Informatica

Informatica® Cloud Data Integration

Business 360 Events Connector

Informatica Cloud Data Integration Business 360 Events Connector
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CHAPTER 1

Introduction to Business 360 Events Connector

You can use Business 360 Events Connector to publish events from Business 360 applications to targets that Cloud Data Integration supports, such as Kafka, Amazon S3, and flat files. You can publish events that are related to actions on business entity records, such as create, update, and delete.

You can create a Business 360 Events connection and use the connection in mappings. When you run a Business 360 Events mapping or mapping task, the Business 360 Events connector publishes events to a Data Integration target.

Business 360 Events Connector example

The sales consultants in your organization add , edit, and delete information about customers in a Business 360 application. You want the Business 360 application to be the source of truth and want to publish these events to an external target for further processing and consumption. You use the Business 360 Events Connector to publish these events to an external target.

To publish events to an external target, you configure a publishing event in the Business 360 Console. When sales consultants add, edit, or delete information about customers, these actions trigger publishing events. You also create a mapping to connect the source of the events to the target for the events. You can then run the mapping tasks, which use the Business 360 Events Connector to publish the events to the external target.

Business 360 Events Connector assets and transformations

You can create Data Integration assets and add transformations for Business 360 Events connection to publish events from Business 360 applications to external targets.

Use the Business 360 Events Connector to publish events related to the business entity records in business applications.

You can include source and target transformations in the following Data Integration assets:

- Mapping
- Mapping task

For more information about configuring mappings and mapping tasks, see *Tasks* in the Data Integration documentation.

Note: Ensure that you have the license for your business application.

CHAPTER 2

Getting Started with Business 360 Events Connector

Before you create a connection and run assets with Business 360 Events Connector, complete the prerequisite tasks.

Depending on your requirement, perform the following tasks:

- Enable license for Business 360 Events Connector.
- If your organization uses an outgoing proxy server to connect to the internet, configure the Secure Agent to use the proxy server.
- Configure prerequisites to increase the Java heap space, process bulk data, log large records, and stage data using a flat file or a custom temporary directory.

Before you begin

Read What's New to find out what's new.

Read the Release Notes about known and fixed limitations in Cloud Data Integration and Cloud Data Integration Connectors.

Find What's New and Release Notes on the Informatica documentation portal or the Data Integration help.

Enable license for Business 360 Events Connector

Before you create or use a Business 360 Events connection, enable a license for the Business 360 Events Connector.

1. Log in to Informatica Intelligent Cloud Services with your administrator credentials.
2. Select **Administrator** from the **My Services** page.
3. Click **Organization > Sub-Organizations**.
4. Select the sub-organization for which you want to enable the Business 360 Events Connector.
5. Click **Licenses**.
6. In the **Editions** section, enable the license for the Business 360 Events Connector.

Note: Business 360 Events Connector is included in the Intelligent Components for Business 360 Events license package. You cannot create or access the Business 360 Events connection if a license isn't enabled.

Configure proxy settings

If your organization uses an outgoing proxy server to connect to the internet, the Secure Agent connects to Informatica Intelligent Cloud Services through the proxy server.

You can configure the Secure Agent to use the proxy server on Windows and Linux.

1. Configure the Secure Agent through the Secure Agent Manager on Windows or shell command on Linux.
2. Configure the JVM options for the DTM in the Secure Agent properties so that the agent can use the proxy server at run time.
3. Alternatively, configure the proxy server properties in the additional JDBC URL parameters in the Business 360 Events connection.

Contact your network administrator for the correct proxy settings.

Configure proxy server settings on Windows

When you configure the proxy server on a Windows machine, configure the Secure Agent both through the Secure Agent Manager and the JVM options in the DTM.

Configure proxy server settings through the Secure Agent Manager

Use the Secure Agent Manager to configure the Secure Agent to use the proxy server on Windows.

1. In the Secure Agent Manager, click **Proxy**.
2. To enter proxy server settings, click **Use a proxy server**.
3. Configure the following fields:

Field	Description
Proxy Host	Required. Host name of the outgoing proxy server that the Secure Agent uses.
Proxy Port	Required. Port number of the outgoing proxy server.
User Name	Required. User name to connect to the outgoing proxy server.
Password	Required. Password to connect to the outgoing proxy server.

4. Click **OK**.
   The Secure Agent Manager restarts the Secure Agent to apply the settings.

Configure proxy server settings through the JVM options in DTM

Configure the JVM options for the DTM in the Secure Agent properties to use the proxy server at run time.

1. Log in to Informatica Intelligent Cloud Services.
2. Open Administrator, and select **Runtime Environments**.

3. Select the Secure Agent for which you want to configure a proxy server.
4. On the upper-right corner of the page, click **Edit**.
5. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Server.
6. Add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:
   ```
   JVMOption1= -Dhttps.proxySet=True
   JVMOption2= -Dhttps.proxyHost=<proxy_server_hostname>
   JVMOption3= -Dhttps.proxyPort=<proxy_server_portnumber>
   JVMOption4= -Dhttps.proxyUser=<user name>
   JVMOption5= -Dhttps.proxyPassword=<password>
   ```
7. Click **Save**.
   The Data Integration Server restarts to apply the settings.

Configure proxy server settings on Linux

Configure the Secure Agent to use the proxy server on a Linux machine using both the shell command and the JVM options in the DTM.

Configure proxy server settings through the shell command

Use the shell command to configure proxy server settings for the Secure Agent on a Linux machine.

1. Navigate to the following directory:
   ```
   <Secure Agent installation directory>/apps/agentcore/
   ```
2. Run the following command:
   ```
   ./consoleAgentManager.sh configureProxy <proxy host> <proxy port> <user name> <password>
   ```
3. Restart the Secure Agent.

Configure proxy server settings through the JVM options

Configure the JVM options of the DTM in the Secure Agent properties to use the proxy server at run time.

1. Log in to Informatica Intelligent Cloud Services.
2. Open Administrator, and select **Runtime Environments**.
3. Select the Secure Agent for which you want to configure the proxy server.
4. On the upper-right corner of the page, click **Edit**.
5. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Server.
6. Add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:
   ```
   JVMOption1= -Dhttps.proxySet=True
   JVMOption2= -Dhttps.proxyHost= <proxy_server_hostname>
   JVMOption3= -Dhttps.proxyPort=<proxy_server_portnumber>
   JVMOption4= -Dhttps.proxyUser=<user name>
   JVMOption5= -Dhttps.proxyPassword=<password>
   ```
7. Click **Save**.
   The Data Integration Server restarts to apply the settings.

Configure JVM memory requirements

Specify the Java heap size as *-Xmx256m* in the Secure Agent properties. If you already configured a heap size value that is higher than 256 MB in the JVM options for the Secure Agent, do not change it.

Note: If the Java heap size is less than 256 MB, mappings and mapping tasks that read events from Business 360 applications might fail with the following error: `Error - [FATAL] The Secure Agent failed to read data from the source because of the following error: JDBC driver internal error: exception creating result.`

Perform the following steps to configure the JVM memory:

1. In Administrator, select the Secure Agent listed on the **Runtime Environments** tab.
2. Click **Edit**.
3. In the **System Configuration Details** section, select **Data Integration Service** as the service and **DTM** as the type.
4. Edit the **JVMOption1** property, and enter *-Xmx256m*.
5. Click **Save**.

Set up for publishing business events

To set up for publishing business events, complete the following tasks:

1. In Business 360 Console, define a publishing event. For more information about defining a publishing event, see Define Business Events in the Business 360 Console help.
2. In Administrator, specify a Secure Agent that is up and running as the runtime environment to run a mapping task. For more information about Secure Agent, see Runtime environments in the Administrator help.
3. In Administrator, create a Business 360 Events connection to read events from a Business 360 application and a target connection to publish events to an external target. For more information about creating connections, see Configuring a connection in the Administrator help.
4. In Cloud Data Integration, create a mapping with the Business 360 Events connection as the source transformation and the target connection as the target transformation. Ensure that you create the in-out parameters `startAtTimestamp` and `endAtTimestamp` in the Parameters panel. For more information about creating a mapping, see Mapping configuration in the Cloud Data Integration help.

   Note: The name of the in-out parameter is case sensitive.
5. In Cloud Data Integration, create a mapping task by selecting the runtime environment and adding the mapping that you create. For more information about configuring a mapping task, see Mapping task configuration in the Cloud Data Integration help.
6. In Cloud Data Integration, create the required taskflows. Publish the taskflows to use in your business events publishing job. For more information about creating taskflows, see Creating a taskflow in the Cloud Data Integration help.
7. In Business 360 Console, define a business events publishing job. For more information about defining a business events publishing job, see Define Jobs in the Business 360 Console help.

CHAPTER 3

Connections for Business 360 events

To read events from Business 360 applications, you can create a Business 360 Events connection in Administrator. You can then use the Business 360 Events connection in a Source transformation in Cloud Data Integration to read events.

To publish events from Business 360 applications to targets such as Kafka and Amazon S3, you can create a second connection and use the connection in a Target transformation.

You can create connections on the Connections page and use the connection in the Mapping Designer to create a mapping.

Business 360 Events connection properties

When you create the Business 360 Events connection, you must configure the connection properties.

The following table describes the Business 360 Events connection properties:

Property	Description
Connection Name	The name of the connection. The name is not case sensitive and must be unique within the domain. You can change this property after you create the connection. The name cannot exceed 100 characters, contain spaces, or contain the following special characters:~ ` ! $ % ^ & * ( ) - + = { [}] | \ : ; " ' < , > . ? /
Description	Optional. The description of the connection. The description cannot exceed 4,000 characters.
Type	The connection type. Select **Business 360 Events**.
Runtime Environment	The name of the runtime environment where you want to run the mappings. Specify a Secure Agent, Hosted Agent, or a serverless runtime environment.

Property	Description
Start Timestamp	A system-generated timestamp variable to set the start of a time range for which you want to get events from the Business 360 data store. **Note:** You can't modify this attribute.
End Timestamp	A system-generated timestamp variable to set the end of a time range for which you want to get events from the Business 360 data store. **Note:** You can't modify this attribute.

CHAPTER 4

Mappings for Business 360 Events Connector

To publish Business 360 events to a target, create a mapping in the Cloud Data Integration Mapping Designer. When you create a mapping, you can configure Source and Target transformations to represent the source and target for Business 360 events.

Business 360 events source

In a mapping, you can configure a Source transformation to represent a Business 360 Events connection and publishing events.

The following table describes the Business 360 events properties that you can configure in a Source transformation:

Property	Description
Name	Enter the source name.
Description	Enter a description for the source.
Connection	Choose a Business 360 Events connection to read events from the Business 360 data store.
Source Type	Type of the source object. Select **Single Object**.
Object	Select the publishing event asset from which you want to read the data.
Fields	A set of source fields that are auto-populated. Use the relevant fields in the mapping. The following fields are auto-populated: - -id. The ID of the business events. - timestamp. The time of event creation. - handlerData. The event data or payload.

Business 360 events target

In a mapping, you can configure a Target transformation to represent a target to which you want to publish Business 360 events. To publish Business 360 events to a target, use a connection to the specific target.

The following table describes the properties of the Business 360 events target that you configure in a Target transformation:

Property	Description
Name	Enter the target name.
Description	Enter a description for the target.
Incoming Fields	Lists the following incoming fields from the Source transformation: - -id. The ID of the business events. - timestamp. The time of event creation. - handlerData. The event data or payload.
Connection	Choose a target connection to publish events to a Cloud Data Integration target, such as Kafka or Amazon S3.
Target Type	Type of the target object. Select **Single Object**.
Object	Select the assets in the target to which you want to publish events.
Target Fields	Lists all the target fields. You can add fields, delete fields, and edit the metadata of the fields.
Field Mapping	View the input and target fields. Drag the relevant fields to map them.

Mapping example

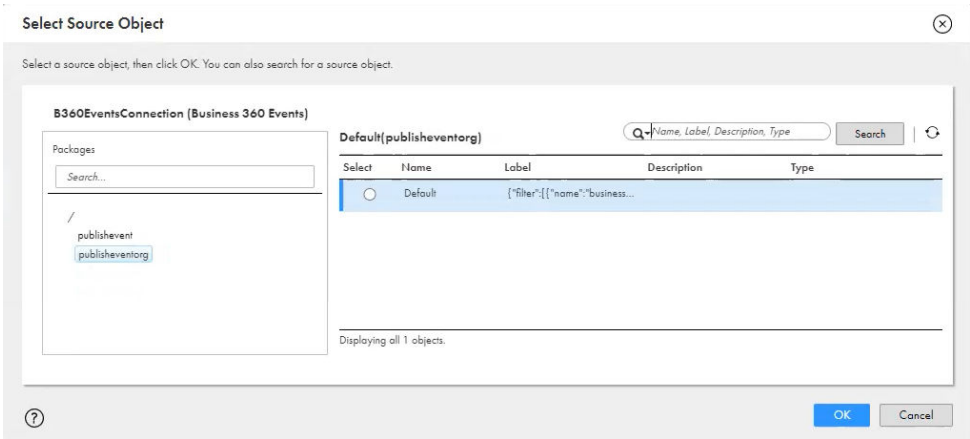
An organization uses Customer 360 to create and manage customer records. When records are created, updated, or deleted, the organization wants these events published to a Cloud Data Integration target, such as Kafka. You create a mapping to read these events from Customer 360 by using Business 360 Events Connector and publish the events to Kafka.

1. In the Business 360 Console, create a publishing event.
2. Create a Business 360 Events connection.
3. Create a connection to the target, Kafka.
4. Create a mapping.
5. Add a Source transformation, and specify a name and description in the general properties.
6. On the **Source** tab, perform the following steps:
    a. In the **Connection** field, select the Business 360 Events connection.
    b. In the **Source Type** field, select **Single Object**.

c. In the **Object** field, select the source object from which you want to publish events and the default handler.

The source object is the publishing event that you create on the **Business Events** page of the Business 360 Console.

The following image shows the source publishing events:

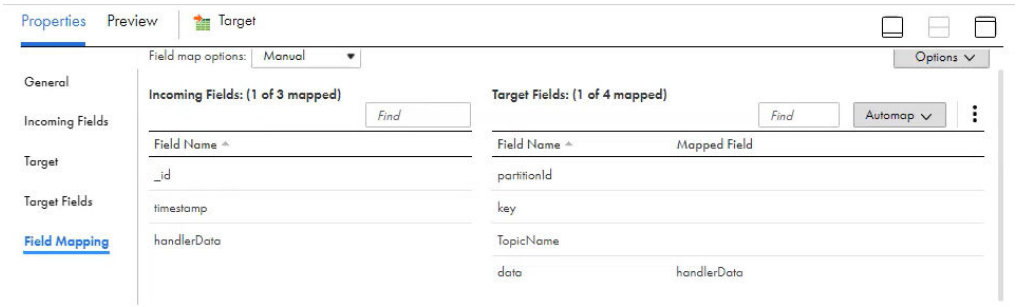


7. Add a Target transformation, and specify the name and description in the general properties.
8. On the **Incoming Fields** tab, review the incoming fields.

   The incoming fields are the same as the source fields, _id, handlerData, and timestamp.
9. On the **Target** tab, perform the following steps:
   a. In the **Connection** field, select the connection to the target, which is Kafka.
   b. In the **Target Type** field, select **Single Object**.
   c. In the **Object** field, select the target object to which you want to publish events.
10. On the Target Fields tab, specify the target field properties.
11. On the **Field Mapping** tab, select and map the relevant incoming fields to the target fields.

    Map the **handlerData** incoming field to the **data** target field to publish the event data using a publish events job. The **handlerData** field contains the event data.

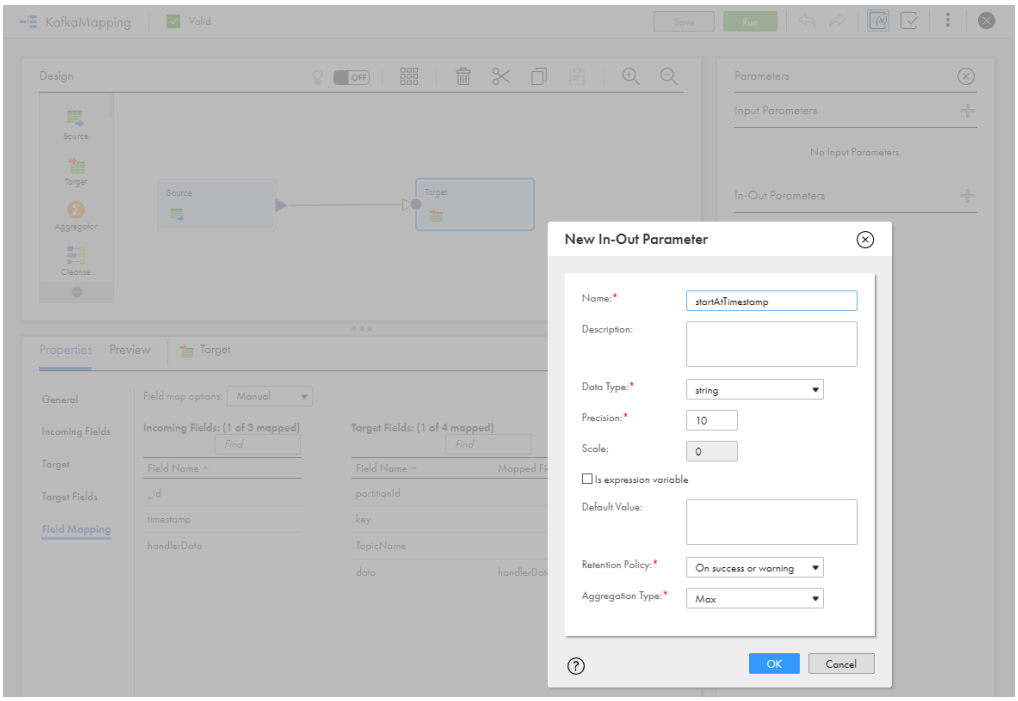
    The following image shows the incoming fields on the left pane and the target fields on the right pane:



12. Go to the **Parameters** panel and add the following parameters in the **In-Out Parameters** section:
    - startAtTimestamp
    - endAtTimestamp

    The input-output parameter is internally mapped to the start time and the end time of the business event publishing job. When you run the job, the Cloud Application Integration process passes the job start time

and end time to the input-output parameter in Cloud Data Integration. Based on the defined taskflows, the job is executed. If you do not define the input-output parameter for the Target transformation in Cloud Data Integration, your job fails.
The following image shows the input-output parameter dialog box:



13. Save the mapping.

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