Informatica® Cloud
Spring 2017

Data Integration Hub Connector Guide
# Preface

Informatica Resources

Informatica Documentation

Informatica Intelligent Cloud Services Web Site

Informatica Intelligent Cloud Services Communities

Informatica Intelligent Cloud Services Marketplace

Data Integration Connector Documentation

Informatica Knowledge Base

Informatica Cloud Trust Site

Informatica Global Customer Support

---

## Chapter 1: Introduction to Data Integration Hub Connector

Data Integration Hub Connector Overview

Data Integration Hub Connector Task and Object Types

Administration of Data Integration Hub Connector

## Chapter 2: Data Integration Hub Connections

Data Integration Hub Connection Overview

Data Integration Hub Connection Properties

Rules and Guidelines for Data Integration Hub Connections

Creating a Data Integration Hub Connection

## Chapter 3: Mappings with Data Integration Hub Connector

Mappings with Data Integration Hub Connector Overview

Mapping Configuration Process

## Chapter 4: Data Synchronization Tasks with Data Integration Hub Connector

Data Synchronization Tasks with Data Integration Hub Connector Overview

Data Synchronization Task Configuration Process

Creating a Data Synchronization Task for a Publication

- Step 1. Define Task Details
- Step 2. Select Publication Source
- Step 3. Select Publication Target
- Step 4. Configure Field Mapping

Creating a Data Synchronization Task for a Subscription

- Step 1. Define Task Details
- Step 2. Select Subscription Source
- Step 3. Select Subscription Target
- Step 4. Configure Field Mapping
Data Synchronization Examples .................................................. 19

Chapter 5: Mapping Configuration Tasks with Data Integration Hub Connector.................................................................................. 21

Mapping Configuration Tasks with Data Integration Hub Connector Overview. ........................................... 21
Mapping Configuration Task Configuration Process. ................................................................................. 22
Creating the Mapping and Task for a Publication. ..................................................................................... 22
  Creating a Mapping for a Publication. ...................................................................................................... 22
  Creating a Mapping Configuration Task for a Publication. .................................................................... 23
Creating the Mapping and Task for a Subscription. ................................................................................. 23
  Creating a Mapping for a Subscription. ..................................................................................................... 24
  Creating a Mapping Configuration Task for a Subscription. ................................................................. 24

Chapter 6: Data Integration Hub Data Type Reference................................................................. 26

Data Integration Hub and Transformation Data Types. ........................................................................ 26

Index. ................................................................................................................................. 28

Table of Contents
Preface

The Data Integration Hub Connector Guide contains information about how to set up and use Data Integration Hub connections. This guide assumes you have an understanding of the repository for your environment and an understanding of Informatica Cloud® Connectors.

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 Intelligent Cloud Services Web Site

You can access the Informatica Intelligent Cloud Services web site at http://www.informatica.com/cloud. This site contains information about Cloud Data Integration editions and applications as well as information about other Informatica Cloud integration services.

Informatica Intelligent Cloud Services Communities

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

Access the Informatica Intelligent Cloud Services Community at:

To find resources on using 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 Intelligent Cloud Services Marketplace

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

Data Integration Connector Documentation

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

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 Intelligent Cloud Services. 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

Introduction to Data Integration Hub Connector

This chapter includes the following topics:

- Data Integration Hub Connector Overview, 7
- Data Integration Hub Connector Task and Object Types, 7
- Administration of Data Integration Hub Connector, 8

Data Integration Hub Connector Overview

Use Data Integration Hub Connector to enable connectivity to the Data Integration Hub publication repository when you create publication and subscription mappings.

You use Data Integration Hub Connector when you create a Data Integration Hub connection, which you then use in Informatica Cloud mappings and tasks. In mappings and tasks that Data Integration Hub uses for publication, the Data Integration Hub publication repository is the target of the mapping or task. In mappings and tasks that Data Integration Hub uses for subscription, the Data Integration Hub publication repository is the source of the mapping or task.

Data Integration Hub Connector Task and Object Types

The following table lists the Data Integration Hub object types that you can include in Informatica Cloud tasks:

<table>
<thead>
<tr>
<th>Task Type</th>
<th>Source</th>
<th>Target</th>
<th>Lookup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Synchronization</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Mapping Configuration</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Administration of Data Integration Hub Connector

Before you use the Data Integration Hub connections as sources or targets in mappings and tasks, an administrator must install and configure the Data Integration Hub Connector.

As a user, you can use Data Integration Hub Connector after an administrator performs the following tasks:

- Create and maintain an Informatica Cloud organization. For more information, see the Cloud Administrator Guide.

- Install the cloud Data Integration Hub Connector. Data Integration Hub Connector is an add-on connector that you must download and install. You cannot install Data Integration Hub Connector as a free trial. For more information, see the Informatica Cloud Administrator Guide.

  Note: If you do not download and install Data Integration Hub Connector, it does not appear on the Add-On Connectors page and is not available for selection when you create a connection.
Data Integration Hub Connections

This chapter includes the following topics:

- Data Integration Hub Connection Overview, 9
- Data Integration Hub Connection Properties, 9
- Rules and Guidelines for Data Integration Hub Connections, 10
- Creating a Data Integration Hub Connection, 11

Data Integration Hub Connection Overview

Create a Data Integration Hub connection to access data in the Data Integration Hub publication repository. You can use Data Integration Hub connections to specify sources and targets in Informatica Cloud tasks. When you create a Data Integration Hub connection, you enter properties that are specific to the Data Integration Hub environment.

You can create a Data Integration Hub connection on the Connections page, or in the Data Synchronization task wizard. The connection becomes available to the entire organization.

Data Integration Hub Connection Properties

When you set up a Data Integration Hub connection, you must configure the connection properties.

The following list describes Data Integration Hub connection properties:

- **Runtime Environment**
  - The name of the runtime environment where you want to run the tasks.

- **Data Integration Hub Console URL**
  - The Data Integration Hub Operation Console URL. The default is https://localhost:18443/dih-console.

- **Data Integration Hub Console Username**
  - User name to connect to the Data Integration Hub Operation Console.

- **Data Integration Hub Console Password**
  - Password to connect to the Data Integration Hub Operation Console.
Data Integration Hub Server URL

The Data Integration Hub server URL. The default is `https://localhost:19553/dx-server-rest-api`.

Must be identical to the URL in the `dx-configuration.properties` file that resides in the Data Integration Hub installation.

Data Integration Hub Internal Username

User name to connect to the Data Integration Hub server.

It must be identical to the username in the `dx-configuration.properties` file that resides in the Data Integration Hub installation.

Data Integration Hub Internal Password

Password to connect to the Data Integration Hub server.

Must be identical to the password in the `dx-configuration.properties` file that resides in the Data Integration Hub installation.

Publication Repository JDBC Connection URL

Optional. The Data Integration Hub publication repository URL.

Must point to the Data Integration Hub publication repository.

For Oracle the format must be `jdbc:informatica:oracle://<host>:<port>;sid=<sidName>`

For Microsoft SQL Server the format must be `jdbc:informatica:sqlserver://<host>:<port>;databaseName=<dbname>`

Publication Repository JDBC Jar Directory

The path where the Data Integration Hub publication repository JAR files reside. The default is `<DIHInstallationDir>/shared/lib`.

Must be local to the Secure Agent that resides in the location that you specify in Runtime Environment.

If you don’t specify a directory path here, the Secure Agent obtains the JAR files from the directory that is specified in the CLASSPATH system variable.

Publication Repository Schema

Microsoft SQL Server only. The publication repository schema.

Publication Repository Username

User name to connect to the publication repository.

Publication Repository Password

Password to connect to the publication repository.

Rules and Guidelines for Data Integration Hub Connections

Consider the following rules and guidelines for Data Integration Hub connections:

- By default, quoted identifiers are enabled and vary by the database.
- The Data Integration Hub cloud connectivity system properties must be configured in Data Integration Hub. For more information, see the Data Integration Hub Administrator Guide.
Creating a Data Integration Hub Connection

1. In Informatica Cloud, click **Configure > Connections**.
   The **Connections** page appears.

2. Click **New**.
   The **New Connection** page appears.

3. Enter a name for the Data Integration Hub connection.
   A connection name can contain alphanumeric characters, spaces, and the following special characters:
   _ . + -
   A connection name is not case sensitive.

4. Enter a description for the connection.
   The description can have a maximum length of 255 characters.

5. Select **Data Integration Hub (Informatica LLC)** as the connection type.
   The Data Integration Hub Connection Properties appear.

6. Specify the Data Integration Hub connection properties and then click **OK**.

7. Click **Test** to evaluate the connection.
   A message informs you that the test is successful.

8. Click **OK**.
CHAPTER 3

Mappings with Data Integration Hub Connector

This chapter includes the following topics:

- Mappings with Data Integration Hub Connector Overview, 12
- Mapping Configuration Process, 12

Mappings with Data Integration Hub Connector Overview

Use the Data Integration Hub Connector for Data Integration Hub cloud publications and subscriptions with automatic mappings.

You develop mappings for Data Integration Hub automatic publications and subscriptions in the same way that you develop other Informatica Cloud mappings.

**Note:** Do not run mappings that you create for Data Integration Hub from within Informatica Cloud. You must run Data Integration Hub mappings from Data Integration Hub by running the publication or the subscription to which the mapping is associated.

Mapping Configuration Process

You create Informatica Cloud mappings to use in automatic cloud publications and subscriptions in Informatica Cloud Mapping Designer.

The Data Integration Hub operator can then select the mapping when creating an automatic cloud publication or subscription in Data Integration Hub.

When you create a mapping for a publication, the source is the publishing cloud application and the target is the topic table in the Data Integration Hub publication repository into which to publish the data.

When you create the mapping, you can parameterize the connection to the Data Integration Hub publication repository. The operator then fills in the connection values when they create the publication or subscription in the Data Integration Hub Operation Console.

If you do not parameterize the mapping, you must select the Data Integration Hub connection as the target in publication mappings and as the source in subscription mappings.
This chapter includes the following topics:

- Data Synchronization Tasks with Data Integration Hub Connector Overview, 13
- Data Synchronization Task Configuration Process, 14
- Creating a Data Synchronization Task for a Publication, 14
- Creating a Data Synchronization Task for a Subscription, 16
- Data Synchronization Examples, 19

Data Synchronization Tasks with Data Integration Hub Connector Overview

Use Data Integration Hub Connector in Data Synchronization tasks that you create for custom Data Integration Hub cloud publications and subscriptions.

You develop Data Synchronization tasks for Data Integration Hub custom publications and subscriptions in the same way that you develop other Data Synchronization tasks.

**Note:** Do not run tasks that you create for Data Integration Hub from within Informatica Cloud. You must run Data Integration Hub tasks from Data Integration Hub by running the publication or the subscription to which the task is associated.

In tasks that Data Integration Hub uses for publication, the Data Integration Hub publication repository is the target of the task. In tasks that Data Integration Hub uses for subscription, the Data Integration Hub publication repository is the source of the task.
Data Synchronization Task Configuration Process

You create Informatica Cloud Data Synchronization tasks to use in custom cloud publications and subscriptions.

To use Data Synchronization tasks with Data Integration Hub Connector, perform the following tasks:

1. Create a mapping in Informatica Cloud Mapping Designer.
   - When you create a mapping for a publication, the source is the publishing cloud application and the target is the topic table in the Data Integration Hub publication repository into which to publish the data.
   - When you create a mapping for a subscription, the source is the topic table in the Data Integration Hub publication repository from which to consume data and the target is the subscribing cloud application.
   
   **Note**: The topic must exist in Data Integration Hub before you create the mapping.

2. Create a Data Synchronization task in the Mapping Designer and select the appropriate mapping. The Data Integration Hub operator can then select the task when creating a custom cloud publication or subscription in Data Integration Hub.

Creating a Data Synchronization Task for a Publication

To create a Data Synchronization task for a publication, perform the following tasks:

- Define task details.
- Select the publication source. The source is the cloud application from which you want to publish data.
- Select the publication target. The target is the topic table in the Data Integration Hub publication repository, into which the cloud application publishes the data. The topic must exist in Data Integration Hub before you create the task.
- Optionally, define data filters. Data Integration Hub does not support the use of advanced filters in Data Synchronization tasks.
- Configure field mapping. Map source fields to topic fields.
- Save and close the task.

Step 1. Define Task Details

Define task properties in the **Definition** page of the Data Synchronization Task Wizard.

1. Click **Task Wizards > Data Synchronization**.
   - The Data Synchronization Task Wizard appears.

2. Specify the following details:
   - **Task Name**
     - Enter a name for the task.
     - The name of the task must be unique within the organization. The task name is not case sensitive.
     - The task name can contain alphanumeric characters, spaces, and the following special characters:_ . + -
Tip: Indicate the type of the task in the task name. This will ensure that when you select a task to use in a Data Integration Hub publication workflow, you select a publication task. For example, name the task Pub_<TaskName>.

Description

 Optionally, enter a description for the task. The description can contain up to 255 characters.

Task Operation

 Choose Insert.

3. Click Next

The Source page appears.

Step 2. Select Publication Source

Select the publication source in the Source page of the Data Synchronization Task Wizard.

► Specify the following details and then click Next:

Connection

 Select a source connection that connects to the source from which you want to publish data.

Source Type

 The source type depends on the number of tables that you want to publish:

• To publish a single table, select Single.

• To publish multiple tables, select Multiple and then create a relationship between the tables.

Source Object

 Select the source from which you want to publish data.

The Target page appears.

Step 3. Select Publication Target

Select the publication target in the Target page of the Data Synchronization Task Wizard. The publication target is the topic table in the Data Integration Hub publication repository to which you want to publish data.

1. Specify the following details:

Connection

 Select the Data Integration Hub connection.

Target Object

 Select the topic table to which you want to publish data. The format of the target object is TopicName.tableName.

2. Click Next.

The Data Filters page appears.

3. Optionally, configure data filters. You configure data filters for Data Integration Hub publications in the same way that you configure data filters for other Informatica Cloud tasks.

4. Click Next.

The Field Mapping page appears.
Step 4. Configure Field Mapping

Map source fields to topic fields in the Field Mapping page of the Data Synchronization Task Wizard.

1. Map fields in the Source column to fields in the Target column and then click Next.
   The Schedule page appears.
2. Verify that the option Do not run this task on a schedule is selected. The task runs according to the schedule of the publication that uses the task.
3. Select Save > Save and Close to save the task.

Creating a Data Synchronization Task for a Subscription

To create a Data Synchronization task for a subscription, perform the following tasks:

- Define task details.
- Select the subscription source. The source is the topic table in the Data Integration Hub publication repository, from which you want to consume data. The topic must exist in Data Integration Hub before you create the task.
- Select the subscription target. The target is the cloud application that you want to consume the data.
- Optionally, define data filters. Data Integration Hub does not support the use of advanced filters in Data Synchronization tasks.
- Configure field mapping. Map topic fields to target fields.
- Save and close the task.

Step 1. Define Task Details

Define task properties in the Definition page of the Data Synchronization Task Wizard.

1. Click Task Wizards > Data Synchronization.
   The Data Synchronization Task Wizard appears.
2. Specify the following details and then click Next:

   **Task Name**
   Enter a name for the Data Synchronization task.
   The name of the task must be unique within the organization. The task name is not case sensitive.
   The task name can contain alphanumeric characters, spaces, and the following special characters: _ . + -
   **Tip**: Indicate the type of the task in the task name. This will ensure that when you select a task to use in a Data Integration Hub subscription workflow, you select a subscription task. For example, name the task Sub_<TaskName>.

   **Description**
   Optionally, enter a description for the task. The description can contain up to 255 characters.

   **Task Operation**
   Choose Insert.
   The Source page appears.

**Step 2. Select Subscription Source**

Select the subscription source in the Source page of the Data Synchronization Task Wizard. The subscription source is the topic table in the Data Integration Hub publication repository from which you want to consume data.

- Specify the following details and then click Next:

  **Connection**
  Select the Data Integration Hub connection.

  **Source Type**
  The source type depends on the number of tables that you want to consume and on the subscription type:
  - To consume a single table, select Single.
  - To consume multiple tables, or when the subscription is a compound subscription, select Multiple and then create a relationship between the tables.

  **Source Object**
  Select the topic table from which you want to consume data. The format of the object is TopicName.tableName.

  The Target page appears.

**Step 3. Select Subscription Target**

Select the subscription target in the Target page of the Data Synchronization Task Wizard.

1. Specify the following details:

   **Connection**
   Select a target connection that connects to the target into which you want to consume data.

   **Target Object**
   Select the target into which you want to consume the data.
2. Click Next.
   The Data Filters page appears.

3. Optionally, configure data filters. You configure data filters for Data Integration Hub subscriptions in the same way that you configure data filters for other Informatica Cloud tasks.

4. Click Next.
   The Field Mapping page appears.

**Step 4. Configure Field Mapping**

Map topic fields to target fields in the **Field Mapping** page of the **Data Synchronization Task Wizard**.

1. Map fields in the **Source** column to fields in the **Target** column and then click **Next**.
   The **Schedule** page appears.

2. Verify that the option **Do not run this task on a schedule** is selected. The task runs according to the schedule of the publication that uses the task.

3. Select **Save > Save and Close** to save the task.
Data Synchronization Examples

The following examples show the configuration of tasks for publication to and subscription from the topic `topic2e`, table `test1`.

Publication Example

The following image shows Data Integration Hub as a target for the publication task:
Subscription Example

The following image shows Data Integration Hub as a source for the subscription task:
CHAPTER 5

Mapping Configuration Tasks with Data Integration Hub Connector

This chapter includes the following topics:

- Mapping Configuration Tasks with Data Integration Hub Connector Overview, 21
- Mapping Configuration Task Configuration Process, 22
- Creating the Mapping and Task for a Publication, 22
- Creating the Mapping and Task for a Subscription, 23

Mapping Configuration Tasks with Data Integration Hub Connector Overview

Use Data Integration Hub Connector in Mapping Configuration tasks that you create for custom Data Integration Hub cloud publications and subscriptions. You develop Mapping Configuration tasks for Data Integration Hub custom publications and subscriptions in the same way that you develop other Mapping Configuration tasks.

**Note:** Do not run tasks that you create for Data Integration Hub from within Informatica Cloud. You must run Data Integration Hub tasks from Data Integration Hub by running the publication or the subscription to which the task is associated.
Mapping Configuration Task Configuration Process

You create Informatica Cloud Mapping Configuration tasks to use in custom cloud publications and subscriptions.

To use Mapping Configuration tasks with Data Integration Hub Connector, perform the following tasks:

1. Create a mapping in Informatica Cloud Mapping Designer.
   When you create a mapping for a publication, the source is the publishing cloud application and the target is the topic table in the Data Integration Hub publication repository into which to publish the data.
   When you create a mapping for a subscription, the source is the topic table in the Data Integration Hub publication repository from which to consume data and the target is the subscribing cloud application.
   **Note:** The topic must exist in Data Integration Hub before you create the mapping.

2. Create a Mapping Configuration task in the Mapping Designer and select the appropriate mapping. The Data Integration Hub operator can then select the task when creating a custom cloud publication or subscription in Data Integration Hub.

Creating the Mapping and Task for a Publication

The mappings and tasks that you create to use in Data Integration Hub publications include a source and a target.

In publication mappings and tasks the source is the cloud application from which to publish data and the target is the topic table in the Data Integration Hub publication repository to which the publication publishes data.

Creating a Mapping for a Publication

Create the mapping to use in the Mapping Configuration task for the publication.

The topic must exist in Data Integration Hub before you create the mapping.

1. Click Design > Mappings, and then click New Mapping.
2. In the New Mapping dialog box, enter the mapping name and description, and click OK.
   You can use alphanumeric characters and underscores (_) in the mapping name.
3. Add a source to the mapping canvas and configure source properties.
4. Add a target to the mapping canvas and configure target properties.
   a. In the Properties panel, on the General tab, you can enter a name and description.
   b. Click the Target tab. From the Connection list, select a Data Integration Hub connection that connects to the topic to which you want to publish data.
5. On the mapping canvas, connect the source to the target.
6. Click Save > Save and Close.
Creating a Mapping Configuration Task for a Publication

When you create a publication task you select mapping that you created for the publication.

The mapping must exist in Informatica Cloud Mapping Designer before you create the task.

1. Click Task Wizards > Mapping Configuration and then click New.
   The Mapping Configuration Task Wizard appears.

2. In the Definition step, specify the following details:
   - **Task Name**
     Enter a name for the task.
     The name of the task must be unique within the organization. The task name is not case sensitive.
     The task name can contain alphanumeric characters, spaces, and the following special characters: _ . + -
     Tip: Indicate the type of the task in the task name. This will ensure that when you select a task to use in a Data Integration Hub publication workflow, you select a publication task. For example, name the task Pub_<TaskName>.
   - **Description**
     Optionally, enter a description for the task. The description can contain up to 255 characters.
   - **Runtime Environment**
     Runtime environment that contains the Secure Agent to run the task.
   - **Task Based On**
     The basis for the task. Select Mapping.
   - **Mapping**
     Mapping associated with the task. Select the publication mapping.
     To select a mapping, click Select. The Select a Mapping dialog box displays up to 200 mappings. If the mapping you want to use does not display, enter a search string to reduce the number of mappings that display.
     Select a mapping and click OK.
     An image of the mapping displays below the mapping name.

3. Click Save > Save and Close.

Creating the Mapping and Task for a Subscription

The mappings and tasks that you create to use in Data Integration Hub subscriptions include a source and a target.

In subscription mappings and tasks the source is the topic table in the Data Integration Hub publication repository from where to consume data and the target is the cloud application that consumes the data.

The topic must exist in the Data Integration Hub before you create the mapping and task.
Creating a Mapping for a Subscription

Create the mapping to use in the Mapping Configuration task for the subscription.

The topic must exist in Data Integration Hub before you create the mapping.

1. Click Design > Mappings, and then click New Mapping.
2. In the New Mapping dialog box, enter the mapping name and description, and click OK.
   You can use alphanumeric characters and underscores (_) in the mapping name.
3. Add a source to the mapping canvas and configure source properties.
   a. In the Properties panel, on the General tab, you can enter a name and description.
   b. Click the Source tab. From the Connection list, select a Data Integration Hub connection that
      connects to the topic to which you want to subscribe.
   c. Click Select. To consume multiple topic tables select Multiple Objects and then, in the actions
      menu, click Add Source Object.
      The Select Source Object dialog box shows.
   d. Select the database table or tables to consume and then click OK.
4. Add a target to the mapping canvas and configure target properties.
5. On the mapping canvas, connect the source to the target.
6. Click Save > Save and Close.

Creating a Mapping Configuration Task for a Subscription

When you create a subscription task you select mapping that you created for the subscription.

The mapping must exist in Informatica Cloud Mapping Designer before you configure the task.

1. Click Task Wizards > Mapping Configuration.
   The Mapping Configuration Task Wizard appears.
2. Specify the following details:
   Task Name
      Enter a name for the task.
      The name of the task must be unique within the organization. The task name is not case sensitive.
      The task name can contain alphanumeric characters, spaces, and the following special
      characters:_ . + -
      Tip: Indicate the type of the task in the task name. This will ensure that when you select a task to
      use in a Data Integration Hub publication workflow, you select a publication task. For example,
      name the task Pub_<TaskName>.
   Description
      Optionally, enter a description for the task. The description can contain up to 255 characters.
   Runtime Environment
      Runtime environment that contains the Secure Agent to run the task.
   Task Based On
      The basis for the task. Select Mapping.
Mapping

Mapping associated with the task. Select the subscription mapping.
To select a mapping, click Select. The Select a Mapping dialog box displays up to 200 mappings. If the mapping you want to use does not display, enter a search string to reduce the number of mappings that display.

Select a mapping and click OK.

An image of the mapping displays below the mapping name.

3. Click Save > Save and Close.
Chapter 6

Data Integration Hub Data Type Reference

This chapter includes the following topic:

- Data Integration Hub and Transformation Data Types, 26

Data Integration Hub and Transformation Data Types

Informatica Cloud uses the JDBC type 4 driver to read data. The Secure Agent converts the Data Integration Hub data type to the transformation data type, and uses the transformation data type to move data across platforms.

When Informatica Cloud writes to a Data Integration Hub target, the Secure Agent converts the transformation data type to the corresponding Data Integration Hub data type. When Informatica Cloud reads from a Data Integration Hub source, the Secure Agent converts the Data Integration Hub data type to the corresponding transformation data type.

The following table compares the Data Integration Hub data types that Informatica Cloud supports to the transformation data types:

<table>
<thead>
<tr>
<th>Data Integration Hub Data Type</th>
<th>Transformation Data Type</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIGINT</td>
<td>Bigint</td>
<td>-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 (Precision 19, scale 0)</td>
</tr>
<tr>
<td>BINARY</td>
<td>Binary</td>
<td>1 to 104,857,600 bytes</td>
</tr>
<tr>
<td>BIT</td>
<td>Integer</td>
<td>-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0)</td>
</tr>
<tr>
<td>BLOB</td>
<td>Binary</td>
<td>1 to 104,857,600 bytes</td>
</tr>
<tr>
<td>BOOLEAN</td>
<td>Integer</td>
<td>-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0)</td>
</tr>
<tr>
<td>CHAR</td>
<td>String</td>
<td>1 to 104,857,600 characters</td>
</tr>
<tr>
<td>Data Integration Hub Data Type</td>
<td>Transformation Data Type</td>
<td>Range</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>CLOB</td>
<td>Text</td>
<td>1 to 104,857,600 characters</td>
</tr>
<tr>
<td>DATE</td>
<td>Date/Time</td>
<td>Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)</td>
</tr>
<tr>
<td>DECIMAL</td>
<td>Decimal</td>
<td>Precision 1 to 28, scale 0 to 28</td>
</tr>
<tr>
<td>DOUBLE</td>
<td>Double</td>
<td>Precision 15</td>
</tr>
<tr>
<td>FLOAT</td>
<td>Double</td>
<td>Precision 15</td>
</tr>
<tr>
<td>INTEGER</td>
<td>Integer</td>
<td>-2,147,483,648 to 2,147,483,647 Precision 10, scale 0</td>
</tr>
<tr>
<td>LONGVARBINARY</td>
<td>Binary</td>
<td>1 to 104,857,600 bytes</td>
</tr>
<tr>
<td>LONGVARCHAR</td>
<td>Text</td>
<td>1 to 104,857,600 characters</td>
</tr>
<tr>
<td>NUMERIC</td>
<td>Decimal</td>
<td>Precision 1 to 28, scale 0 to 28</td>
</tr>
<tr>
<td>REAL</td>
<td>Double</td>
<td>Precision 15</td>
</tr>
<tr>
<td>SMALLINT</td>
<td>Integer</td>
<td>-2,147,483,648 to 2,147,483,647 Precision 10, scale 0</td>
</tr>
<tr>
<td>TIME</td>
<td>Date/Time</td>
<td>Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)</td>
</tr>
<tr>
<td>TIMESTAMP</td>
<td>Date/Time</td>
<td>Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)</td>
</tr>
<tr>
<td>TINYINT</td>
<td>Integer</td>
<td>-2,147,483,648 to 2,147,483,647 Precision 10, scale 0</td>
</tr>
<tr>
<td>VARBINARY</td>
<td>Binary</td>
<td>1 to 104,857,600 bytes</td>
</tr>
<tr>
<td>VARCHAR</td>
<td>String</td>
<td>1 to 104,857,600 characters</td>
</tr>
</tbody>
</table>
INDEX

A
administration 8

C
Cloud Application Integration community
URL 5
Cloud Developer community
URL 5
cloud mapping
creating 22, 24
publication 22
subscription 24
connection
creating a 11
properties 9
connector
Data Integration Hub 7
create
connection 11
data synchronization task 14, 16
creating connection
definition 9

data types 26

D
Data Integration Hub
connector 7
Data Integration Hub Connector
definition 7
task and object types 7
data synchronization
eample 19
publication 14, 19
subscription 19
task 13
data synchronization task
configuration process 14
creating 16
creating a 14
publication 14
subscription 16
Data Synchronization task
description 13
data types 26

I
Informatica Global Customer Support
contact information 6

J
JDBC data type 26

M
maintenance outages 6
mapping
configuration process 12
mapping configuration
overview 21
publication 22, 23
subscription 23, 24
mapping configuration task
configuration process 22
Mapping Configuration task
creating 23, 24
mappings
overview 12

P
properties 9

S
status
Informatica cloud services 6
system status 6

T
transformation data type 26
trust site
description 6

U
upgrades 6