Informatica® Cloud Data Integration

JIRA Connector

Informatica Cloud Data Integration JIRA Connector
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Preface

Use *JIRA Connector* to learn how to read from or write to JIRA by using Cloud Data Integration. Learn to create a connection and run synchronization and mapping tasks in Cloud Data Integration.

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CHAPTER 1

Introduction to JIRA Connector

Use JIRA Connector to connect to JIRA, read data, and write data to applications, such as Salesforce, flatfile, and databases. You can also read data from other applications and write to JIRA. You can create custom fields in JIRA. You can use Jira Connector to read the custom attributes that are present in an object.

You can use JIRA Connector to read and write JIRA issues and to filter all the fields that JIRA Rest API supports. JIRA Connector supports the Contains operator.

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

JIRA Connector supported objects and task operations

The following table lists the object types and the task operations that JIRA Connector supports:

Objects	Read	Data Preview	Lookup
Projects/Issues	Yes	Yes	Yes
Projects/Attachment	Yes	Yes	Yes
Projects/Comments	Yes	Yes	Yes
Projects/LinkedIssues	Yes	Yes	Yes
Components	Yes	Yes	Yes
Projects/FixVersions	Yes	Yes	Yes
Projects/Watchers	Yes	Yes	Yes
Projects/AffectsVersion	Yes	Yes	Yes
Projects/Components	Yes	Yes	Yes

In JIRA Connector, you can use special characters in the Project field.

JIRA Connector assets

Create assets in Data Integration to integrate data using JIRA Connector.

When you use JIRA Connector, you can include the following Data Integration assets:

- Mapping
- Mapping task

For more information about configuring assets and transformations, see *Mappings*, *Transformations*, and *Tasks* in the Data Integration documentation.

CHAPTER 2

Connections for Jira

Create a JIRA connection to connect to JIRA so that you can read data from and write data to JIRA. You can use the JIRA connection to specify source or target objects in synchronization tasks, mappings, and mapping tasks.

Connect to Jira

Let's configure the JIRA connection properties to connect to JIRA.

Before you begin

Before you configure a connection, you'll need to get the user name, password, and the base URL from your Jira account.

The following video shows you how to get the information you need:

Connection details

The following table describes the basic connection properties:

Property	Description
Connection Name	Name of the connection. Each connection name must be unique within the organization. Connection names can contain alphanumeric characters, spaces, and the following special characters: _ . + -, Maximum length is 255 characters.
Description	Description of the connection. Maximum length is 4000 characters.
Type	Jira

Property	Description
Runtime Environment	The name of the runtime environment where you want to run tasks. Select a Secure Agent, Hosted Agent, or serverless runtime environment. Hosted Agent doesn't apply to mappings in advanced mode.
Username	User name of the JIRA account.
Password	Password of the JIRA account.
URI	The base URL of your Jira instance. For example, if your JIRA instance is hosted at mycompany.atlassian.net, the URI is https://mycompany.atlassian.net/.

Advanced settings

The following table describes the advanced connection properties:

Property	Description
UTC Offset	Appends the Coordinated Universal Time (UTC) to your datetime field to represent the time in your time zone. Select the UTC offset from the list based on your time zone. The adjustment to UTC yields the local time based on your region. UTC is expressed as UTC±, with a plus sign (+) that indicates time ahead of UTC and a minus sign (-) indicates time behind UTC. For instance, if your location is 5 hours ahead of UTC, select UTC+5. If your location is 3 hours behind UTC, select UTC-3. Default is UTC.
Enable Logging	Enables logging for the connector. Select the checkbox to enable logging when you create a connection, and use the connection to import metadata and run tasks. You can access the connection and design time logs in the Tomcat in the following location: `<Secure Agent installation directory>\apps\Data_Integration_Server\logs\tomcat` For the runtime logs, see the session log in the **My Jobs** page.

CHAPTER 3

Synchronization Tasks with JIRA Connector

This chapter includes the following topics:

Creating a Synchronization Task

Create a JIRA connection before you create a synchronization task.

1. In Data Integration, click **New** > **Tasks**.

2. Select **Synchronization Task**, and click **Create**.

   The New Synchronization Task page appears.

3. Specify the task name, provide a description, and select the Insert task operation.

4. Click **Next**.

   The **Source** tab appears.

5. Select the source **Connection**, **Source Type**, and **Source Objects** for the task.

6. Click **Next**.

   The **Target** tab appears.

7. Select the target connection and target object.

8. Click **Next**.

   The **Data Filters** tab appears.

9. To assign filters to the synchronization task, see "Configure the Data Filter" on page 12.

10. Configure the data filter, and click **Next**.

11. On the **Field Mapping** tab, enter JIRA projectkey in the Project field, while performing insert, update and delete operations into JIRA application for any project object.

12. Click **Next**.

The **Schedule** tab appears.

13. In the advance Source properties, use the read time out attribute to specify the maximum number of milliseconds that the connector waits to connect to JIRA. You can use the Retry Count attribute to specify the number of times to reconnect to JIRA. If the response code is other than 200 or the read time out is achieved, the connector attempts to reconnect to JIRA.

14. Schedule the task according to the requirement and save. If you do not want to schedule the task, click **Save** to save the task.

Rules and Guidelines for Synchronization Task

Consider the following guidelines to configure a synchronization task:

- The fields in the synchronization task must not contain duplicate names.
- The field names can have a maximum length of 65 characters.
- You need to create separate synchronization tasks for child objects, such as comments, attachments, and linked issues.
- You cannot use array data type fields.
- You cannot use custom data types for JIRA plugin custom fields. You can only use standard data types for JIRA plugin custom fields.
  You can use the following standard data types:

  - com.atlassian.jira.plugin.system.customfieldtypes:cascadingselect

  - com.atlassian.jira.plugin.system.customfieldtypes:datepicker

  - com.atlassian.jira.plugin.system.customfieldtypes:datetime

  - com.atlassian.jira.plugin.system.customfieldtypes:textarea

  - com.atlassian.jira.plugin.system.customfieldtypes:grouppicker

  - com.atlassian.jira.plugin.system.customfieldtypes:labels

  - com.atlassian.jira.plugin.system.customfieldtypes:multigrouppicker

  - com.atlassian.jira.plugin.system.customfieldtypes:multiselect

  - com.atlassian.jira.plugin.system.customfieldtypes:multiuserpicker

  - com.atlassian.jira.plugin.system.customfieldtypes:float

  - com.atlassian.jira.plugin.system.customfieldtypes:project

  - com.atlassian.jira.plugin.system.customfieldtypes:radiobuttons

  - com.atlassian.jira.plugin.system.customfieldtypes:select

  - com.atlassian.jira.plugin.system.customfieldtypes:version

  - com.atlassian.jira.plugin.system.customfieldtypes:textfield

  - com.atlassian.jira.plugin.system.customfieldtypes:url

  - com.atlassian.jira.plugin.system.customfieldtypes:userpicker

  - com.atlassian.jira.plugin.system.customfieldtypes:multiversion

  - com.atlassian.jira.plugin.system.customfieldtypes:readonlyfield

  - com.atlassian.jira.plugin.system.customfieldtypes:multicheckboxes

  - com.atlassian.jira.plugin.system.customfieldtypes:importid

Configure the Data Filter

You can use data filters to fetch specific data of a particular object. The synchronization task processes the data based on the filter field assigned to the object.

1. In the synchronization task, select **Data Filters** tab.

   The **Data Filters** tab appears.

2. Click **New**.

   The Data Filter dialog box appears.

3. Specify the following details:

Field Type	Description
Object	Object for which you want to assign filter fields.
Filter By	Lists all filter fields. Select the filter field.
Operator	Functional operator. Select the corresponding operator.
Filter Value	Specific filter value. Enter the filter value.

4. Click **OK**.

Rules and Guidelines for Data Filters

Consider the following rules and guidelines to configure data filters when you use JIRA Connector:

- You can filter only those fields that the JIRA REST APIs support.

- Data Filters does not filter the array data type fields.

- In basic filters, encode the special characters in the search string with relevant JIRA escape sequences.

- You cannot filter the project field. It is automatically embedded in the query based on the selected source object.

- Basic filter has time zone support for all datetime fields. You can select the time zone on the Connections page.

  Note: If an existing task has datetime fields in a filter, JIRA Connector applies the default time zone for the datetime fields. If you change the time zone in the Connections page, refresh the existing tasks to update the time zone.

- You can use all the filter fields that are available in JIRA. You also have the option of creating custom fields in your JIRA application.

Configure an Advanced Data Filter

Use the Advanced Data Filter to execute search queries that contains complex filter expressions. Advanced data filter operation functions similarly to the Advanced Filter operation in JIRA Application.JIRA Application uses the same syntax which the connector uses.

1. In **Data Filter** dialog box, click **Advanced**.

   The **Advanced Data Filter** dialog box appears.
2. Enter the **Filter Expression**.
3. Click **OK**.

Rules and Guidelines for Advanced Filters

Consider the following guidelines to configure advanced filters in JIRA Connector:

- You can filter all the fields that JIRA advanced search supports.
- JIRA advanced filters does not support $LastRunTime command.
- You must select the **Advanced Data Filter** option to select fields that contain space characters to be used in filters. Enclose the field name in double quotes. For example, in JIRA advance search , "Group Picker" = JIRA-Administrators.
- Mention the project field when you select __ALL_PROJECTS object type.
- Do not mention the Project field in the filter Expression for other object types. The connector affixes the project field internally.
- Advanced filter does not support time zone for datetime fields.

Configuring the Field Length

The following fields, **field length** can be configured using `jirafields.ini` file:

- Comments
- Description
- Environment
- File Size
- Standard Custom field text area (Free text)

Configure the custom fields in the `jirafields.ini` file located in the following directories:

- `<Secure Agent installation directory>\downloads\<latest connector zip package>\package \plugins\<Plugin ID>\`
- `<Secure Agent installation directory>\downloads\<latest connector zip package>\package \rdtm\javalib\<Plugin ID>\`

Troubleshooting a Synchronization Task

If you configure a synchronization task that is not valid, a NULL error message appears. The null error message files are saved in specific location.

For example, `<Secure Agent installation directory>\apps\Data_Integration_Server\<latest version of connector>\ICS\main\tomcat\log`

The log and exception details of a failed synchronization task are captured under the Session Log. You require special permission privileges to run the application in debug mode.

CHAPTER 4

Mappings and mapping tasks with JIRA Connector

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

Validate the mapping and describe the flow of data from source and target along with the required transformations before the Secure Agent reads data from or writes data to the JIRA object. Use the Mapping Task wizard to create a mapping task and select the mapping that you configured. The mapping task processes data based on the data flow logic you define in the mapping. Run the mapping task to read data from or write data to a JIRA object.

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

JIRA sources in mappings

When you create a mapping, you can configure the source properties to use JIRA objects to read the data from your JIRA account. The source properties appear on the **Source** tab when you specify a JIRA connection.

The following table describes the JIRA source properties.

Source Property	Description
Connection Type	Name of the JIRA source connection.
Source Type	Select **Single** or **Multiple** as the source type. Select **Single** to read data from a standard JIRA object. Select **Multiple** to read data from a standard JIRA object and add a single child object.
Source Object	Select the JIRA source object for the task.

The following table describes the query options that you can configure in a Source transformation:

Property	Description
Filter	Filter value in a read operation. Click **Configure** to add conditions to filter records and reduce the number of rows that the Secure Agent reads from the source. Select **Not Parameterized** filter condition and use a basic filter to specify the object, field, operator, and value to select specific records. You can use advanced filters to execute search queries that contain complex filter expressions. For more information, see "Rules and Guidelines for Data Filters" on page 12 and "Rules and Guidelines for Advanced Filters" on page 13.
Sort	Not applicable.

The following table describes the advanced properties that you configure for a JIRA source object:

Property	Description
Source Filter	The filter to be applied when you query an entity.
Sorted Ports	The ports used to sort the source data.
Maximum Page Size	The maximum number of records read from JIRA in a page.
Read Time Out	The timeout value in milliseconds for a read operation. For example, 1000 milliseconds
Read Retry Count	The retry value for a read operation.

JIRA targets in mappings

When you configure a mapping, you can use JIRA Connector as a target connection to write data to your JIRA account. The target properties appear on the **Target** tab when you specify a JIRA connection.

The following table describes the JIRA target properties:

Target Property	Description
Connection	Name of the JIRA target connection.
Target Type	Select **Single** or **Multiple** as the target type. Select **Single** to write data to a standard JIRA object. Select **Multiple** to write data to a standard JIRA object and add a single child object.
Object	Select the target object for the task.
Operation	Select the target operation. You can perform insert, update, and delete operations with JIRA Connector.

Note: The advanced properties are not applicable for a JIRA target.

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