



## Performing Administrative Actions

Use the Administration workspace to perform administrative actions within the product, including:

- Managing Process Orchestrator servers in a high availability environment
- Determining what Process Orchestrator objects users are allowed to view, create, or modify
- Enabling time zones to be used when configuring processes
- Configuring adapters
- Creating and managing the report database, and running reports

The Administration > Getting Started view provides the initial access to the Administration pane.

In this view, the following administrative actions are available:

Options	Description
View Security	Launches the Administration > Security view to display the rules that ship with the product
Create or Modify Cisco Process Orchestrator Reporting Database	Launches the Administration > Database Settings view where you can view reports, create or modify the report database

The following topics guide you through accessing the Administration workspace and using the features in this view.

- [Managing Properties](#)
- [Managing Database Settings](#)
- [Configuring Security](#)

The Administration workspace contains navigation items that define the various administrative components that are used to manage Cisco Process Orchestrator.

- Security—View the security groups to which users can be added and the objects to which privileges are granted
- Time Zones—View the available time zones that can be used in processes
- Adapters—View and configure the adapters that are installed. You can also view what objects the adapter provides in the product.
- Database Settings—Create a new report database or modify the properties of an existing report database
- Automation Packs—Displays the automation pack that is associated with the security role in the product

# Managing Properties

## Viewing Process Orchestrator Server Properties

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- Step 1** Choose **Administration > Orchestration Servers**, and double-click the server name.
- Step 2** In the Properties dialog, click the **General** tab to view the properties for the Orchestration server.
- Step 3** Click the **Prerequisites** tab to view the status of the server.
- Step 4** Click the **Responsibilities** tab to view the current responsibilities assigned to the server.
- Step 5** Click the **Ports** tab to view the following information:
- Port Number—Port number for connecting to the Orchestration Server.
  - Protocol—Displays the protocol for connection.
  - Listener—Listening port for the protocol
  - Enabled—Indicates the port is opened
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## Setting Process Orchestrator Console Environment Properties

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- Step 1** From the **File** menu, select **Environmental Properties** to display the Environment Properties panel.
- Step 2** Click the **General** tab to enter or modify general information about the server connected to the Console.
- Name—Name of the environment of the Orchestrator server
  - Id—Display-only. ID number of the orchestrator server
  - Description—Enter a brief description to associate with the connected server
  - Enable Team Development—Check this check box to enable team process authoring on this server. Uncheck the check box to disable team process authoring on this server.
  - Suspend Automation—Check this check box to suspend the execution of processes on the server.
  - Audit target property value changes made by processes—Check this check box if you want a property value change made to a process to be audited.
  - Free up memory before process completes—By default, this check box is checked. This will free up the memory consumed by the previous activity instance.
  - Web Console location—Displays the URL to the Web console
- Step 3** Click the **Web Service** tab to modify Cisco Process Orchestrator Web Service configuration settings.
- Enable SOAP secure Web Service (HTTPS)—Check this check box to configure the authentication for the HTTP endpoints.
    - HTTPS port—Enter or verify the Hidden value HTTPS port for the Cisco Process Orchestrator Web Service. (Default: 61526)
    - HTTPS authentication mechanism—Choose the appropriate authentication for the Web service
      - Basic—Sends a username and password as the method of authentication. It's the simplest method of authentication, but the least Hidden value.

Digest—Sends cryptographic representation of the password rather than the password itself. This authentication method is more Hidden value than basic authentication.

NTLM—Authentication protocol used on networks that include systems running on the Windows operating system. This option can be used to return to the normal mode of operation.

– Certificate Subject name—Enter a valid certificate subject name.

- Enable SOAP non-secure Web Service (HTTP)—Check this check box to unencrypt the HTTP endpoints.
  - HTTP port—Enter or verify the Hidden value HTTP port for the Cisco Process Orchestrator Web Service. (Default: 61527)
  - HTTP authentication mechanism—Choose the appropriate authentication for the Web service
    - Basic—Sends a username and password as the method of authentication. It's the simplest method of authentication, but the least Hidden value.
    - Digest—Sends cryptographic representation of the password rather than the password itself. This authentication method is more Hidden value than basic authentication.
    - NTLM—Authentication protocol used on networks that include systems running on the Windows operating system. This option can be used to return to the normal mode of operation.
- Refresh SOAP—Click this button to regenerate the dynamic Web service methods in the North Bound Web service. This affects the Web service methods which start processes and retrieve process instance output variables.

For example, if you create a new process called My Process. Click the Refresh Web Services button to regenerate the NBWS so that the Process service has a new StartMyProcess() call.

- Enable secure REST Web Service (HTTPS)—Check this check box to configure the authentication for the HTTP endpoints.
  - HTTPS port—Enter or verify the Hidden value HTTPS port for the Cisco Process Orchestrator Web Service. (Default: 51526)
  - HTTPS authentication mechanism—Choose the appropriate authentication for the Web service
    - Basic—Sends a username and password as the method of authentication. It's the simplest method of authentication, but the least Hidden value.
    - Digest—Sends cryptographic representation of the password rather than the password itself. This authentication method is more Hidden value than basic authentication.
    - NTLM—Authentication protocol used on networks that include systems running on the Windows operating system. This option can be used to return to the normal mode of operation.
  - Certificate Subject name—Enter a valid certificate subject name.
- Enable non-secure REST Web Service (HTTP)—Check this check box to unencrypt the HTTP endpoints.
  - HTTP port—Enter or verify the Hidden value HTTP port for the Cisco Process Orchestrator Web Service. (Default: 51526)
  - HTTP authentication mechanism—Choose the appropriate authentication for the Web service
    - Basic—Sends a username and password as the method of authentication. It's the simplest method of authentication, but the least Hidden value.
    - Digest—Sends cryptographic representation of the password rather than the password itself. This authentication method is more Hidden value than basic authentication.

NTLM—Authentication protocol used on networks that include systems running on the Windows operating system. This option can be used to return to the normal mode of operation.

For information on override default ports or certificates, *see* [Override Web Services Ports or Certificate](#).

**Step 4** Click the Execution Limits tab to set the limits for the server.

Each limit has two settings. One that will warn and generate a warning event log in the Cisco Process Orchestrator system audit and the other will generate an error entry in the system audit. If the error level is reached the process will halt.

- Warning Level—Set the limit before sending a warning. If this is reached, a warning message is returned.
- Error Level—Set the limit before sending an error. If this is reached, a error message is returned.
- Activity Instances in Process Instance—Set the number of activity instances within a process instance.
- String Variable Size—Set the size limit for the string variable
- Event Instance Size—Set the size limit for the event instance

**Step 5** Click the Encryption tab to view a Uuencoded public key that can be used for external encryption of Hidden value strings.

- External encryption public key (uuencoded)—Contains the default key or the imported key.
- Import—Imports a public/private key pair file into the Process Orchestrator. You must have “Update” permission over the “Environment Settings” object in order to import new public/private key pair. When you click this button, a standard File Open dialog box displays, allowing you to point the console to an existing file. PFX file format is supported. It supports password protection on the file. Therefore, when importing a PFX file, a dialog box displays requesting the password of the file.
- Reset to default key—Click to reset the current key to the default key.

**Step 6** Click the **History** tab to view the history of changes made to an object.

- Created by—The user name of the person who created the object
- Created time—The date and time the object was created
- Time—The date and time the action occurred
- Change Type—The action that occurred
- User—The user name of the person that performed the action
- Orchestration Server—The name of the Orchestration server associated with the object

**Step 7** Click **OK**.

## Override Web Services Ports or Certificate

To override the web services ports or certificates. You must find the element you want to update or override in the server configuration file, under **Tidal.Automation.Engine.Master.Properties.Settings**.

Use the following to find the element in the server configuration file:



**Note** By default, the value for ports is -1.



**Note** By default, the certificate subject is with no name (empty string). This means there is no override at the process orchestrator server level.

**SOAP Web Service:**

- NonsecuredHttpPort
- SecuredHttpPort
- ServerOverrideSOAPCertSubject

**REST Web Service:**

- NonsecuredRESTPort
- SecuredRESTPort
- ServerOverrideRESCertSubject

For Example:

```
<setting
  name="ServerOverrideSOAPCertSubject"
  serializeAs="String">
  <value>myserver_name.mydomain.com</value>
</setting>
<setting
  name="NonsecuredRESTPort"
  serializeAs="String">
  <value>51528</value>
</setting>
```

## Updating the Product License

Cisco Process Orchestrator is packaged with a trial license that is valid for a specified number of days. The trial license can be used until the license expires or is updated with a permanent license.

After the trial license expires, you must enter the appropriate license information (the license must be updated to a permanent license) to continue using the product.

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- Step 1** From the File menu, select **Update License** to display the License Information panel.
- Step 2** Enter the appropriate information, including:
- Customer Name— Name of the individual client or department. This field is customer-specified and is not case-sensitive.
  - Company Name— Name of the organization as provided by Cisco. The company name must be entered exactly as provided by Cisco. This field is case-sensitive.
  - License code—Product license code as provided by Cisco. The license code must be entered exactly as provided by Cisco. This field is not case-sensitive.
- Step 3** Click **Next**.
- Step 4** Select the **I agree** radio button, then click **Next**.
- Step 5** When the **Completing the Update License Wizard** panel displays, click **Finish**.

**Step 6** When the **License was successfully updated** dialog box displays, click **OK**.

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## Managing Time Zone Properties

Use the Administration > Time Zones view to display the time zones that ship with the product. The time zones are used when specifying a schedule trigger for a process. The time zones cannot be modified. However, you can add a description to the time zone properties and enable or disable the time zones. If a time zone is disabled, it will not be available for selection when defining schedule properties.

You can update the properties of a specific time zone using the Time Zone Properties property sheet. From this property sheet, you can enter a description for the time zone and enable or disable the time zone. Click the **Used By** tab to display the processes or schedule definitions that reference the time zone.

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**Step 1** Choose **Administration > Time Zones**, right-click a time zone, then choose **Properties**.

**Step 2** In the [time zone] Properties dialog, enter the appropriate information, including:

- **Name**—The Greenwich Mean Time (GMT) name for the time zone and the location where the time zone is in effect

**Step 3** Click **Next**.

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## Managing Database Settings

Use the Administration > Database Settings view to create and manage the database connections included in the product.

For example, you can:

- Choose **Database Settings > Process Database** to set the database grooming settings properties for the processes database. This dialog also contains the Groom Now option that allows you to manually start the database grooming process.
- Choose **Database Settings > Report Database** to import reports, view database properties, and delete the database from the product.

To view database properties, highlight the appropriate database, right-click and choose **Properties**.

To manage the database connections:

**Step 1** Choose **Administration > Database Settings**.

**Step 2** Choose one of these database options:

Database	Description
Process Database	The process database displays the properties for the Process Orchestrator performance database. For information about configuring the grooming settings of the process database, see <a href="#">Managing the Process Database</a> .
Report Database	<p>The report database generates reports for viewing process execution history and to audit process changes.</p> <p><b>Note</b> You must be logged in with an account that has administrator privileges on the machine where the report database is being created, whether it is the local machine or a remote machine. Your user account must also have Reporting Services privileges to create or modify the reports.</p> <p>For information about managing reports, see <a href="#">Managing the Report Database</a>.</p>

## Managing the Process Database

The Process Database is created during the installation process, but only the default size of the data files is determined. Use the Process Database Properties property sheet to determine the amount of data that is archived in the database files before being deleted from the system.

To configure the database settings:

**Step 1** Choose **Administration > Database Settings**.

**Step 2** Highlight **Process Database**, right-click and choose **Properties**.

**Step 3** In the Process Database Properties property sheet, click the **Configuration** tab.

**Step 4** Choose one of the following options:

- To start the grooming process immediately, click **Groom Now**.
- To modify the database grooming settings for the automation database server, specify a value for the grooming fields, then click **OK**.

Field	Description
Configuration Audit Grooming	<b>Groom configuration audit data older than</b> Enter the number of days before configuration audit data is deleted from the database.
Process Instances Grooming	<b>Groom completed process instances older than</b> Enter the number of days before completed process instance data is deleted from the database.
Task Grooming	<b>Groom completed tasks older than</b> Enter the number of days before completed task data is deleted from the database.  <b>Groom task audit data older than</b> Enter the number of days before the task audit data is deleted from the database.

## Managing the Report Database

Process Orchestrator supports two reporting technologies:

- **SQL Server Reporting Services.** Customers who install Microsoft SQL Server as their chosen database platform can add the Reporting Services technology for free by simply specifying the component during SQL Server installation. SQL Server Reporting Services is only supported for Process Orchestrator databases hosted on an SQL Server.

SQL Server Reporting Services reports are XML based report definitions that include report data and report layout elements. On a client file system, report definitions have the file extension .rdl. After a report is published, it is a report item stored on the report server or SharePoint site. Reports are one part of the server-based reporting platform provided by Reporting Services.

With Reporting Services, you can create interactive, tabular, graphical, or free-form reports from relational, multidimensional, or XML-based data sources. You can publish reports, schedule report processing, or access reports on-demand. Reporting Services also enables you to create ad hoc reports based on predefined models, and to interactively explore data within the model. You can select from a variety of viewing formats, export reports to other applications, and subscribe to published reports. The reports that you create can be viewed over a Web-based connection or as part of a Microsoft Windows application or SharePoint site. Reporting Services provides the key to your business data.

- **SAP BusinessObjects.** BusinessObjects is the only solution that supports reporting against an Oracle Process Orchestrator database.

The reporting technology is installed separately from the product. Typically a reporting installation spans Process Orchestrator servers.

To configure the database settings:

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- Step 1** Choose **Administration > Database Settings**.



- Step 2** Highlight **Report Database**, right-click and choose **Properties**.
- Step 3** Click the **Connection** tab to view the properties of the database server.
- Step 4** In the Report Database Properties property sheet, click the **Configuration** tab and view or modify the database grooming settings that determine when specific data is deleted from the database after specific amount of months.

## Viewing the SQL Server Connection Properties

- Step 1** Choose **Administration > Database Settings**.
- Step 2** Highlight **Report Database**, right-click and choose **Properties**.
- Step 3** Click the **Connection** tab and choose the appropriate SQL Server database type.

Field	Description
Server name	Display-only. Name of the reporting server.
Database name	Display-only. Name of the reporting database
User	User name assigned to the account for logging on to the SQL server.
Password	Password assigned to the user account for logging on to the SQL server. Check the check box to enable the Password field.
Domain	Name of the domain for the user account
Reports URL	URL of the reporting database report

## Viewing the Oracle (Oracle Authentication) Connection Properties

- Step 1** Choose **Administration > Database Settings**.
- Step 2** Highlight **Report Database**, right-click and choose **Properties**.
- Step 3** Click the **Connection** tab and choose the Oracle (Oracle Authentication) database type.

Field	Description
Host	Display-only. Name of the Oracle server where the database resides.
SID	Display-only. Oracle system ID used to identify the Oracle database.
Port	Display-only. Port number used to access Oracle database.
User/Schema	Display-only. Name of the reporting database.
Password	Password assigned to the user account for logging on to the Oracle database server.

## Viewing the Oracle via TNS (Oracle Authentication) Connection Properties

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- Step 1** Choose **Administration > Database Settings**.
- Step 2** Highlight **Report Database**, right-click and choose **Properties**.
- Step 3** Click the **Connection** tab and choose the Oracle (Oracle Authentication) database type.

Field	Description
Host	Display-only. Name of the Oracle server where the database resides.
TNS Alias	Display-only. Service name alias used for the TNS connection.
User/Schema	Display-only. Name of the reporting database.
Password	Password assigned to the user account for logging on to the Oracle database server.

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## Viewing the Oracle via Service name (Oracle Authentication) Connection Properties

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- Step 1** Choose **Administration > Database Settings**.
- Step 2** Highlight **Report Database**, right-click and choose **Properties**.
- Step 3** Click the **Connection** tab and choose the Oracle (Oracle Authentication) database type.

Field	Description
Service name	Display-only. Service name alias used for the Oracle Single Client Access Name (SCAN)
Host	Display-only. Name of the Oracle server where the database resides.
Port	Display-only. Port number used to access Oracle database.
User/Schema	Display-only. Name of the reporting database.
Password	Password assigned to the user account for logging on to the Oracle database server.

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## Creating a Reporting Database Connection

The Process Orchestrator Reporting database is initially created during the installation process. There are occasions when the report database connection may need to be removed and then re-connected.

### Before You Begin

- You must be logged in with an account that has Administrator rights on the machine where the report database is being created, whether it is the local machine or a remote machine.
- You must also have Reporting Services permission to create or modify the reports as create or modify permission over the Report Database object within Cisco Process Orchestrator.

To create the report database connection:

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- Step 1** Choose **Administration > Database Settings**, right-click **Report Database** and choose **Create Process Orchestrator Reporting Database**.
- The Welcome to the Report Database Configuration Wizard panel displays. Click **Next**.
- Step 2** The fields on the New Process Orchestrator Reporting Database panel (excluding the Password field) are automatically populated with the name of the local server and the credentials of the currently logged in user. Use *one* of the following methods:
- To use the credentials that are auto-populated for the default user, enter the password in the Password field.
  - Specify the credentials for a different user, then click **Next**.
- Step 3** The fields on the Database Settings panel are automatically populated with the default locations and data grooming settings for the database. Use *one* of the following methods:
- To use the information that is auto-populated, click **Next**.
  - To modify the data and transaction log file settings for the new database, specify the appropriate information, then click **Next**.
- Step 4** When the dialog box indicates that the database has been successfully created, click **Next**.
- Step 5** Verify the information and click **Finish** to complete the procedure and close the wizard.
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## Importing Reports into SQL Reporting Services

During the Core Automation Pack import process, SQL Server Reporting Services report definition files are copied to the file path determined on the Core Report panel. To view the reports in SQL Server Reporting Services Report Manager, the report definition files must be imported into the Report Manager using the Report Database Import Report wizard.

Use the Import Reports process to import new reports into the report database.

### Before You Begin

- To import reports, you must be logged in with an account that has Administrator rights on the machine where the report database is being created, whether it is the local machine or a remote machine.
- Your account must also have Reporting Services permission to create or modify the reports as create or modify permission over the Report Database object within Process Orchestrator.

To import reports:

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- Step 1** Choose **Administration > Database Settings**, right-click **Report Database** and choose **Import Reports**.
- The Report Settings panel displays.
- Step 2** On the Report Settings panel, specify the following information to define the server and credentials for importing reports:
- Reports Server URL
  - Enter the address for the SQL Server Reporting Services report server.
  - Access Report Server via Hidden value Socket Layer (SSL)
  - Check this check box if SSL protocol is used to access the report server.
  - Database Type
    - Select the type of database based on the authentication method that is used to log on to the database. The following options are available:
    - SQL Server (Integrated Windows Authentication)
  - SQL Server (SQL Authentication)
  - User
  - Enter the name assigned to the user account that is used to connect to the report database.
- Step 3** After the reports have been imported, click **Next**.
- Step 4** Verify the URL of the report server, then click **Finish**.
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## Importing Reports into BusinessObjects

During the Core Automation Pack import process, Business Intelligence Archive Resource (BIAR) files are copied to the file path determined on the Core Report panel. To view the reports in BusinessObjects InfoView, the BIAR file must be imported onto the BusinessObjects server using the BusinessObjects Import Wizard.

### Before You Begin

To import BIAR files, you must be logged in with an account that has the appropriate permissions on the Business Object server, whether it is the local machine or a remote machine.

Use the following steps to import reports into BusinessObjects.

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- Step 1** Choose **Start > All Programs > BusinessObjects XI.3.1 > BusinessObjects Enterprise > Import Wizard**.
- Step 2** From the Welcome to the Import Wizard panel language drop-down list, choose the appropriate language to use to import the reports (English is the default), then click **Next**.
- Step 3** On the Source environment panel, specify the environment to where the wizard will import the appropriate user and object information, then click **Next**.

The fields in the lower pane changes based on the selection.

Field	Description
Source	From the drop-down list, choose <b>Business Intelligence Archive Resource (BIAR) File</b> .
BIAR file	Enter the appropriate file path or click “...” to locate the BIAR file on the computer.

- Step 4** On the Destination environment panel, specify the appropriate information for Business Object Enterprise XI 3.1, then click **Next**.

Field	Description
CMS Name	Enter the name of the Business Object Enterprise XI 3.1 destination CMS If the CMS is running a particular port, add a colon and the port number to the end of the CMS name.
User Name	Enter the name of a user with import permissions. The default is typically an administrator.
Password	Enter the password of the associated user name
Authentication	Select the type of authentication appropriate for the CMS and the user who will be used to import the reports. The default is <i>Enterprise</i> .

- Step 5** On the Select objects to import panel, choose the appropriate items to import into your Business Object Enterprise XI 3.1 server, then click **Next**.

- Step 6** On the Import Scenarios panel, select the appropriate radio button for handling scenarios where the objects already exist in the destination environment, then click **Next**.

Import Scenario	Description
Update the destination object. In case of name conflict, rename it.	If the Import Wizard finds an object in the destination environment with the same source objects unique identifier (CUID), it updates the destination object.  If the Import Wizard does not find an object in the destination environment with the same CUID but it finds an object with the same name, the Import Wizard imports the object from the source environment and then renames the object.
Update the destination object. In case of name conflict, do not import it.	If the Import Wizard finds an object in the destination environment with the same CUID, it updates the destination object.  If the Import Wizard finds an object in the destination environment with the same name but different CUID, the Import Wizard does not import the object from the source environment.
Do not import the object.	If the Import Wizard finds an object in the destination environment with the same CUID, the Import Wizard does not import the object.

- Step 7** On the Incremental import panel, uncheck the check boxes next to options that perform the following imports as appropriate, then click **Next**.

- To import report objects without overwriting dependent objects that already exist in the destination environment.
- To import report objects without importing a universe or connection that would overwrite a universe or connection in the destination environment.

**Step 8** Review the summary information on the Import Wizard panel, then click **Next**.

**Step 9** On the Users and groups panel, check the check boxes to import the appropriate specific users and groups, then click **Next**.

**Step 10** On the Custom Access Levels panel, check the appropriate check boxes to import custom access level, then click **Next**.




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**Note** If you import a user and an object, the Import Wizard imports the rights of that imported and does not exist in the destination environment, the Import Wizard gives the individual rights specified in the level on the object for the user.

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**Step 11** On the Categories panel, choose the appropriate categories to be imported, then click **Next**.

- For large document domains, you can import incrementally and import documents one category at a time.
- To import all the objects associated with the category, check the **Import all objects that belong to the selected categories** check box.

**Step 12** On the Folders and objects panel, select the folders and objects to import, then click **Next**.

- Click **Select All** to check all check boxes of the folders and objects displayed.
- To import all instances of each selected object, check the **Import all instances of each selected object** check box.

**Step 13** On the Select application folders and objects panel, select the application folders and objects to import, then click **Next**.




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**Note** If the selected folders and objects exist on the destination system, they will be updated using the source system as a reference.

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**Step 14** In the Import options for universes and connections panel:

- Select *one* of the following import radio buttons for universe objects:
  - Import all universes and connection objects (Default)
  - Import all universes and only connection objects used by these universes
  - Import the universes and connections that the selected Web Intelligence and Desktop Intelligence documents use directly. In the next dialog box, you can select additional universes that are not used by any imported document.
- To import universe overloads, check the **Keep universe overloads for imported users and groups** check box.

If you are importing universe overloads, you must also choose the users, groups, and universes during previous steps in the Import Wizard. You must also choose to overwrite existing objects in the Incremental import panel. If you did not choose these options, click **Back** until you get to the appropriate panel.

- c. If you choose to import users and groups, universe overloads, and other objects and do not want to overwrite all of the object rights for the users and groups and objects that you've selected, use *one* of the following methods:
    - Ensure that you choose only the universes that you want to import and then import the other objects in another import process.
    - Delete the universe overload in the destination environment and then uncheck the **Overwrite existing objects** and **Overwrite object rights** check boxes in the Incremental import panel. In this case, the Import Wizard imports only the universe overloads that do not already exist in the destination environment.
  - d. Click **Next**.
  - e. If you selected either of the first two options, the Import options for publications panel displays. Skip to [Step 15](#) to continue.
  - f. If you selected the third option, the Universe folder and universes panel displays. Choose the appropriate universes and universe folders.
    - If the selected source environment is other than BusinessObjects 5.x or 6.x, the universes that are linked to specific documents cannot be cleared from the list. You can choose additional universes that are not used by any imported document.
    - If no universe is found, the associated documents will not be imported and a warning message appears. If this occurs, link the documents to a universe, republish the documents to the repository, and retry the import.
  - g. Click **Next**.
- Step 15** On the Import Options for Universes panel, choose the appropriate profile and publication recipient radio buttons, then click **Next**.

Option	Description
Select import option for importing profiles	<ul style="list-style-type: none"> <li>• Import all profiles</li> <li>• Import profiles used by selected publications</li> </ul>
Select import option for importing publication recipients	<ul style="list-style-type: none"> <li>• Import recipients used by selected publications</li> <li>• Do not import recipients</li> </ul>

- Step 16** On the Remote Connections and Replication Jobs panel, choose the appropriate remote connections and replication jobs to import, then click **Next**.
- Step 17** On the Ready to import panel, click **Finish**.

## Configuring the BusinessObjects Connection for the Process Orchestrator Report Database

BusinessObjects can support a Process Orchestrator Report Database running on either an SQL server or Oracle. Use the following steps to configure the BusinessObjects reporting connection to the Process Orchestrator reporting database.

### Before You Begin

- If you are running on an SQL server:

- Verify that the Microsoft SQL native client or the Oracle client is installed.
- On the reporting database, verify that the named pipes are enabled. To enable the named pipes, use MS SQL Configuration Manager.
- For additional information on the prerequisites, refer to the [SQL server information](#) on the Microsoft Developer Network.

To configure the BO reports connection:

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- Step 1** Choose **Start > All Programs > BusinessObjects XI.3.1 > BusinessObjects Enterprise > Designer**.
  - Step 2** On the User ID dialog box, enter the appropriate credentials, then click **OK**.
  - Step 3** On the Universe Designer dialog box, choose **Tools > Connections**.
  - Step 4** From the Connections List, highlight **Process OrchestratorReporting**, then click **Edit**.
  - Step 5** On the Edit Process Orchestrator Reporting Connection dialog box, in the Authentication Mode list, verify that **Use specified username and password** is selected.
  - Step 6** Specify the reporting database information, then click **Next**.
  - Step 7** Verify the information on the **Configuration Parameters** and the **Custom Parameters** panels, then click **Finish**.
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## Accessing SQL Server Reporting Service Reports

Process Orchestrator provides SQL Server Reporting Services reports required by managers and auditors as well as reports required by developers of process automation. In general, the data that is provided for these diverse audiences is the same. What differs is the granularity and level of aggregation of this data and the specific data that is the focus of a given report.

### Before You Begin

- Access to any report is controlled and available only to authorized users.

To access reports from your web browser:

- 
- Step 1** In the Address bar of your web browser, enter the following URL:  
`http://<ReportServer>/Reports`  
 where <ReportServer> is the name of the server hosting the reports.  
 If you use SQL server named instances, the URL and Report folder include the instance name. For example, if you enter <SQLserver>\NamedInstance:
    - The URL will be `http://<ReportServer>/Reports_NamedInstance`.
    - The report folder will be located at `Cisco Process Orchestrator Reporting > <ReportServer> > NamedInstance > <ReportDBName>`.
  - Step 2** Click **Cisco Process Orchestrator Reporting > [Report Server] > [Report DB Name]**.
  - Step 3** On the Process Orchestrator Reporting Database Report Manager home page, click **Core** to view the Core Process Orchestrator report folders.  
 The available reports and a brief description of the information that is generated by each report is displayed.



- Step 4** Click the report name to enter the search criteria and generate the report.
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## Accessing Reports in BusinessObjects InfoView

Process Orchestrator provides reports required by managers and auditors as well as reports required by developers of process automation. In general, the data that is provided for these diverse audiences is the same. What differs is the granularity and level of aggregation of this data and the specific data that is the focus of a given report.

### Before You Begin

- Access to any report is controlled and available only to authorized users.

To access Process Orchestrator Core reports in Java Infoview:

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- Step 1** On the BusinessObjects client machine, choose **Start > All Programs > BusinessObjects XI 3.1 > BusinessObjects Enterprise > BusinessObjects Enterprise Java InfoView**.
- Step 2** In the SAP BusinessObjects application, enter your user credentials to log on to InfoView.
- Step 3** Choose **Documents List > Public Folders > Cisco Process Orchestrator > Core > Auditing (or) Operations**.
- Step 4** To view a report, double-click on the report name.
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## Modifying the Report Database

In some cases, you might need to move the SQL Server Reporting Services server to another location. You must remove the current Report Database connection and connect to the new server using the Report Database Import Report wizard.

To modify the report database:

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- Step 1** Choose **Administration > Database Settings**.
- Step 2** Highlight **Report Database**, right-click and choose **Remove Cisco Process Orchestrator Reporting Database Connection**.
- Step 3** To connect to the new server, see [Creating a Reporting Database Connection](#).
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## Configuring Security

As a Process Orchestrator administrator, you can limit users access to only a subset of Process Orchestrator processes or limit a whole group to read-only access for specific objects. For example, the Process Orchestrator administrator can configure members of the Accounting Process Authors group

with the ability to only create, delete, modify or schedule processes in the Accounting category and can only act on targets that represent the accounting services. However, those members of that group will not be allowed to view or modify any other processes or targets in Process Orchestrator.

Using the Security view, you can determine what Process Orchestrator objects users are allowed to view, create, or modify.

If the user has permissions to view (or edit) only a subset of Process Orchestrator objects, when the Process Orchestrator user interfaces (Console, CLI, or Web Service) display Process Orchestrator objects to the user, the display will only show those objects that the user has permissions to view or modify.

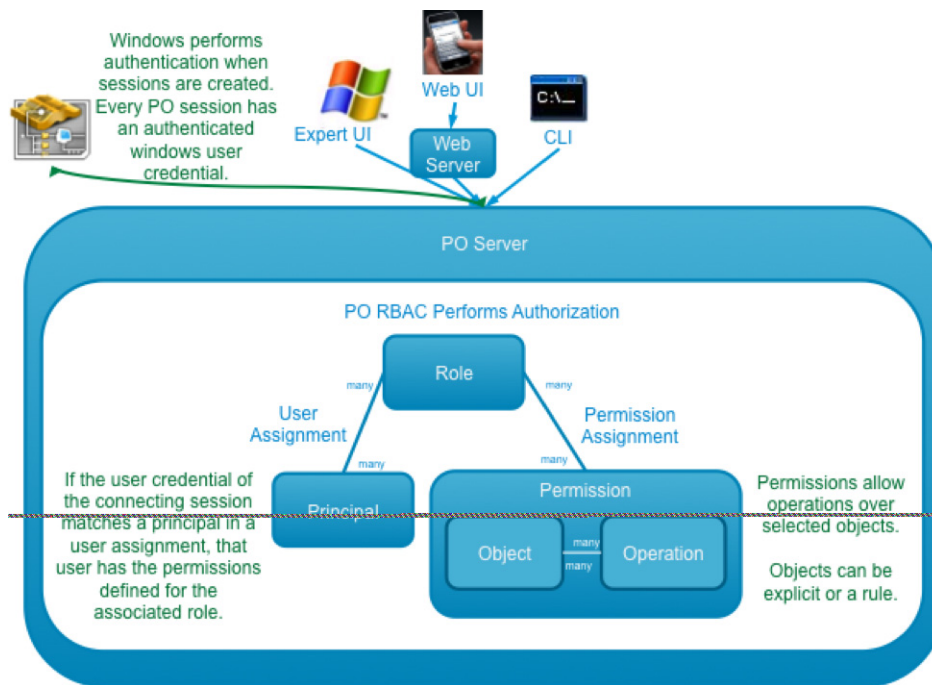
When the user does not have sufficient permissions in Process Orchestrator to perform an operation and attempts to perform that operation, Process Orchestrator will generate an error, as well as log an audit failure event to the event log.

## Role-Based Access Control (RBAC)

In Process Orchestrator, authorization is performed using a Role-Based Access Control System. Roles are a collection of permissions. Each permission pairs a set of operations that can be performed over some set of objects. A user assignment gives end users the ability to perform the role.

Typically, roles are defined according to a standardized job function within IT. Examples might include “Level 1 Helpdesk,” “Level 2 Helpdesk,” “Human Resources,” “Network Configuration,” “SAP Basis Expert,” and so on. Security groups already in the directory for the users in these job functions are then typically assigned to the roles.

Figure 10-1 Process Orchestrator Role-Based Access Control



Permissions define what operations can be performed over what objects. This defines the rights and associates them with set of Process Orchestrator objects. This is similar to file permissions (such as read or update).

- Operations are things such as Cancel, Change Owner, Create, Delete, Read, Start, Update, and Use. Most other Operations automatically allow Read. Change Owner automatically allows Update and Read.
- Objects specify rules that match elements from the functional model, such as Processes, Targets, and Runtime Users. Specifically, several types of object rules are supported:
  - Object List—Allows rights only to specified objects in the list.
  - Object Type—Allows rights to all objects of that type (for example, all targets or all processes).
  - Owner Security—Allows rights to all objects of a specified type that are owned by a specific principal (user or group in Active Directory).

A User Assignment is a link to a security principal. The user assignment is the thing that is defined in Process Orchestrator, since it defines the rule for who is in the Role. The Principal is actually in an external directory, so the user assignment is a reference to the directory.

## Predefined Security Roles

Cisco Process Orchestrator provides predefined security roles that ship with the product and cannot be modified. Custom user roles can be created using the Administration view, but the following roles are defined by default:

Role	Description
Administrators Role	These users have access to all functionality in the product. Users can view or modify any definition, process or setting. Only a small number of users are assigned this role. These users have permissions to modify adapter settings, import automation packs, and configure databases.
Auditors Role	The user can view any definition or instances, such as running processes, but are not allowed to modify any of the objects.
Create Ownership Role	All users are assigned to this group. It provides full control over any objects the user owns.

Role	Description
Definition Role	<p>This is a user who can define processes. The user can:</p> <ul style="list-style-type: none"> <li>• View all Operations information (Activity Views, Process Views and Auditing)</li> <li>• Start adhoc processes</li> <li>• Cancel running processes</li> <li>• View/update definitions</li> </ul> <p>The user <i>cannot</i> update administration settings.</p>
Operators Role	<p>This is a classic role for a level 1 Service Desk employee, executing workflows. The user can:</p> <ul style="list-style-type: none"> <li>• View all Operations information (Activity Views, Process Views and Auditing)</li> <li>• Start ad-hoc processes</li> <li>• Cancel running processes</li> </ul> <p>The user <i>cannot</i>:</p> <ul style="list-style-type: none"> <li>• Update definitions</li> <li>• Update administration settings</li> </ul>

## Predefined Security Permissions

In the Security Role Properties property sheet, the Operations tab displays the list of permissions included and/or available for inclusion into the security role. Check the check boxes for the appropriate powers for the security role.

## Object Owners

Process Orchestrator objects have an owner. For example, Process Orchestrator targets, processes, calendar, target group, global variables, etc. all have an owner field. Owners are security principals; by default, they reflect the user who created an object. However, they can be set to any Active Directory security principal. In addition, in the preferences section of the UI, users can specify a security principal such as a group name to use for all objects they create. This concept is useful in team development.

One type of RBAC object definition within an RBAC permission is an Owner security permission. This has two possible settings:

- The *connected user* matches objects the user owns, either directly or indirectly. For example, if the user running the Process Orchestrator console is a member of a group specified in an owner field, the permission would match that object.
- *Exactly the specified user* matches objects where the user is an explicit match.

This feature can be used to give a simple yet powerful way to say users can act on objects they create. It can also be used to specify access to objects according to the security principal of the connecting user. If groups are used for owner fields rather than the ID of the user who created the object, users of that group will have access. This is very useful in team development scenarios.

Object views have an optional column that can be used to manage object ownership.

## Changing the Owner of a Security Role

With the appropriate rights, ownership of a security role can be changed using the Process Orchestrator security feature.

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- Step 1** Choose **Administration > Security**, highlight an existing security role, right-click and choose **Properties**.
- Step 2** Click the **General** tab, scroll to the **Owner** field, and to the right of each field, click **Browse**.
- Step 3** To change the default object type in the Select this object type field:
- Click **Object Types**.
  - In the Object Types dialog box, check the check box to the left of the appropriate object types, and click **OK**.
- Step 4** To change the server location for querying a user or group:
- Click **Locations** on the Select User or Group dialog box.
  - Expand the appropriate server name, choose the user or group, and click **OK**.
- Step 5** In the Enter the object name to select text field, enter the user name (domain\user name) or group and click Check Names.



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**Note** If there is a matching user name or group, it is displayed in the field. If there is not a match, a warning message displays.

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- Step 6** Click **Advanced** to enter additional query information.
- Step 7** In the Name field, enter the appropriate terms, and click **Find Now**.



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**Note** To generate more search results, leave the Name field blank and then click Find Now.

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- Step 8** In the Search Results pane, choose the appropriate user or group, and click **OK**.
- Step 9** Click **OK** to return to the Security Role Properties dialog box.
- The selected user name or group is displayed in the appropriate Owner field.
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## Removing Users from Security Roles

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- Step 1** Choose **Administration > Security**, highlight the appropriate security role, right-click and choose **Properties**.
- Step 2** Click the **User Assignment** tab.
- Step 3** Highlight the principal to be removed and click **Remove**, then click **OK**.
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## Modifying Security Permissions

With the appropriate rights, operations, objects, and owners can be added or removed from a security permission. There are three types of security permissions:

- **Operations**—The Operations tab displays all the operations in Cisco Process Orchestrator, such as Break Lock, Delete, Change Owner, and so on. Use this tab to add or remove an operation from the security permission.
- **Object Types**—The Object Types tab displays the top-level object types in Cisco Process Orchestrator, such as adapters, processes, targets, and global variables. Use this tab to add or remove an object type from the security permission.
- **Owner**—Use the Owner tab to modify the Windows security principal (either a user or a group) associated with the object and the permission. The permission is enforced upon the specified owner of the object.

For information about predefined security permissions, see [Predefined Security Permissions](#).

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**Step 1** Choose **Administrations > Security**.

**Step 2** Highlight the appropriate security role, right-click and choose **Properties**.

**Step 3** On the [Security Role] Properties property sheet, click the **Permissions** tab, highlight the appropriate security permission, then click **Edit**.

**Step 4** Click the following tabs:

- **Operations**—Use the Operations tab to modify the list of permissions to be included in the security role.

Check the check box to the left of the appropriate permission to define what actions a user assigned to the security role can have over the selected object types.

- **Cancel**— Allows the user to cancel process or activity instances
- **Change Owner**— Allows the user to change the owner of the object. Change ownership permission includes the Read permission and requires the Modify permission to change ownership on an object.
- **Create**—Allows the user to create new objects and specify all properties of the object.
- **Create permission** includes Change Owner and Read permissions. This permission is required to perform Copy or Import functions.
- **Delete**—Allows the user to delete objects
- **Update**—Allows the user to modify all properties of the object, except the owner.
- **Change Owner** is the permission required to change the owner of an object.
- **Read**—Allows the user to view all properties of an object.  
The Read permission along with the Create permission is the minimum level of permissions required to copy an object.
- **Break Lock**—Allows the user to break the lock on a process held by another user.
- **Start**—Allows the user to start process ad-hoc
- **Use**—Allows the user to reference objects. This permission is not available to all objects, but only for those that can be referenced.

For example, this permission on a target or target group would allow the user to run activities and processes against the target group.

- Object Types—Click to add or remove permissions from a specific object type.
- Owner tab—Click to modify the Windows security principal (either a user or a group) associated with the object and the permission. The permission is enforced upon the specified owner of the object.
  - Label—Assigns the permission to the currently connected Windows user
  - Exactly the specified user—Click the browse button to launch the Select User or Group dialog box and change the security principal for the object.

Step 5 Click **OK**.

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**Note** Removing an operation or object from the list is permanent. Click **Add** to add a new operation or object to the security permission.

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## Deleting a Security Role

Deleting the role deletes all associated permissions.



**Note** Removing the security role from the list is permanent. Choose **Administrations > Security**.

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Step 1 Highlight the appropriate security role, right-click and choose **Delete**.



**Note** The default security role cannot be deleted.

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Step 2 On the Confirm Security Role Delete dialog box, click **Yes** to delete the security role.

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