



Informatica® PowerCenter
10.5.9

User Guide for PowerCenter

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Preface

Use the *PowerExchange® for Cloud Application User Guide* to integrate PowerCenter and data sources by using Cloud Data Integration. Learn to import data source objects from Cloud Data Integration and use the objects in PowerCenter mappings.

Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

Informatica Network

The Informatica Network is the gateway to many resources, including the Informatica Knowledge Base and Informatica Global Customer Support. To enter the Informatica Network, visit <https://network.informatica.com>.

As an Informatica Network member, you have the following options:

- Search the Knowledge Base for product resources.
- View product availability information.
- Create and review your support cases.
- Find your local Informatica User Group Network and collaborate with your peers.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit <https://search.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 Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit <https://docs.informatica.com>.

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

Informatica Product Availability Matrices

Product Availability Matrices (PAMs) indicate the versions of the operating systems, databases, and types of data sources and targets that a product release supports. You can browse the Informatica PAMs at <https://network.informatica.com/community/informatica-network/product-availability-matrices>.

Informatica Velocity

Informatica Velocity is a collection of tips and best practices developed by Informatica Professional Services and based on real-world experiences from hundreds of data management projects. Informatica Velocity represents the collective knowledge of Informatica consultants who work with organizations around the world to plan, develop, deploy, and maintain successful data management solutions.

You can find Informatica Velocity resources at <http://velocity.informatica.com>. If you have questions, comments, or ideas about Informatica Velocity, contact Informatica Professional Services at ips@informatica.com.

Informatica Marketplace

The Informatica Marketplace is a forum where you can find solutions that extend and enhance your Informatica implementations. Leverage any of the hundreds of solutions from Informatica developers and partners on the Marketplace to improve your productivity and speed up time to implementation on your projects. You can find the Informatica Marketplace at <https://marketplace.informatica.com>.

Informatica Global Customer Support

You can contact a Global Support Center by telephone or through the Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

<https://www.informatica.com/services-and-training/customer-success-services/contact-us.html>.

To find online support resources on the Informatica Network, visit <https://network.informatica.com> and select the eSupport option.

CHAPTER 1

Introduction to PowerExchange for Cloud Applications

This chapter includes the following topics:

- [PowerExchange for Cloud Applications Overview, 7](#)
- [Informatica Cloud Overview, 7](#)
- [PowerExchange for Cloud Applications Implementation , 9](#)

PowerExchange for Cloud Applications Overview

With PowerExchange for Cloud Applications, you can connect to Informatica Cloud from PowerCenter. You can read data from or write data to data sources for which connections are available in Informatica Cloud. For example, you can use PowerExchange for Cloud Applications to import SuccessFactors ODATA objects from Informatica Cloud and use the imported objects in PowerCenter mappings.

Informatica Cloud hosts a wide range of connections to connect to respective data sources. You can use connections according to your Informatica Cloud subscription. To know the list of Informatica Cloud connections supported by PowerExchange for Cloud Applications, contact Informatica Global Customer Support.

Informatica recommends to use a native PowerExchange adapter where available instead of PowerExchange for Cloud Applications. For example, use PowerExchange for Salesforce for data integration on Salesforce instead of PowerExchange for Cloud Applications. The native PowerExchange adapter offers additional features and enhancements that are not available in PowerExchange for Cloud Applications.

Informatica Cloud Overview

Informatica Cloud is an on-demand subscription service that provides a complete platform for cloud integration and data management. When you subscribe to Informatica Cloud, you use a web browser to connect to Informatica Cloud. You can configure connections, create users, and create, run, schedule, and monitor tasks.

Informatica Cloud includes the following components:

Runtime environments

Informatica Cloud Secure Agents provide the execution platform to run the data integration tasks that you configure within Informatica Cloud. A Secure Agent can run within your network.

Informatica Cloud Secure Agent

The Informatica Cloud Secure Agent is a lightweight program that runs all tasks and enables secure communication across the firewall between your organization and Informatica Cloud. You can run one Secure Agent on a machine. After you install a Secure Agent, all Informatica Cloud users in the organization share the Secure Agent. When the Secure Agent runs a task, it connects to the Informatica Cloud hosting facility to access task information. Then, the Secure Agent connects directly and securely to sources and targets, transfers data between sources and targets, and performs any additional task requirements.

Organization

An Informatica Cloud organization is a secure area within the Informatica Cloud repository where you store information and objects. Informatica Cloud administrators maintain Informatica Cloud organizations and sub-organizations. The subscription associated with your organization determines the functionality that you can access in Informatica Cloud.

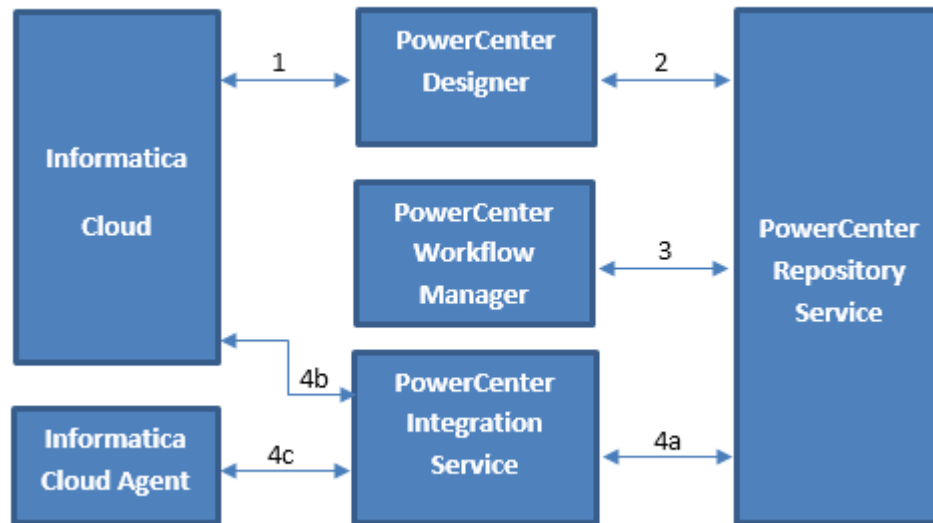
Connections

With connections, you can access data from cloud and on-premise applications, platforms, databases, and flat files. Use connections to specify the location of sources, lookups, and targets included in a task. You can create a connection for connectors that are installed in Informatica Cloud. Many connectors are pre-installed in Informatica Cloud, however you might want to use a connector that is not pre-installed. Add-on connectors created by Informatica Cloud and Informatica Cloud partners are available for installation.

For more information about Informatica Cloud, see the *Informatica Cloud Online Help*.

PowerExchange for Cloud Applications Implementation

The following image shows the implementation of PowerExchange for Cloud Applications:



1. Import objects from Informatica Cloud into the **Designer**. The **Designer** uses REST API calls to authenticate users and import metadata.
2. Create a mapping and save it to the PowerCenter repository.
3. In the **Workflow Manager**, create a PowerExchange for Cloud Applications connection and a workflow.
4. Run the workflow. The PowerCenter Integration Service gets the workflow information from the PowerCenter repository and passes it to the PowerExchange for Cloud Applications connector. The PowerExchange for Cloud Applications connector uses REST API calls to authenticate user and connects to Informatica Cloud agent through TCP/IP. The Cloud agent creates a mapping in Informatica Cloud and runs it.

CHAPTER 2

PowerExchange for Cloud Applications Configuration

This chapter includes the following topics:

- [PowerExchange for Cloud Applications Configuration Overview, 10](#)
- [Prerequisites, 10](#)
- [Registering the Plug-in, 11](#)
- [Configuring `caas.config`, 11](#)

PowerExchange for Cloud Applications Configuration Overview

With PowerExchange for Cloud Applications, the PowerCenter Integration Service can read data from or write data to multiple data sources by using Informatica Cloud.

Prerequisites

Before you use PowerExchange for Cloud Applications, perform the following tasks:

- Ensure that you have a valid Informatica Cloud account to connect to Informatica Cloud. Contact Global Customer Support if you want to create an Informatica Cloud account.
- Ensure that you have a PowerExchange for Cloud Applications license for your Informatica Cloud organization. The license entry on Informatica Cloud for this feature is called as **Informatica Connectivity as a Service** and is displayed under Connector Licenses. In addition, verify that the **Informatica Cloud Connectivity as a Service Bundle** license is displayed under Bundle Licenses.
- If the status of **Informatica Cloud Connectivity as a Service Bundle** is Upgrade Available, update the existing bundle to the latest version available. Go to **Configure > Add-On Bundles > Informatica Cloud Connectivity as a Service Bundle** and click **Upgrade**.
- Ensure that you have license for add-on connectors for your Informatica Cloud organization.
- Ensure that you have license for Mapping Configuration and Mappings for your Informatica Cloud organization.

- Ensure that you have license for the SDKPatch package for your Informatica Cloud organization.
- Ensure that the Informatica Cloud Secure Agent machine and the PowerCenter Server machine can communicate with each other. On the Informatica Cloud Secure Agent machine, add the host entry for the PowerCenter Server machine. The host entry should contain the machine name without the domain name.

Registering the Plug-in

After you install or upgrade to PowerCenter, you must register the plug-in with the PowerCenter repository.

A plug-in is an XML file that defines the functionality of PowerExchange for Cloud Applications. To register the plug-in, the repository must be running in exclusive mode. Use the Administrator tool or the `pmrep RegisterPlugin` command to register the plug-in.

The plug-in file for PowerExchange for Cloud Applications is `CaaSPlugin.xml`. When you install or upgrade to PowerCenter, the installer copies the `CaaSPlugin.xml` file to the following directory: `<Informatica installation directory>\server\bin\Plugin`.

Note: If you do not have the correct privileges to register the plug-in, contact the user who manages the PowerCenter Repository Service.

Configuring `caas.config`

The `caas.config` file contains the list of Informatica Cloud connectors that you can use in PowerCenter.

Ensure that the Informatica Cloud connector that you want to use in PowerCenter is listed in the `caas.config` file. You must obtain license for Informatica Cloud connectors that you want to use.

The `caas.config` file is available at `<Informatica installation directory>\clients\PowerCenterClient\client\bin\javalib\449304`.

The following image shows a sample `caas.config` file:

```
{
  "supportedTypes":
  [
    {
      "name": "JDBC_IC", "sourceSupported": true, "targetSupported": true
    },
    {
      "name": "SuccessFactors OData", "sourceSupported": true, "targetSupported": true
    }
  ],
  "unsupportedTypes":
  [
    {
      "name": "Informatica Connectivity as a Service"
    }
  ],
  "defaultProperties":
  [
    { "name": "INSERT" },
    { "name": "DELETE" },
    { "name": "UPDATE" },
    { "name": "Success File Directory" },
    { "name": "Error File Directory" },
    { "name": "isEdited" },
    { "name": "UpdateMode" }
  ],
  "defaultURL": "https://app.informaticaondemand.com/",
  "instanceName": "Informatica Connectivity as a Service"
}
```

To view the license names for Informatica Cloud connectors, log on to Informatica Cloud. Click **Administer > Licenses** and navigate to the Connector Licenses section. The following image shows license names for a few connectors:

▼ Connector Licenses		
Connector	License Type	Expires
Amazon S3	Trial	Dec 30, 2016
AmazonRedshift	Trial	Jan 6, 2017
Aurora	Subscription	Jan 6, 2019
CaaS	Subscription	Jan 6, 2019
JDBC_IC	Subscription	Jan 6, 2019
SAPtbiReader	Subscription	Jan 6, 2019
SuccessFactors OData	Subscription	Jan 6, 2019

Make sure that the connectors you want to use appear in the Connector Licenses section.

CHAPTER 3

Cloud Applications Sources and Targets

This chapter includes the following topics:

- [Cloud Applications Sources and Targets Overview, 13](#)
- [Importing an Object from Informatica Cloud, 13](#)

Cloud Applications Sources and Targets Overview

When you import an object from Informatica Cloud, the PowerCenter Integration Service creates source or target definitions.

Use the Informatica Cloud URL and your organization account credentials to connect to Informatica Cloud while importing the object. After a successful connection to Informatica Cloud, you can navigate and select the required connection to import an object of your choice. You can search for connections by specifying the name, object type, and description of the connection in the search bar. You can also specify the run-time properties and filter conditions for the selected object.

Importing an Object from Informatica Cloud

Before you import objects from Informatica Cloud, make sure that the connection you want to use to import objects exists in Informatica Cloud. For information about how to create a connection in Informatica Cloud, see the respective connector documentation.

1. Click **Sources > Import from Informatica Cloud** from the **Source Analyzer** or **Target > Import from Informatica Cloud** from the **Target Designer**.

2. Configure the following properties:

Property	Description
Informatica Cloud URL	The URL to connect to Informatica Cloud.
Username	User name for your Informatica Cloud account.
Password	Password for your Informatica Cloud account.

3. Click **Connect**.

4. Click **Next**.

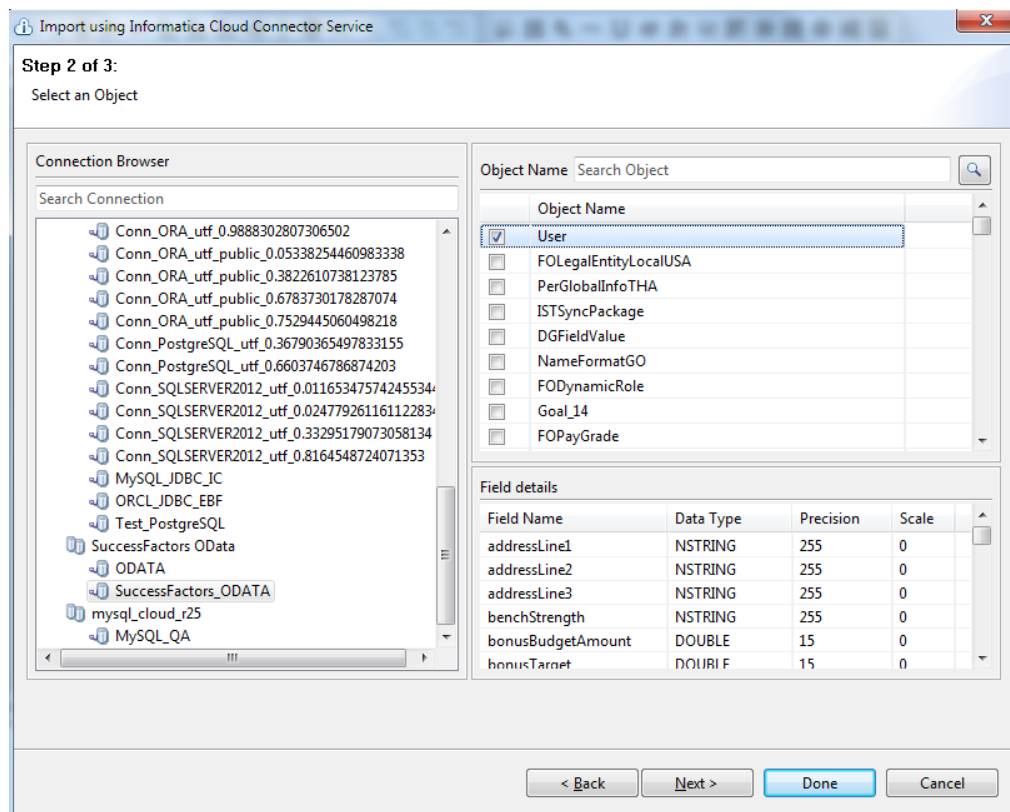
The **Select an Object** page appears. The Connection Browser displays a list of connectors that are configured in the `caas.config` file available in the `<Informatica installation directory>\clients\PowerCenterClient\client\bin\javalib\449304` directory.

5. Select a connection. For example, select the SuccessFactors_ODATA connection.

The objects section displays all the objects available for the connection you selected.

6. Select the object that you want to import. For example, select User.

You can find more details regarding the object you selected in the **Field Details** section. The following image shows the object selected for the SuccessFactors_ODATA connection and field details:



7. Click **Next**.

8. Configure run-time properties and filter conditions for the object. The following image shows the run-time properties for the SuccessFactors_ODATA connection:

Import using Informatica Cloud Connector Service

Step 3 of 3:
Specify run-time properties and filter condition for object User.

Properties | Filter Conditions

Attribute	Value
Data Serialization Format *	ATOM/XML
Maximum Number of Rows *	0
Number of Rows to Skip *	0
Enable Data Validation	<input type="checkbox"/>

< Back Next > Done Cancel

For information about run-time properties, see the documentation for the respective Informatica Cloud Connector at the Informatica Cloud Community: <https://network.informatica.com/cloud/index.htm>. The run-time properties are called source properties or target properties in Informatica Cloud.

9. Click **Done**.

The imported object appears in the **Source Analyzer** or the **Target Designer**.

CHAPTER 4

Cloud Applications Mappings

This chapter includes the following topics:

- [Cloud Applications Mappings Overview, 16](#)
- [Source Properties in Cloud Applications Mappings, 16](#)
- [Target Properties in Cloud Applications Mappings, 16](#)
- [Sample Cloud Applications Mapping , 17](#)

Cloud Applications Mappings Overview

The imported objects from Informatica Cloud appear as source or target definitions in the **Repository Navigator**. Drag source or target definitions in the **Mapping Designer**. You can link the source or target definitions using transformation objects. You can use transformations that are available in Informatica Cloud.

When the PowerCenter Integration Service runs a mapping, it uses a PowerExchange for Cloud Applications connection to create a Mapping Configuration task in Informatica Cloud. The Mapping Configuration task reads data from or writes data to a data source.

You cannot configure parameter files, mapping variables, and service process variables in Cloud Applications mappings.

Source Properties in Cloud Applications Mappings

The run-time properties for source are available in the Source Qualifier transformation in Cloud Applications mappings. Right-click the Source Qualifier transformation and select **Edit**. The **RunTime Attributes** tab in the **Edit Transformations** dialog box shows options to edit run-time parameters and filter conditions.

Target Properties in Cloud Applications Mappings

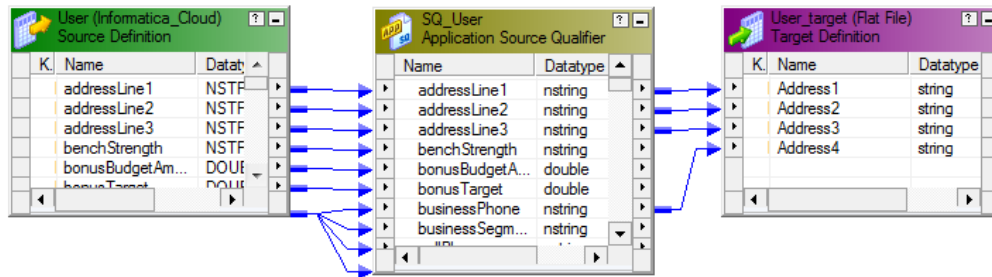
The run-time properties for target are available in the **Target Designer**. Right-click a target definition and select **Edit**. The **RunTime Attributes** tab in the **Edit Tables** dialog box shows the option to edit run-time parameters.

Sample Cloud Applications Mapping

When you create a Cloud Applications mapping, you can add transformations and build transformation logic. The transformation logic represents how the PowerCenter Integration Service extracts and transforms data before it loads the data into a target.

You can edit transformation, ports, properties, sources, metadata extensions, run-time parameters and filter conditions when you create a mapping.

The following image shows a sample SuccessFactors_ODATA_User mapping that reads data from the SuccessFactors ODATA source and writes data to a flat file:



CHAPTER 5

Cloud Applications Sessions and Workflows

This chapter includes the following topics:

- [Sessions and Workflows Overview, 18](#)
- [PowerExchange for Cloud Applications Connection, 18](#)
- [Cloud Applications Sessions, 20](#)
- [Workflows, 22](#)
- [Logs, 22](#)

Sessions and Workflows Overview

After you create a PowerExchange for Cloud Applications mapping in the Designer, you create a PowerExchange for Cloud Applications session in the Workflow Manager.

Before you create a session, configure a PowerExchange for Cloud Applications connection to connect to Informatica Cloud. When the PowerCenter Integration Service connects to Informatica Cloud, it uses the data source connection used in the mapping to read data from or write data to a data source.

Each PowerExchange for Cloud Applications operation requires two sessions of REST API to run successfully. Make sure that you have enough number of concurrent sessions in REST API License Details. Default is 5. Contact Global Customer Support if you want to increase the REST API concurrent sessions.

PowerExchange for Cloud Applications Connection

Before you create a session, you need to create a connection object to connect to Informatica Cloud. Configure a PowerExchange for Cloud Applications connection in the **Workflow Manager**.

The PowerCenter Integration Service uses the connection to connect to the Informatica Cloud organization account.

Creating a PowerExchange for Cloud Applications Connection

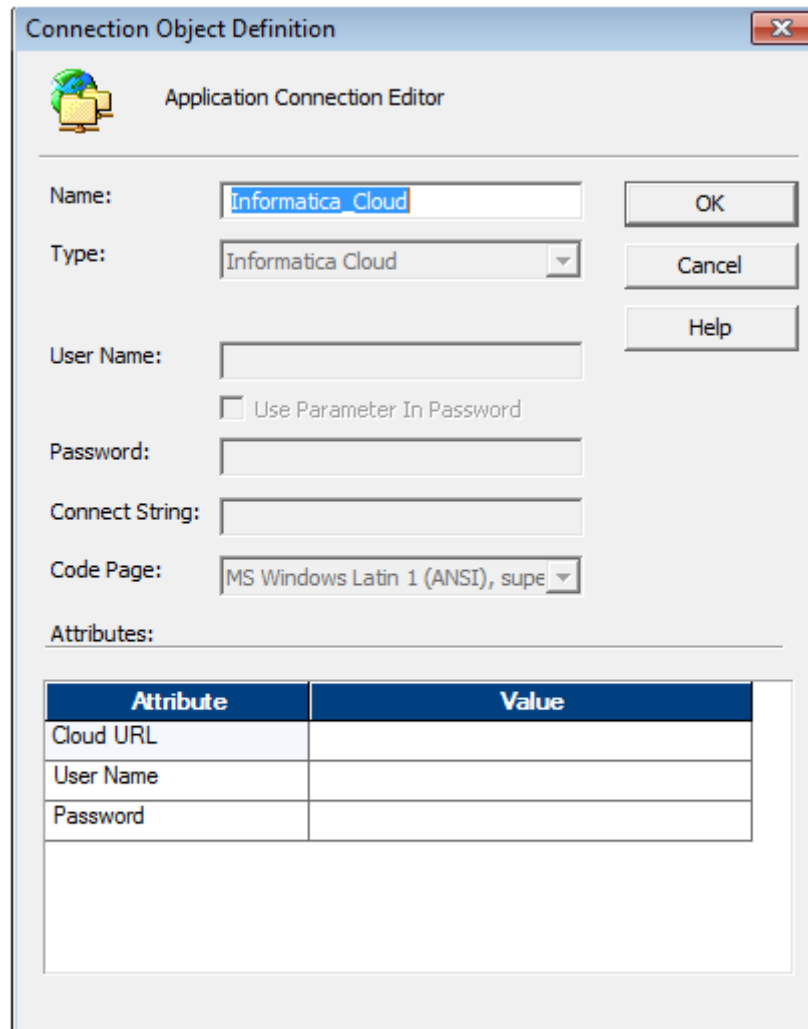
Use the **Workflow Manager** to create a PowerExchange for Cloud Applications connection.

1. Click **Connections > Application....**

The **Application Connection Browser** dialog box appears.

2. Select **Informatica Cloud** for the type of connection and click **New**.

The **Connection Object Definition** dialog box appears.



The screenshot shows the 'Connection Object Definition' dialog box, titled 'Application Connection Editor'. It contains the following fields and controls:

- Name:** A text box containing 'Informatica_Cloud'.
- Type:** A dropdown menu showing 'Informatica Cloud'.
- User Name:** A text box.
- ☐ Use Parameter In Password
- Password:** A text box.
- Connect String:** A text box.
- Code Page:** A dropdown menu showing 'MS Windows Latin 1 (ANSI), supe'.
- Buttons:** 'OK', 'Cancel', and 'Help' are located on the right side.
- Attributes:** A table with two columns: 'Attribute' and 'Value'.

Attribute	Value
Cloud URL	
User Name	
Password	

3. Configure the following PowerExchange for Cloud Applications connection properties:

Property	Description
Informatica Cloud URL	The URL to connect to Informatica Cloud.
Username	User name for your Informatica Cloud account.
Password	Password for your Informatica Cloud account.

Ensure that the connection properties specified here are same as the properties specified while importing objects from Informatica Cloud.

4. Click **Ok**.

Cloud Applications Sessions

When you configure a PowerExchange for Cloud Applications session, you define properties that determine how the PowerCenter Integration Service extracts data from or loads data to the data source.

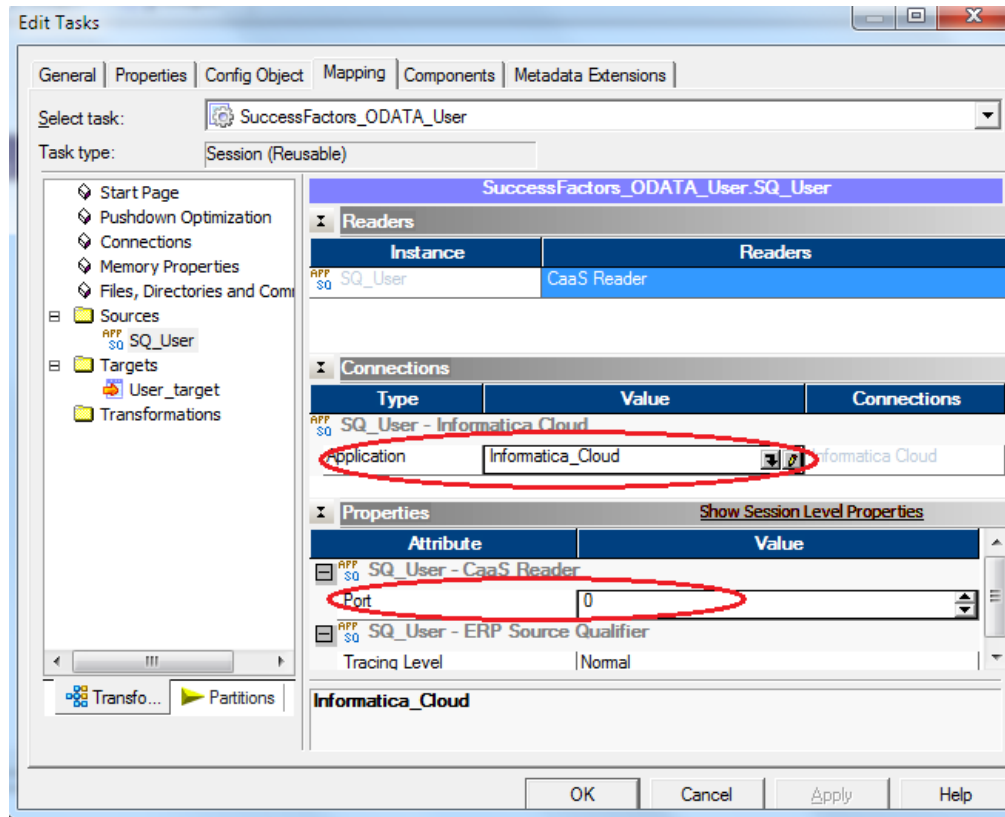
You cannot configure pushdown optimization, parameterization, and partitioning for Cloud Applications source and targets objects.

Creating a PowerExchange for Cloud Applications Session

Use the **Workflow Manager** to create a PowerExchange for Cloud Applications session.

1. Click **Tools > Task Developer**.
2. Click **Tasks > Create**.
3. Select Session as the task type to create.
4. Enter the session name and click **Create**.
The Mappings dialog box appears.
5. Select the required mapping and click **OK**.
The **Workflow Manager** creates a reusable Session task in the Task Developer workspace.
6. Click **Done** in the Create Task dialog box.
7. In the workspace, double-click the session you created to open the session properties.
8. On the Mapping tab, select Sources in the Transformations pane on the left.

The following image shows the Mapping tab for the session SuccessFactor_ODATA_User:



In the Connections on the right, Informatica_Cloud connection is selected by default.

9. In the Source properties, optionally you can set the port number for PowerCenter and Informatica Cloud communication. If you do not set the port number, the communication takes place on any available port.
10. Click **OK** to save and close the session properties.
11. Click **Repository > Save** to save the session to the repository.

Source Session Properties

You can configure the session properties for a PowerExchange for Cloud Applications source on the **Mapping** tab. Define the properties for each source instance in the session.

The following table describes session properties you can configure for a PowerExchange for Cloud Applications source session:

Session Property	Description
Port	Network port number used to connect to Informatica Cloud and run a Mapping Configuration task.

Target Session Properties

You can configure the session properties for a PowerExchange for Cloud Applications target on the **Mapping** tab. Define the properties for each target instance in the session.

The following table describes session properties you can configure for a PowerExchange for Cloud Applications target session:

Attribute	Description
Port	Network port number used to connect to Informatica Cloud and run a Mapping Configuration task.
Insert	Integration Service marks all rows to insert into the target.
Delete	Integration Service marks all rows to delete from the target.
Update	Integration Service marks all rows to update the target. You must specify one of the following values: <ul style="list-style-type: none">- Update As Update. Update each row flagged for update if it exists in the target table.- Update Else Insert. Update the row if it exists. Otherwise, insert it.- None. Disable update.
Success File Directory	The absolute path of a directory on the PowerCenter Integration Service machine. The PowerCenter Integration Service stores the success log files in this directory. If you do not specify the directory path, the PowerCenter Integration Service does not create success log files.
Error File Directory	The absolute path of a directory on the PowerCenter Integration Service machine. The PowerCenter Integration Service stores the error log files in this directory. If you do not specify the directory path, the PowerCenter Integration Service does not create error log files.

Workflows

After creating a session and defining the source and target session properties, you can create and run a workflow. When the PowerCenter Integration Service runs workflows, you can monitor workflow progress in the **Workflow Monitor**.

Before you run a workflow, ensure that the connection you used to import the data source objects from Informatica Cloud is available on the Informatica Cloud instance you connect to run the workflow.

You can view details about a workflow or task in either a Gantt Chart view or a Task view. You can start, stop, and abort workflows from the **Workflow Monitor**. The **Workflow Monitor** displays workflows that have run at least once.

Logs

You can view workflow and session logs on the machine that hosts the PowerCenter Integration Service. You can see detailed information about each event performed during the workflow run.

1. Choose to view log events for the workflow or session.
 - To view the session log, click the session and select **Get Session Log**.
 - To view the workflow log, click the workflow and select **Get Workflow Log**.
2. Select a row in the log. The full text of the message appears in the section at the bottom of the window.

3. Sort the log file by column by clicking on the column heading.
4. Optionally, click **Find** to search for keywords in the log.
5. Optionally, click **Save As** to save the log as an XML document.

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