive notification if the task flow completes with errors.

agentId
Agent that runs the tasks.

runtimeEnvironmentId
Runtime environment where the tasks run.

scheduleId
Schedule associated with the task flow, if any.

preProcessingCmd
Command to run before the task.

postProcessingCmd
Command to run after the task.

tasks
Attribute that defines each task associated with the workflow.
Includes the following information for each task in a workflowTask object:

taskId
Task ID.

type
Workflow task type. Returns one of the following codes:
- AVS. Contact validation task.
- DMASK. Data masking task.
- DQA. Data assessment task.
- DRS. Data replication task.
- DSS. Data synchronization task.
- MTT. Mapping configuration task.
- PCS. PowerCenter task.

name
Task name.

stopOnError
Stops the task flow if a task fails to complete.

stopOnWarning
Stops the task flow if a task completes with warnings.

POST Request
To update a task flow, use the following URI:
/apiv2/workflow/<id>
To create a task flow, omit the optional task flow ID.
When you update a task flow, Informatica Cloud replaces the existing task flow with the update.
You can submit a partial update using partial mode. If you want to update a field in the workflowTask object using partial mode, you must include the taskId field. To submit a request using partial mode, use a JSON request and include the following line in the header:

```
Update-Mode=PARTIAL
```

With this URI, you can use the following attributes in the `workflow` object:

**errorTaskEmail**

Optional.

Attribute that includes the following attributes in the taskEmail object:

**emails**

List of comma-separated email addresses that receive email notification when a task flow fails to complete.

**successTaskEmail**

Optional.

Attribute that includes the following attributes in the taskEmail object:

**emails**

List of comma-separated email addresses that receive email notification when a task flow completes successfully.

**warningTaskEmail**

Optional.

Attribute that includes the following attributes in the taskEmail object:

**emails**

List of comma-separated email addresses that receive email notification when a task flow completes with errors.

**name**

Name of the task flow.

**description**

Optional.

Description of the task flow.

**tasks**

Attribute that defines the tasks used in the workflow.

Use a workflowTask object to define the following attributes for each task you want to use:

**taskId**

Task ID.

**type**

Task type. Use one of the following codes:

- AVS. Contact validation task.
- DQA. Data assessment task.
- DRS. Data replication task.
- DSS. Data synchronization task.
- MTT. Mapping configuration task.
- PCS. PowerCenter task.

**name**
Task name.

**stopOnError**
Optional.

Stops the task flow if the task fails to complete. Use one of the following options:
- 1. True. Stop on error.
- 2. False. Do not stop on error.

**stopOnWarning**
Optional.

Stops the task flow if a task completes with warnings. Use one of the following options:
- 1. True. Stop on error.
- 2. False. Do not stop on error.

**scheduleId**
Optional.

Schedule for the task flow.

**POST Response**
If successful, returns the workflow response object for the task flow that you created or updated.

Returns the error object if errors occur.

**DELETE Request**
To delete a task flow, use the task flow ID in the following URI:

/api/v2/workflow/<id>

**DELETE Response**
Returns the 200 response code if the request is successful.

Returns the error object if errors occur.

**POST Example**
To update an existing task flow with an ID of 0000342J0000K, you might use the following request:

```json
POST <serverUrl>/api/v2/workflow/0000342J0000K HTTP/1.0
Content-Type: application/json
Accept: application/json
icSessionId: <icSessionId>

{
  "@type": "workflow",
  "name": "task flow",
  "tasks": [
    {
      "@type": "workflowTask",
      "taskId": "0000100100000000001G",
      "type": "DSS",
      "name": "DSS_DQ5",
      "stopOnError": "false"
    }
  ]
}
```
A successful request returns the workflow object that you updated.
REST API Codes and Supplemental Information

This section includes values used for state, country, and time zone attributes. This section also includes supplemental information such as connector data types and a mapping of connection REST API attributes to user interface fields.

REST API Codes

REST API Codes Overview

The Informatica Cloud REST API uses codes to represent data such as country names. Use the codes to pass information to the REST API and to interpret the data returned by the REST API.

The Informatica Cloud REST API uses codes for the following information:

- Country codes. Represent country names.
- State codes. Represent the names of the United States.
- Time zone codes. Represent time zones.

State Codes

The Informatica Cloud REST API uses the following codes to represent the names of the United States.

- AL. Alabama.
- AK. Alaska.
- AZ. Arizona.
- AR. Arkansas.
- CA. California.
- CO. Colorado.
- CT. Connecticut.
- DE. Delaware.
- FL. Florida.
• GA. Georgia.
• HI. Hawaii.
• ID. Idaho.
• IL. Illinois.
• IN. Indiana.
• IA. Iowa.
• KS. Kansas.
• KY. Kentucky.
• LA. Louisiana.
• ME. Maine.
• MD. Maryland.
• MA. Massachusetts.
• MI. Michigan.
• MN. Minnesota.
• MS. Mississippi.
• MO. Missouri.
• MT. Montana.
• NE. Nebraska.
• NV. Nevada.
• NH. New Hampshire.
• NJ. New Jersey.
• NM. New Mexico.
• NY. New York.
• NC. North Carolina.
• ND. North Dakota.
• OH. Ohio.
• OK. Oklahoma.
• OR. Oregon.
• PA. Pennsylvania.
• RI. Rhode Island.
• SC. South Carolina.
• SD. South Dakota.
• TN. Tennessee.
• TX. Texas.
• UT. Utah.
• VT. Vermont.
• VA. Virginia.
• WA. Washington.
• WV. West Virginia.
Country Codes

The Informatica Cloud REST API uses the following codes to represent country names.

- AF. Afghanistan.
- AX. Aland Islands.
- AL. Albania.
- DZ. Algeria.
- AS. American Samoa.
- AD. Andorra.
- AO. Angola.
- AI. Anguilla.
- AQ. Antarctica.
- AG. Antigua and Barbuda.
- AR. Argentina.
- AM. Armenia.
- AW. Aruba.
- AU. Australia.
- AT. Austria.
- AZ. Azerbaijan.
- BS. Bahamas.
- BH. Bahrain.
- BD. Bangladesh.
- BB. Barbados.
- BY. Belarus.
- BZ. Belize.
- BE. Belgium.
- BJ. Benin.
- BM. Bermuda.
- BT. Bhutan.
- BO. Bolivia.
- BA. Bosnia and Herzegovina.
- BW. Botswana.
- BV. Bouvet Island.
- BR. Brazil.
- IO. British Indian Ocean Territory.
- BN. Brunei Darussalam.
- BG. Bulgaria.
• BF. Burkina Faso.
• BI. Burundi.
• KH. Cambodia.
• CM. Cameroon.
• CA. Canada.
• CV. Cape Verde.
• KY. Cayman Islands.
• CF. Central African Republic.
• TD. Chad.
• CL. Chile.
• CN. China.
• CX. Christmas Island.
• CC. Cocos (Keeling) Islands.
• CO. Colombia.
• KM. Comoros.
• CG. Congo.
• CD. Congo, the Democratic Republic of the.
• CK. Cook Islands.
• CR. Costa Rica.
• CI. Cote d’Ivoire.
• HR. Croatia.
• CU. Cuba.
• CY. Cyprus.
• CZ. Czech Republic.
• DK. Denmark.
• DM. Dominica.
• DO. Dominican Republic.
• DJ. Djibouti.
• EC. Ecuador.
• EG. Egypt.
• SV. El Salvador.
• GQ. Equatorial Guinea.
• ER. Eritrea.
• EE. Estonia.
• ET. Ethiopia.
• FK. Falkland Islands (Malvinas).
• FO. Faroe Islands.
• FJ. Fiji.
• FI. Finland.
• FR. France.
• GF. French Guiana.
• PF. French Polynesia.
• TF. French Southern Territories.
• GA. Gabon.
• GM. Gambia.
• GE. Georgia.
• DE. Germany.
• GH. Ghana.
• Gl. Gibraltar.
• GR. Greece.
• GL. Greenland.
• GD. Grenada.
• GP. Guadeloupe.
• GU. Guam.
• GT. Guatemala.
• GG. Guernsey.
• GN. Guinea.
• GW. Guinea-Bissau.
• GY. Guyana.
• HT. Haiti.
• HM. Heard Island and McDonald Islands.
• HN. Honduras.
• HK. Hong Kong.
• HU. Hungary.
• IS. Iceland.
• IN. India.
• ID. Indonesia.
• IR. Iran, Islamic Republic of.
• IQ. Iraq.
• IE. Ireland.
• IL. Israel.
• IM. Isle of Man.
• IT. Italy.
• JM. Jamaica.
• JP. Japan.
• JE. Jersey.
• JO. Jordan.
• KZ. Kazakhstan.
• KE. Kenya.
• KL. Kiribati.
• KP. Korea, Democratic People’s Republic of.
• KR. Korea, Republic of.
• KW. Kuwait.
• KG. Kyrgyzstan.
• LA. Lao People’s Democratic Republic.
• LV. Latvia.
• LB. Lebanon.
• LS. Lesotho.
• LR. Liberia.
• LY. Libyan Arab Jamahiriya.
• LI. Liechtenstein.
• LT. Lithuania.
• LU. Luxembourg.
• MO. Macao.
• MK. Macedonia, the former Yugoslav Republic of.
• MG. Madagascar.
• MW. Malawi.
• MY. Malaysia.
• MV. Maldives.
• ML. Mali.
• MT. Malta.
• MH. Marshall Islands.
• MR. Mauritania.
• MU. Mauritius.
• MQ. Martinique.
• YT. Mayotte.
• MX. Mexico.
• FM. Micronesia, Federated States of.
• MD. Moldova, Republic of.
• MC. Monaco.
• MN. Mongolia.
• ME. Montenegro.
• MS. Montserrat.
• MA. Morocco.
• MZ. Mozambique.
• MM. Myanmar.
• NA. Namibia.
NR. Nauru.
NP. Nepal.
NL. Netherlands.
NC. New Caledonia.
NZ. New Zealand.
NI. Nicaragua.
NE. Niger.
NG. Nigeria.
NU. Niue.
NF. Norfolk Island.
MP. Northern Mariana Islands.
OM. Oman.
PK. Pakistan.
PW. Palau.
PS. Palestinian Territory, Occupied.
PA. Panama.
PG. Papua New Guinea.
PY. Paraguay.
PE. Peru.
PH. Philippines.
PN. Pitcairn.
PL. Poland.
PT. Portugal.
PR. Puerto Rico.
QA. Qatar.
RE. Reunion.
RO. Romania.
RU. Russian Federation.
RW. Rwanda.
BL. Saint Barthelemy.
SH. Saint Helena.
KN. Saint Kitts and Nevis.
LC. Saint Lucia.
MF. Saint Martin (French part).
PM. Saint Pierre and Miquelon.
VC. Saint Vincent and the Grenadines.
WS. Samoa.
SM. San Marino.
ST. Sao Tome and Principe.
• SA. Saudi Arabia.
• SN. Senegal.
• RS. Serbia.
• SC. Seychelles.
• SL. Sierra Leone.
• SG. Singapore.
• SK. Slovakia.
• SI. Slovenia.
• SB. Solomon Islands.
• SO. Somalia.
• ZA. South Africa.
• GS. South Georgia and the South Sandwich Islands.
• ES. Spain.
• LK. Sri Lanka.
• SD. Sudan.
• SR. Suriname.
• SJ. Svalbard and Jan Mayen.
• SZ. Swaziland.
• SY. Syrian Arab Republic.
• SE. Sweden.
• CH. Switzerland.
• TW. Taiwan.
• TJ. Tajikistan.
• TZ. Tanzania, United Republic of.
• TH. Thailand.
• TL. Timor-Leste.
• TG. Togo.
• TK. Tokelau.
• TO. Tonga.
• TT. Trinidad and Tobago.
• TN. Tunisia.
• TR. Turkey.
• TC. Turks and Caicos Islands.
• TM. Turkmenistan.
• TV. Tuvalu.
• UG. Uganda.
• UA. Ukraine.
• AE. United Arab Emirates.
• GB. United Kingdom.
• US. United States.
• UM. United States Minor Outlying Islands.
• UY. Uruguay.
• UZ. Uzbekistan.
• VU. Vanuatu.
• VA. Holy See (Vatican City State).
• VE. Venezuela.
• VN. Viet Nam.
• VG. Virgin Islands, British.
• VI. Virgin Islands, U.S.
• WF. Wallis and Futuna.
• EH. Western Sahara.
• YE. Yemen.
• ZM. Zambia.
• ZW. Zimbabwe.

Time Zone Codes

The Informatica Cloud REST API uses the following time zone codes:

• Pacific/Apia
• Pacific/Tahiti
• HST
• Pacific/Gambier
• AST
• America/Vancouver
• America/Tijuana
• America/Los_Angeles
• America/Phoenix
• America/Dawson_Creek
• America/Denver
• America/EL_Salvador
• America/Costa_Rica
• America/Mexico_City
• America/Chicago
• America/Jamaica
• America/Panama
• America/Montreal
• America/Havana
• America/New_York
• America/Barbados
• America/Bogota
• America/Caracas
• America/Dominica
• America/Guadeloupe
• America/La_Paz
• America/Puerto_Rico
• Brazil/Acre
• Brazil/DeNoronha
• Brazil/East
• Brazil/West
• America/Halifax
• CNT
• America/Buenos_Aires
• Atlantic/South_Georgia
• Atlantic/Cape_Verde
• Africa/Casablanca
• GMT
• Europe/London
• Europe/Vienna
• Europe/Brussels
• Europe/Zurich
• Europe/Prague
• Europe/Berlin
• Europe/Copenhagen
• Europe/Madrid
• Europe/Budapest
• Europe/Rome
• Europe/Luxembourg
• Europe/Amsterdam
• Europe/Warsaw
• Europe/Stockholm
• Europe/Belgrade
• Europe/Paris
• Africa/Johannesburg
• Africa/Cairo
• Europe/Athens
• Asia/Jerusalem
• Europe/Bucharest
• Europe/Istanbul
- Asia/Bahrain
- Africa/Nairobi
- Asia/Kuwait
- Asia/Qatar
- Asia/Riyadh
- Asia/Baghdad
- Europe/Moscow
- Asia/Dubai
- Indian/Mauritius
- Asia/Muscat
- Asia/Karachi
- IST
- Asia/Katmandu
- BST
- Asia/Rangoon
- VST
- Australia/Perth
- Asia/Hong_Kong
- Asia/Kuala_Lumpur
- Asia/Singapore
- CTT
- Asia/Seoul
- JST
- ACT
- AET
- Australia/Lord_Howe
- Asia/Magadan
- Pacific/Auckland
- Pacific/Norfolk
- Pacific/Fiji
- Pacific/Chatham
- Pacific/Enderbury
- Pacific/Kiritimati
Connector Data Types

When you submit a request for connector metadata, data type is included in the response. Data types for connector attributes are returned in REST API responses using a numeric value.

The following example shows a response with the type value of 2:

```json
{
    "name": "database",
    "label": ",",
    "id": ",",
    "value": ",",
    "type": 2,
    "isMandatory": true,
    "visible": false,
    "list": []
}
```

The type value of 2 means the database attribute can only contain alphabetic characters.

The following table lists the numeric values that might be included in the response and the corresponding data type:

<table>
<thead>
<tr>
<th>Value</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NUMERIC_TYPE</td>
<td>Attribute value can only contain numbers.</td>
</tr>
<tr>
<td>2</td>
<td>ALPHABET_TYPE</td>
<td>Attribute value can only contain alphabetic characters.</td>
</tr>
<tr>
<td>3</td>
<td>NUMERIC_TYPE/ALPHABET_TYPE</td>
<td>Attribute value can only contain numbers or alphabetic characters.</td>
</tr>
<tr>
<td>4</td>
<td>SYMBOLS_TYPE</td>
<td>Attribute value can only contain symbols.</td>
</tr>
<tr>
<td>5</td>
<td>NUMERIC_TYPE/SYMBOLS_TYPE</td>
<td>Attribute value can only contain numbers and symbols.</td>
</tr>
<tr>
<td>6</td>
<td>ALPHABET_TYPE/SYMBOLS_TYPE</td>
<td>Attribute value can only contain alphabetic characters and symbols.</td>
</tr>
<tr>
<td>7</td>
<td>NUMERIC_TYPE/ALPHABET_TYPE/SYMBOLS_TYPE</td>
<td>Attribute value can only contain alphabetic characters, numbers, and symbols.</td>
</tr>
<tr>
<td>8</td>
<td>LIST_TYPE</td>
<td>Attribute value can only contain values from a predefined list.</td>
</tr>
<tr>
<td>9</td>
<td>NUMERIC_TYPE/LIST_TYPE</td>
<td>Attribute value can only contain values from a predefined list and the value contains only numbers.</td>
</tr>
<tr>
<td>10</td>
<td>ALPHABET_TYPE/LIST_TYPE</td>
<td>Attribute value can only contain values from a predefined list and the value contains only numbers.</td>
</tr>
<tr>
<td>11</td>
<td>NUMERIC_TYPE/ALPHABET_TYPE/LIST_TYPE</td>
<td>Attribute value can only contain values from a predefined list and the value contains only alphabetic characters and numbers.</td>
</tr>
<tr>
<td>12</td>
<td>SYMBOLS_TYPE/LIST_TYPE</td>
<td>Attribute value can only contain values from a predefined list and the value contains only symbols.</td>
</tr>
</tbody>
</table>
### Connection User Interface Fields to REST API Attributes Mapping

Some connection field names in the user interface do not intuitively map to corresponding REST API attribute names in the connection resource. Additionally, some attribute names used for REST API GET and POST methods for the connection resource do not match the attribute names used in the REST API response that populates the values shown in the user interface.

The following tables map user interface fields with attributes used for REST API GET and POST calls and the REST API response to the user interface, where the correlation between these fields might be confusing.

<table>
<thead>
<tr>
<th>Connection</th>
<th>UI Field Name</th>
<th>REST API GET and POST Attribute Name</th>
<th>Response to UI Attribute Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>All connections</td>
<td>Runtime Environment</td>
<td>runtimeEnvironmentId</td>
<td>agentGroupId</td>
</tr>
<tr>
<td>CSV Flat File</td>
<td>Directory</td>
<td>database</td>
<td>dirName</td>
</tr>
<tr>
<td>FTP and SFTP</td>
<td>Directory</td>
<td>database</td>
<td>dirName</td>
</tr>
<tr>
<td>Microsoft Access</td>
<td>Data Source Name</td>
<td>database</td>
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