Informatica®

Informatica® Cloud Data Integration

JIRA Cloud Connector

Informatica Cloud Data Integration JIRA Cloud Connector
October 2022

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Preface

Use *JIRA Cloud Connector* to learn how to read from or write to the JIRA web service application by using Cloud Data Integration. Learn to create a connection, develop mappings, and run mapping tasks in Cloud Data Integration.

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CHAPTER 1

Introduction to JIRA Cloud Connector

This chapter includes the following topics:

- JIRA Cloud Connector Overview, 6
- JIRA Cloud Connector Supported Tasks and Object Types, 7

JIRA Cloud Connector Overview

You can use JIRA Cloud Connector to connect to JIRA Cloud from Data Integration. You can use JIRA Cloud Connector on Windows and Linux operating systems.

Use JIRA Cloud Connector to securely read data from or write data to JIRA Cloud. You can use JIRA Cloud objects as sources and targets in mappings and mapping tasks.

You can switch mappings to advanced mode to include transformations and functions that enable advanced functionality.

Use JIRA Cloud Connector to interact with JIRA web service application, which supports REST API. You can use JIRA Cloud Connector in a midstream in a Web Services transformation.

You can use JIRA Cloud Connector midstream in a mapping to pass a single or multiple requests to the JIRA web service application and process the response data. You can also pass data obtained from multiple transformations in the mapping pipeline and process the data.

When you use JIRA Cloud Connector midstream in a mapping, you first create a business service for the operation that you want to perform in the JIRA web service application. You then associate the business service in the Web Services transformation midstream in a mapping to read data from or write data to the web service application. For example, you can use JIRA Cloud Connector as a midstream transformation to perform PUT operation on the JIRA web service application.

Use JIRA Query Language (JQL) to build structured queries to search issues and attachments in JIRA.

JIRA Cloud Connector Supported Tasks and Object Types

The following table lists the objects, tasks, and transformation types that JIRA Cloud Connector supports:

Task Type	Transformation Type	Object
Mapping Task	Source, Target, and Midstream	GET_ISSUES
		POST_ISSUES
		PUT_ISSUES
		DELETE_ISSUES
		GET_ATTACHMENT
		POST_ATTACHMENT
		DELETE_ATTACHMENT

CHAPTER 2

JIRA Cloud Connections

This chapter includes the following topics:

- JIRA Cloud Connection Overview, 8
- JIRA Cloud connection properties, 8

JIRA Cloud Connection Overview

Create a JIRA Cloud connection to connect to JIRA Cloud so that the agent can read data from and write data to JIRA Cloud. You can use JIRA Cloud connections to specify sources and targets in mappings and mapping tasks.

You can create a JIRA Cloud connection to make calls to the JIRA web service application by using midstream transformation.

You create a JIRA Cloud connection on the **Connections** page. Use the connection when you create a mapping or mapping task.

JIRA Cloud connection properties

When you set up a JIRA Cloud connection, you must configure the connection properties.

The following table describes the JIRA Cloud connection properties:

Connection property	Description
Connection Name	Name of the JIRA Cloud connection.
Description	Description of the JIRA Cloud connection.
Type	Type of connection. Select JiraCloud (Informatica) from the list.
Runtime Environment	The name of the runtime environment where you want to run the tasks. Select a Secure Agent.
Authentication	Authentication type for the connection. Select JiraCloud.

Connection property	Description
URI	The base JIRA URI of JIRA instance to connect. For example, `https://abcd.atlassian.net`.
Username	User name for the JIRA account.
Password	The API token for the JIRA account. For more information on how to create an API token, see https://kb.informatica.com/solution/23/Pages/70/576517.aspx.

CHAPTER 3

Mappings and Mapping Tasks with JIRA Cloud Connector

Use the Data Integration Mapping Designer to create a mapping. When you create a mapping, you configure a source or target to represent the object.

In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

JIRA Cloud Sources in Mappings

In a mapping, you can configure a Source transformation to represent a JIRA Cloud source.

The following table describes the JIRA Cloud source properties that you can configure in a Source transformation:

Property	Description
Connection	Name of the source connection.
Operation	Source operation. Select the source operation.
Request Message	A JSON request message for the operation that you want to perform in JIRA Cloud. Specify the data that you want to enter into the data flow.

The following table describes the advanced properties that you can configure in a Source transformation:

Advanced Property	Description
Tracing Level	Amount of detail that appears in the log for the source transformation. Use one of the following tracing levels: - Terse - Normal - Verbose Initialization - Verbose Data Default is Normal.
Cache Size for Web Service Response (KB)	Memory available for the web service response. If the web service response contains many rows or columns, you can increase the cache size. Default is 1024 KB.

JIRA Cloud Targets in Mappings

In a mapping, you can configure a target transformation to represent a JIRA Cloud target.

The following table describes the JIRA Cloud target properties that you can configure in a Target transformation:

Property	Description
Connection	Name of the target connection.
Operation	Target operation. Select the target operation.

The following table describes the advanced properties that you can configure in a Target transformation:

Advanced Property	Description
Cache Size for Web Service Request (KB)	Memory available for the web service request. If the web service request contains many rows or columns, you can increase the cache size. Default is 1024.
Transaction Commit Control	Control to commit or roll back transactions based on the set of rows that pass through the transformation. Use the transaction commit control if you have a large amount of data and you want to control how it is processed.

JIRA Cloud Midstream Transformation in Mappings

Before you configure a midstream transformation, you must create a business service from the **Configure** tab. You must select a JIRA Cloud connection and an operation when you create a business service.

When you configure the midstream transformation, select the business service and the operation on the **Web Service** tab.

You can map the incoming fields from source file to elements in request structure on the **Request Mapping** tab.

You can view the response structure on the **Response Mapping** tab. When you map the elements from the response structure to the output fields, the Secure Agent creates the output groups, along with the primary and foreign keys for the field names.

Advanced Midstream Properties

The following table describes the advanced properties that you can configure for a midstream transformation:

Property	Description
Cache Size for Web Service Request (KB)	Memory available for the web service request. If the request is more than 100 KB, you can increase the cache size. Default is 100 KB.
Cache Size for Web Service Response (KB)	Memory available for the web service response. If the web service response contains many rows or columns, you might want to increase the cache size. Default is 100 KB.
Allow Input Flush	Not applicable.
Transaction Commit Control	Not applicable.

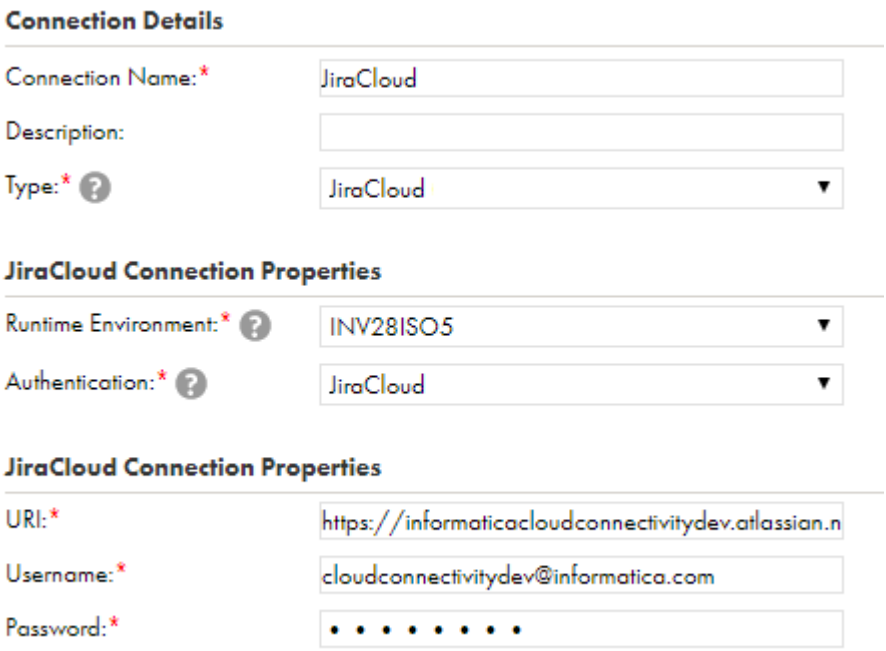
JIRA Cloud Midstream Transformation Mapping Example

You are a project manager and you want to retrieve details of all the bugs for your project.

To retrieve the bug details for your project from JIRA and to write the bug details to a flat file, perform the following tasks:

1. Create a JIRA Cloud connection to read data from JIRA.

   The following image shows the configured JIRA Cloud connection:



2. Create a business service to associate the JIRA Cloud connection and an operation.

The following image shows the configured business service:

Business Service Details

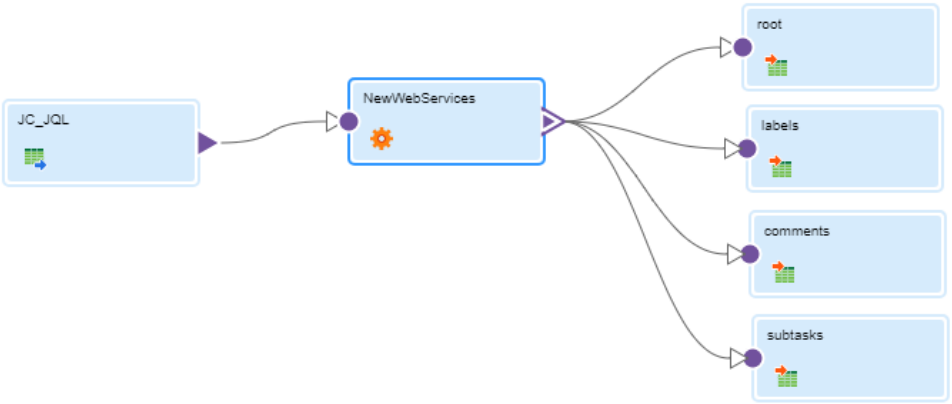
Name:	jiracloud_midstream_win
Location:*	Default
Description:	
Connection:	JiraCloud
Created On:	Nov 27, 2017 4:23:30 AM
Updated On:	Nov 27, 2017 4:23:30 AM
Created By:	cloudoemlabs@gmail.com
Updated By:	cloudoemlabs@gmail.com

Operations

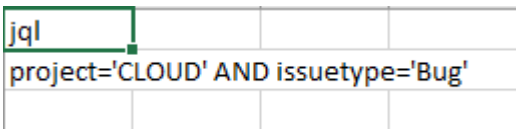
Name	Origin Name	Description
GET_ISSUES	GET_ISSUES	

3. Create a JIRA Cloud mapping.
4. Add a Web Services transformation. Specify a name and description in the general properties.

   The following image shows the source, web service, and target in the JIRA Cloud mapping:



   The following image shows the .csv source file with the JQL query, which enables you to read all the bugs for the CLOUD project:



5. On the **Web Service** tab, select the business service and the operation that you configured.

The following image shows the configured web service:



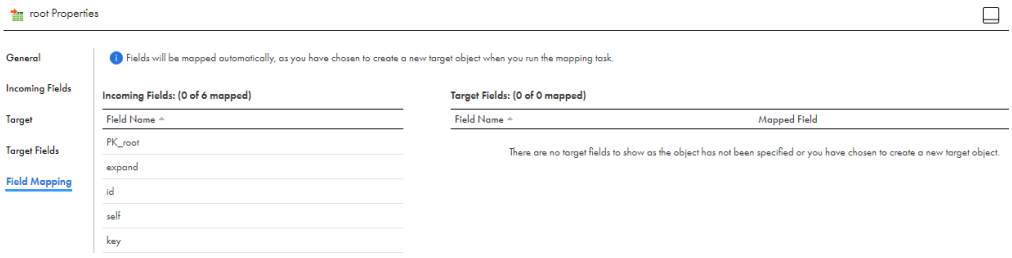
6. On the **Request Mapping** tab, map the incoming fields from the source to the elements of Request Structure to form a web service request:

   The following image shows the fields that you map:



7. On the **Response Mapping** tab, select the jira details fields that you want to write to the target file on the **Response Structure**.
8. On the **Advanced** tab, specify the cache size details.

   The fields that you select from the **Response Structure** of the Web Service transformation appear as incoming fields for the target object.
9. If required, map the incoming fields to the flat file fields.



10. Click **Task Wizards** > **Mapping Task**, and select the mapping for the task.

11. When you save and run the mapping, the Secure Agent retrieves the details for the jira that you map on the **Request Mapping** tab from JIRA and writes the data to the corresponding flat files.

    The following image shows the jira details that the Secure Agent writes to the root target based on the fields you mapped in the Mapping Configuration task:

PK_root	expand	id	self	key	self1	id1
1	operations,versionedRe	83558	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83558	CLOUD-67	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
3	operations,versionedRe	83553	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83553	CLOUD-62	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
5	operations,versionedRe	83548	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83548	CLOUD-57	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
8	operations,versionedRe	83547	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83547	CLOUD-56	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
11	operations,versionedRe	83546	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83546	CLOUD-55	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
14	operations,versionedRe	83545	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83545	CLOUD-54	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
17	operations,versionedRe	83544	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83544	CLOUD-53	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
20	operations,versionedRe	83543	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83543	CLOUD-52	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
23	operations,versionedRe	83542	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83542	CLOUD-51	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
26	operations,versionedRe	83541	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83541	CLOUD-50	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
29	operations,versionedRe	83540	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83540	CLOUD-49	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
32	operations,versionedRe	83539	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83539	CLOUD-48	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
34	operations,versionedRe	83538	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83538	CLOUD-47	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
36	operations,versionedRe	83537	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83537	CLOUD-46	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
38	operations,versionedRe	83536	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83536	CLOUD-45	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003
40	operations,versionedRe	83535	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83535	CLOUD-44	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issuetype/10003	10003

    The following image shows the jira details that the Secure Agent writes to the labels target:

FK_root	labels	jql
3	labelcreate1	project='CLOUD' AND issuetype='Bug'
6	label1	project='CLOUD' AND issuetype='Bug'
6	label2	project='CLOUD' AND issuetype='Bug'
6	label3	project='CLOUD' AND issuetype='Bug'
12	label1	project='CLOUD' AND issuetype='Bug'
12	label2	project='CLOUD' AND issuetype='Bug'
12	label3	project='CLOUD' AND issuetype='Bug'
18	label1	project='CLOUD' AND issuetype='Bug'
18	label2	project='CLOUD' AND issuetype='Bug'
18	label3	project='CLOUD' AND issuetype='Bug'
24	label1	project='CLOUD' AND issuetype='Bug'
24	label2	project='CLOUD' AND issuetype='Bug'
24	label3	project='CLOUD' AND issuetype='Bug'

    The following image shows the jira details that the Secure Agent writes to the comments target:

FK_root	self15	id14	self16	name11	key5	accountId	emailAddress	_48x481	_24x241	_16x161	_32x321	displayNa
74	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83513/comment/11811	11811	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
84	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83508/comment/11805	11805	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
84	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83508/comment/11806	11806	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
92	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83506/comment/11801	11801	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
92	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83506/comment/11802	11802	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
92	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83506/comment/11812	11812	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
118	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83500/comment/11803	11803	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
118	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83500/comment/11804	11804	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic
118	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83500/comment/11810	11810	https://in	admin	admin	557058:4098a3f	cloudconnectivi	https://av	https://av	https://av	https://av	Informatic

    The following image shows the jira details that the Secure Agent writes to the subtasks target:

FK_root	id15	key7	self18	summary1	self19	descrip	iconUrl6	name13
92	83518	CLOUD-27	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/issue/83518	Sub-task for CLOUD-15	https://informaticacloudconnectivitydev.atlassian.net/rest/api/2/status/10000		https://in	To Do

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