Cisco Process Orchestrator
Northbound Web Services Guide

Release 3.4
November 2016

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883
## Contents

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preface</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Audience</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Related Documentation</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Obtaining Documentation and Submitting a Service Request</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Configuring Cisco Process Orchestrator Web Services</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Configuring HTTP Settings in the Console</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Securing the Cisco Process Orchestrator Web service</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Enabling a Non-Encrypted Endpoint of the Web service</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Refreshing the Cisco Process Orchestrator Web service</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Process Web Service</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>CreateProcessEvent</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>EnableOrDisableProcess</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>ListProcessDefinitions</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Start[StartbyWebService]</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>StartProcessByName</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>Process Instance Web Service</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>GetInstanceStatuses</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>GetOutputVariablesGeneric</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>GetOutputVariablesFor[UniqueProcessName]</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>StopProcessInstance</td>
<td>14</td>
</tr>
<tr>
<td>5</td>
<td>Target Web Service</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Creating Targets</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Updating Targets</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>ViewingTargets</td>
<td>43</td>
</tr>
<tr>
<td>6</td>
<td>Runtime User Web Service</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Creating Runtime Users</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Updating Runtime Users</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>UpdateSnmpUserConfiguration</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>Viewing Runtime Users</td>
<td>54</td>
</tr>
<tr>
<td>7</td>
<td>Task Web Service</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Creating Tasks</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Updating Tasks</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>Viewing Tasks</td>
<td>71</td>
</tr>
<tr>
<td>8</td>
<td>System Web Service</td>
<td>73</td>
</tr>
</tbody>
</table>
GetPublicKey .................................................................................................................. 73
ImportEncryptionKeys ..................................................................................................... 73
GetEnvironmentInformation ............................................................................................ 73
Preface

The Northbound Web services documentation describes the Web services API used with Cisco Process Orchestrator. This documentation describes the XML formatting used to present the input and output of jobs processed via Web services as well as configuration of the http ports used to access the services.

Audience

The information in this guide is intended for experienced users; typically, your IT organization. With Cisco Process Orchestrator Northbound Web services, your IT developers can, for example:

- Start Cisco Process Orchestrator processes and monitor the started process until its completion.
- View the process instance information of a started process.
- Programmatically automate the process of creating targets, runtime user accounts, and tasks using the Web service.

Related Documentation

For more information about the Cisco Process Orchestrator and related products, see the Cisco Process Orchestrator Documentation Overview.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see What’s New in Cisco Product Documentation at:


Subscribe to What’s New in Cisco Product Documentation, which list all new and revised Cisco technical documentation, as an RSS feed deliver content directly to your desktop using a reader application. The RSS feeds are a free service.
Configuring Cisco Process Orchestrator Web Services

In Cisco Process Orchestrator, the end user can expose Northbound SOAP Web services into the Cisco Process Orchestrator server. The Web services are disabled by default. They can be configured from the Console.

Configuring Web Services Settings

Global Settings

The **Web Services** setting can be configured via the **File > Environment Properties > Web Services**

Users can configure the global settings for both secure (HTTPS) & non-secure (HTTP) REST web services. The settings will be applied to all Process Orchestrator servers in the same Process Orchestrator environment.

Securing the Cisco Process Orchestrator SOAP Web service

Cisco Process Orchestrator allows users the ability to modify the authentication for the HTTPs endpoints. Use the following steps to secure the Cisco Process Orchestrator SOAP Web service.

To enable the HTTPs Web service:

**Step 1** On the Cisco Process Orchestrator Console, choose **File > Environment Properties**. The Environment Properties dialog box displays.

**Step 2** Click the **Web Services** tab
Step 3 Check the Enable secure Web service (HTTPS) check box to configure the authentication for the HTTPS endpoint.
Step 4  Click **OK** to continue.

Step 5  Complete the following fields, as necessary.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTTPS port</td>
<td>Enter or verify the secure HTTPS port for the Cisco Process Orchestrator Web service. (Default: 61526)</td>
</tr>
<tr>
<td>HTTPS authentication mechanism</td>
<td>Choose the appropriate authentication for the Web service.</td>
</tr>
<tr>
<td>• Basic—sends a username and password as the method of authentication. It's the simplest method of authentication, but the least secure.</td>
<td></td>
</tr>
<tr>
<td>• Digest—sends cryptographic representation of the password rather than the password itself. This authentication method is more secure than basic authentication.</td>
<td></td>
</tr>
<tr>
<td>• 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.</td>
<td></td>
</tr>
<tr>
<td>Override default certificate</td>
<td>Specify the subject name of a valid certificate to be used by all Cisco Process Orchestrator servers in this environment. The certificate must be installed in the certificate store of the computers where Cisco Process Orchestrator server is installed.</td>
</tr>
</tbody>
</table>

Step 6  Click **OK** to save the settings.

**Enabling a Non-Encrypted Endpoint of the Web service**

Use the following steps to open a non-encrypted endpoint of the Cisco Process Orchestrator SOAP Web service.

To open a non-encrypted endpoint:

Step 2  Click the **Web Service** tab

![Environment Properties Dialog Box—Web Service Tab](image)

Step 3  Check the **Enable non-secure Web service (HTTP)** check box to unencrypt the HTTP endpoints.

Step 4  Click **OK** to continue.
Step 5  Complete the following fields, as necessary.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTTP port</td>
<td>Enter or verify the secure HTTP port for the Web service. (Default: 61527)</td>
</tr>
<tr>
<td>HTTP authentication mechanism</td>
<td>Choose the appropriate authentication for the Web service.</td>
</tr>
<tr>
<td></td>
<td>▪ Basic—sends a username and password as the method of authentication.</td>
</tr>
<tr>
<td></td>
<td>It's the simplest method of authentication, but the least secure.</td>
</tr>
<tr>
<td></td>
<td>▪ Digest—sends cryptographic representation of the password rather than</td>
</tr>
<tr>
<td></td>
<td>the password itself. This authentication method is more secure than</td>
</tr>
<tr>
<td></td>
<td>basic authentication.</td>
</tr>
<tr>
<td></td>
<td>▪ Ntlm—authentication protocol used on networks that include systems</td>
</tr>
<tr>
<td></td>
<td>running on the Windows operating system. This option can be used to</td>
</tr>
<tr>
<td></td>
<td>return to the normal mode of operation.</td>
</tr>
</tbody>
</table>

Step 6  Click **OK** to save the settings.

All transmissions through the chosen `NonsecureHttpPort` are unencrypted. Communications over the SSL-enabled ports (and between the server and Console) will all be unaffected by this setting.

### Refreshing the Cisco Process Orchestrator Web service

Click the **Refresh Web services** button to regenerate the dynamic Web service methods in the Northbound 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 with a Started By Web service trigger, the method would be StartMyProcess. Click the **Refresh Web services** button to regenerate the Northbound Web service so that the Process service can launch the new StartMyProcess call.

### Override Web Services Settings for Individual Process Orchestrator Server

Users can overwrite the web services global settings for individual Process Orchestrator Server via the server config file (Tidal.Automation.Server.exe.config). This file can be found in the Cisco Process Orchestrator install directory.

Note that the **Cisco Process Orchestrator Server** service (Service Name: Orchestrator Server) needs to be restarted for the server to pick up the changes done to the config file.

The following properties can be overwritten.

- **Non-secure SOAP Web Service Port**
  - Locate the following block of XML in the config file. Specify a new port number in the value tag

```
<setting
    name="NonsecuredHttpPort"
    serializeAs="String">
    <value>-1</value>
</setting>
```

- **Secure SOAP Web Service Port**
- Locate the following block of XML in the config file. Specify a new port number in the value tag

```xml
<setting
    name="SecuredHttpPort"
    serializeAs="String">
  <value>-1</value>
</setting>
```

- Secure SOAP Web Service Certificate
  - Locate the following block of XML in the config file. Specify a new certificate subject in the value tag

```xml
<setting
    name="ServerOverrideSOAPCertSubject"
    serializeAs="String">
  <value></value>
</setting>
```
Process Web Service

The Process Web Service allows users to start processes and retrieve information, such as the description, ID, and whether the process is enabled or disabled.

The WSDL for the Process Web service methods is: http://<server>:<port>/WS/Process?wsdl

CreateProcessEvent
Create a process event in Cisco Process Orchestrator.

Parameters
- eventSource (string) — source of the process event
- severity (string) — event severity as Error, Warning, Information, Success, or Failure
- description (string) — event description
- eventId (integer) — event Id
- category (string) — event category
- subject (string) — event subject
- parameters (string[]) — event parameters
- targetNameOrId (string) — name or Guid of a target

Return Type
None

EnableOrDisableProcess
Enable or disable a process definition in Cisco Process Orchestrator

Parameters
- processNameOrId (string) — name or Guid of a process definition
- enable (boolean) — flag to enable or disable a process

Return Type
None

ListProcessDefinitions
Enumerates all process definitions in Cisco Process Orchestrator

Parameters
- northboundOnly (boolean) — enumerate northbound processes only

Return Type
ProcessDefinition[]
Start[StartbyWebService]

Users can start any process that is defined in Cisco Process Orchestrator and contains a “Started by Web service” trigger. These Web services, which display in the list as Start[Started by Web service], are based on the names of the triggers in the process.

The input variables for the process are the parameters of each process listed. You can also specify the StartPointNameOrId parameter that sets a start point for the process.

The Web service publishes these processes as dynamic methods that can change as processes are added, removed, or the input variables are modified. The list of the processes changes each time the Web service is refreshed or restarted. See Refreshing the Cisco Process Orchestrator Web service.

StartProcessByName

Start a Cisco Process Orchestrator process using a single process name or process ID. This method can only start processes that contain a "Start by Web service" trigger. To ensure the process can start on the trigger, be sure to add the "Start by Web service" trigger to the process during the authoring phase.

When starting a process, users have the option of overriding the target (or targets) that the job runs against. The user can specify either a single target or a single target group. If a target group is selected, the server will broadcast the job to all members of that target group.

If no target is specified, then the process will execute against the default target selection of the process.

Parameters

- **processNameOrId** (string)—display name or Id of the process
- **targetOverride** (string)—display name or Id of a target to specify a non-default target for the run
- **startPointNameOrId** (string) —point at which a process can be started

Return Type

Guid[]

Exceptions

DeserializationFailed if an improper type of variable parameter is provided to this call.

If no process is found with the Id or display name matches the specified “processNameOrId”. An exception with the following error message will be raised.

"The request to run a process with name <name> could not be completed because no process with this name was found."
Process Instance Web Service

This Web service allows users to stop processes and retrieve information, such as whether the process is completed and any input and output variables.

The WSDL for this Web service method is: http://<server>:<port>/WS/ProcessInstance?wsdl.

GetInstanceStatuses
Checks the status of process instances that have run or are currently running

**Parameters**

instanceIds (Guid[])—Ids of the instances with the statuses to be retrieved

**Return Type**

InstanceStatus[]

GetOutputVariablesGeneric
Retrieves all output variable values of a process instance. The values include their values, names, and types.

**Parameters**

instanceId (Guid)—process Instance ID in guid format

**Return Type**

VariableValue[]

GetOutputVariablesFor[UniqueProcessName]
Retrieves output variables for a specific process instance. These processes show up in the list as GetOutputVariablesFor[UniqueProcessName].

The Web service publishes these processes as dynamic methods that can change as processes are added, removed, or the input variables are modified. The list of the processes changes each time the Web service is refreshed or restarted.

**Parameters**

processInstanceId (Guid)—process Instance ID in Guid format

**Return Type**

VariableValue[]

StopProcessInstance
Stop a running process instance in Cisco Process Orchestrator.

**Parameters**

instanceId (Guid)—process Instance ID in Guid format

**Return Type**

None
Target Web Service

This Web services allows users to create, update, and view targets for specific Cisco Process Orchestrator target types.


Creating Targets

The following topics describe how to create targets for specific Cisco Process Orchestrator target types.

CreateActiveDirectoryDomainTarget

Specifies the connection information for the Active Directory Domain server used for processes to run against

Parameters

- defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target
- Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- ConnectionString (string)—Active Directory authentication string
- Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- Name (string)—display name of the target
- Description (string)—text that describes the target
- Organization (string)—name of the company that supports the target

Return Type

String ID of the new target

CreateAMQPBrokerTarget

Specifies the connection information for the AMQP Broker server used for processes to run against

Parameters

- defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target
- Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- Host (string)—host name of the AMQP Broker server
- Port (string)—port number used by the protocol
- VirtualHost (string)—name of the virtual host that specifies the namespace for entities (exchanges and queues) referred to by the protocol
- IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors
- UseSSL (boolean)—indicates whether the target should use SSL
- Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type

String ID of the new target

CreateAzureServerTarget

Specifies the connection information for the Azure server used for processes to run against

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

Namespace (string)—namespace for Azure Service Bus

ServiceBusForWindowsServer (string)—name of the host that specifies the namespace for entities referred to by the protocol

RuntimePortNumber (string)—runtime port number used by the protocol

ManagementPortNumber (string)—management port number used by the protocol

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type

String ID of the new target

CreateCiscoServicePortalTarget

Specifies the connection information for the Cisco Prime Service Catalog server used for processes to run against

Parameters

DefaultRuntimeUserNameOrId (string)—display name or unique identifier of the runtime user used to access Request Center

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

ServiceLinkRuntimeUserNameOrId (string)—display name or unique identifier of the runtime user used to access Service Link.

Server (string)—host name or IP address where Request Center resides.

ServiceLinkServer (string)—host name or IP address where Service Link resides.

UseSSL (boolean)—indicates whether the target should use SSL to access Request Center

ServiceLinkUseSSL (boolean)—indicates whether the target should use SSL to access Service Link
**IgnoreCertificateErrors** (boolean)—indicates whether the target should ignore any certificate errors when accessing **Request Center**

**ServiceLinkIgnoreCertificateErrors** (boolean)—indicates whether the target should ignore any certificate errors when accessing **Service Link**

**ServiceLinkPort** (int32)—port number to access **Service Link**

**RequestCenterPort** (int32)—port number to access **Request Center**

**PublicKeyGuid** (Guid)—ID to the entry that contains the Cisco Process Orchestrator encryption public key stored in Cisco Prime Service Catalog

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target

### CreateCiscoUCSDirectorTarget

Specifies the connection information for the Cisco UCS Director server used for processes to run against.

**Parameters**

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**Server** (string)—host name or IP address of the Cisco Prime Service Catalog server

**UseSSL** (boolean)—indicates whether the target should use SSL

**IgnoreCertificateErrors** (boolean)—indicates whether the target should ignore any certificate errors

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target

### CreateCloudCenterServerTarget

Specifies the connection information for the Cisco Cloud Center server used for processes to run against.

**Parameters**

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

## A printed copy of this document is considered uncontrolled. Refer to the online version for the controlled revision.##
Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

HostName (string)—host name or IP address of the Cisco Cloud Center server

HttpPort (string)—port number used to access Cisco Cloud Center server

IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateEmailIMAPTarget
Specifies the connection information to an IMAP email server

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

EmailServer (string)—DNS name or IP address of the IMAP server

Port (string)—port number used by the protocol

EnableTLSAuthentication (boolean)—indicate whether Transport Layer Security (TLS) authentication is enabled

EnableSSLe (boolean) – indicate whether SSL is enabled

PollingInterval (int) – interval used to query the email server

IgnoreCertificateError (boolean)—indicates whether the target should ignore any certificate errors

EnableServerPush (boolean)—indicates whether to poll for emails from email server or subscribe to email server for email notification. Note that not all email servers have this option enabled.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateEmailPOP3Target
Specifies the connection information to a POP3 email server

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target
Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

EmailServer (string)—DNS name or IP address of the POP3 server

Port (string)—port number used by the protocol

EnableTLSAuthentication (boolean)—indicate whether Transport Layer Security (TLS) authentication is enabled

EnableSSL (boolean) – indicate whether SSL is enabled

PollingInterval (int) – interval used to query the email server

IgnoreCertificateError (boolean)—indicates whether the target should ignore any certificate errors

EnableServerPush (boolean)—Not applicable

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateEmailSMTPTarget
Specifies the connection information to a SMTP email server

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

SMTPServer (string)—DNS name or IP address of the SMTP gateway to use for sending email messages

SMTPPort (int32)—port used in the DNS name or IP address of the SMTP gateway

Sender (string)—email message address of the sender

CredentialRequired (boolean)—indicates if authentication credentials are required.

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target
CreateESXTarget

Specifies the connection information to an ESX/ESXi server

VMware ESX and VMware ESXi are "bare-metal" hypervisors, and are installed directly on top of the physical server and partitioned into multiple virtual machines that can run simultaneously, sharing the physical resources of the underlying server.

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

VirtualCenterESXServerName (string)—host name or IP address of the Virtual Center/ESX Server

VirtualCenterESXServerServicePort (int)—port number used to access the Virtual Center/ESX Server service

IsHttps (bool)—indicates VMware target is configured for HTTPS

IsSSLCertificateErrorIgnored (boolean)—indicates whether the target should ignore any SSL certificate errors

ConnectionLanguage (string)—default language to use when connecting to the server

UseDefaultLanguage (boolean)—indicates whether the target should use the default language when connecting to the server

ConnectionOverrideLanguage (string)—alternative language to use when connecting to the server

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

ReturnType

String ID of the new target

CreateNetworkDeviceModuleTarget

Some Cisco network devices are chassis systems that can hold other network devices such as ACE, FWSM, on boards that plug into the chassis.

This method creates a network device module target which can be used as a dependent of a terminal target, as well as, an independent network device target that can be used by network processes for execution.

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

SwitchNumber (string)—switch number for the chassis system

SlotNumber (string)—slot number on which the network device module resides

ProcessorID (string)—processor Id on which the network device module resides
**ChassisSystem** (string)—display name or target ID of the terminal target on which the network module resides

**PromptPrefix** (string)—command prompt prefix that will be used by the device type configurations and expects when issuing commands and connecting to the device. Adding a regex character, such as $, >, and #, at the end of a prompt in the Prompt Prefix field invalidates the command prompt prefix.

**ExpectTemplateNameOrId** (string)—name or ID of the expect template

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target

**CreateOpenStackTarget**

Specifies the connection information to an OpenStack server

**Parameters**

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**UsePublicUrl** (boolean)—Indicates whether the target should use the public URL

**APIVersion** (string)—Version of the OpenStack API

**HostName** (string)—host name of the OpenStack server

**OverriddenUrl** (string)—Url to the OpenStack keystone endpoint.

**IgnoreCertificateErrors** (boolean)—Indicates whether the target should ignore any certificate errors

**Tenant** (String)—Specify the OpenStack project to connect to

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target

**CreateOracleDatabaseTarget**

Specifies the connection information for the Oracle database used for processes to run against

**Parameters**

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**DataSource** (string)—ODBC data source name

**SID** (string)—site identifier

**PortNumber** (string)—port number used by the protocol

**TNSAlias** (string)—name of your Oracle service. This is the name that is specified in the tnsnames.ora file that is defined for your Oracle client.

**DatabaseOwner** (string)—user that created the database

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target

**CreateRemedyServerTarget**

Specify the connection information to a Remedy server which is used for processes to run against. It is recommended that the Remedy target is defined before attempting to define any Remedy activities. The Remedy target accesses the list of properties on the Remedy server.

**Parameters**

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**Server** (string)—host name or IP address of the Remedy server

**Authentication** (string)—string used by the client for authentication, such as domain name

**Port** (int)—port number used to access the Remedy server

**PollingInterval** (int)—interval used to query the Remedy system

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target
CreateServiceTarget

Creates a target that represents an IT or business service. The service target can be used by process authors when creating content within Cisco Process Orchestrator. The Service target is a specialized target that cannot be used against any activities or triggers in Cisco Process Orchestrator.

Parameters

- **defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **ServiceType** (string)—represents a "service" target. String value representing a service type. For example, *Bronze SQL Server* or *HR Portal*.
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- **Name** (string)—display name of the target
- **Description** (string)—text that describes the target
- **Organization** (string)—name of the company that supports the target

Return Type

String ID of the new target

CreateSnmpAgentTarget

Configures the host and operation and notification settings for accessing an SNMP agent

Parameters

- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **Host** (string)—host name or IP address of the SNMP agent
- **PortNumber** (int)—listening SNMP port to be used by Cisco Process Orchestrator to execute SNMP GET/SNMP SET activities against the device
- **GetRuntimeUser** (string)—credential properties that enable reading only from device
- **SetRuntimeUser** (string)—credential properties that enable writing to device
- **TrapRuntimeUser** (string)—credential properties that enable traps from the device
- **EngineID** (string)—SNMP v3 agent engine ID that serves as a unique identifier for the agent
- **ContextName** (string)—context name to be used during SNMP V3 operation
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- **Name** (string)—display name of the target
- **Description** (string)—text that describes the target
- **Organization** (string)—name of the company that supports the target

Return Type

String ID of the new target
CreateSnmpManagerTarget

Configures the host and security settings for sending traps to a SNMP server

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target

Host (string)—host name or IP address of the SNMP server

PortNumber (int)—listening port to be used by Cisco Process Orchestrator to send traps to the SNMP server

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type

String ID of the new target

CreateTerminalTarget

Specifies the connection information used to access the terminal host used for processes to run against

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target

Host (string)—DNS name or IP address of the terminal host

Port (int)—port number used to access the appropriate terminal target port (Default: SSH server: 22, Telnet server: 23)

Protocol (TransProtocolType)—target protocol which can be either SSH or TELNET

PromptPrefix (string)—command prompt prefix that will be used by the device type configurations and expects when issuing commands and connecting to the device. Adding a regex character, such as $, >, and #, at the end of a prompt in the Prompt Prefix field invalidates the command prompt prefix.

MaxConcurrentSessions (int32)—maximum number of sessions a device can accept

ExpectTemplateNameOrId (string)—name or ID of the expect template

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

**CreateUcsManagerTarget**
Specifies the connection information for the UCS Manager server used for processes to run against

**Parameters**
- `defaultRuntimeUserNameOrId` (string)—display name or unique identifier of the default runtime user that should be associated with this target
- `Validate` (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target
- `UcsManagerHostName` (string)—host name of the UCS Manager server
- `UcsManagerPortNumber` (int32)—port number used by the UCS Manager server
- `IsHttps` (boolean)—indicates VMware target is configured for HTTPS
- `IgnoreSSLCertError` (boolean)—indicates whether the target should ignore any SSL certificate errors
- `TimeZoneNameOrId` (string)—instance-specific time zone setting used to ensure the correct time display
- `Enabled` (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution
- `Name` (string)—display name of the target
- `Description` (string)—text that describes the target
- `Organization` (string)—name of the company that supports the target

**Return Type**
String ID of the new target

**CreateUnixTarget**
Specifies the connection information for the SSH server used for processes to run against

**Parameters**
- `defaultRuntimeUserNameOrId` (string)—display name or unique identifier of the default runtime user that should be associated with this target
- `Validate` (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target
- `Host` (string)—DNS name or IP address of selected server
- `Port` (int)—port number used to access the appropriate Unix/Linux target port (Default: SSH server: 22, Telnet server: 23)
- `Protocol` (TransProtocolType)—target protocol, which can be either SSH or TELNET
- `KshPath` (string)—path on the host where Korn Shell (ksh) is located. The default path is /usr/bin/ksh, but some systems use a different path like /bin/ksh.
- `PromptPrefix` (string)—command prompt prefix that will be used by the device type configurations and expects when issuing commands and connecting to the device. Adding a regex character, such as $, >, and #, at the end of a prompt in the Prompt Prefix field invalidates the command prompt prefix.
- `MaxConcurrentSessions` (int32)—maximum number of sessions the server can accept
- `ExpectTemplateNameOrId` (string)—name or ID of the expect template
Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateVCloudDirectorTarget
Specifies the connection information for the VCloud Director server used for processes to run against

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

UsePublicUrl (boolean)—indicates whether the target should use the public URL

HostName (string)—host name or IP address of selected server

PublicApiUrl (string)—URL used to connect to the VCloud Director

IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors

APIVersion (string)—API version of the VCloud Director

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateVCTarget
Specifies the connection information to the VMware virtual center server target

Virtual Center Server provides unified management of all the hosts and VMs in your datacenter from a single console with an aggregate performance monitoring of clusters, hosts and VMs.

Parameters

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

VirtualCenterESXServerName (string)—host name or IP address of the Virtual Center/ESX Server

VirtualCenterESXServerServicePort (int)—port number used to access the Virtual Center/ESX Server service
IsHttps (boolean)—indicates VMware target is configured for HTTPS
IsSSLCertificateErrorIgnored (boolean)—indicates whether the target should ignore any SSL certificate errors
ConnectionLanguage (string)—default language to use when connecting to the server
UseDefaultLanguage (boolean)—indicates whether the target should use the default language when connecting to the server
ConnectionOverrideLanguage (string)—alternative language to use when connecting to the server
Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
Name (string)—display name of the target
Description (string)—text that describes the target
Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateWebTarget
Configures a target for execution by a Web service activity on which a web site may be hosted on several machines. The target allows an activity to execute against the specified URL address.

Parameters
defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target
Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
BaseUrl (string)—target URL to use as a base for execution
IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors
Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
Name (string)—display name of the target
Description (string)—text that describes the target
Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

CreateWindowsTarget
Specifies the connection information for the Windows computer used for processes to run against

If Windows 2008 is used as the target, then the Windows firewall settings need to be adjusted in order to allow Windows Management Instrumentation (WMI) to pass through.

Parameters
defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target
**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**ComputerName** (string)—name of the computer (Local computer name, DNS name, NetBIOS name, IP address)

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**

String ID of the new target
**Updating Targets**

The Update Targets Web services allow users to update existing targets for specific Cisco Process Orchestrator target types.

**Note:** Any use of an ambiguous name as the target identifier will result in an error being returned. For example, if two different targets are each named “name,” Cisco Process Orchestrator will not be able to choose which target the user intends to update.

The following topics describe how to update targets for specific Cisco Process Orchestrator target types.

**DeleteTarget**

Deletes any type of defined target in Cisco Process Orchestrator.

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target

**Return Type**

None

**EnableOrDisableTarget**

Enables or disables a specified target in Cisco Process Orchestrator using a Boolean operator that determines whether the target will be enabled or disabled.

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **enable** (bool)—True or False determines whether the target will be enabled or disabled

**Return Type**

None

**UpdateActiveDirectoryDomainTarget**

Updates the connection information for the Active Directory Domain server used for processes to run against.

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **ConnectionString** (string)—Active Directory authentication string
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- **Name** (string)—display name of the target
- **Description** (string)—text that describes the target
- **Organization** (string)—name of the company that supports the target
Return Type
None

**UpdateAMQPBrokerTarget**
Updates the connection information for the AMQP Broker server used for processes to run against

**Parameters**

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**Host** (string)—host name of the AMQP Broker server

**Port** (string)—port number used by the protocol

**VirtualHost** (string)—name of the virtual host that specifies the namespace for entities (exchanges and queues) referred to by the protocol

**IgnoreCertificateErrors** (boolean)—indicates whether the target should ignore any certificate errors

**UseSSL** (boolean)—indicates whether the target should use SSL

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**
None

**UpdateAzureServerTarget**
Updates the connection information for the Azure Service Bus server used for processes to run against

**Parameters**

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**Namespace** (string)—namespace for Azure Service Bus

**ServiceBusForWindowsServer** (string)—name of the host that specifies the namespace for entities referred to by the protocol

**RuntimePortNumber** (string)—runtime port number used by the protocol

**ManagementPortNumber** (string)—management port number used by the protocol

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
Name (string)—display name of the target
Description (string)—text that describes the target
Organization (string)—name of the company that supports the target

Return Type
None

**UpdateCiscoServicePortalTarget**

Updates the connection information for the Cisco Prime Service Catalog server used for processes to run against

Parameters
- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **DefaultRuntimeUserNameOrId** (string)—display name or unique identifier of the runtime user used to access Request Center
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **ServiceLinkRuntimeUserNameOrId** (string)—display name or unique identifier of the runtime user used to access Service Link.
- **Server** (string)—host name or IP address where Request Center resides.
- **ServiceLinkServer** (string)—host name or IP address where Service Link resides.
- **UseSSL** (boolean)—indicates whether the target should use SSL to access Request Center
- **ServiceLinkUseSSL** (boolean)—indicates whether the target should use SSL to access Service Link
- **IgnoreCertificateErrors** (boolean)—indicates whether the target should ignore any certificate errors when accessing Request Center
- **ServiceLinkIgnoreCertificateErrors** (boolean)—indicates whether the target should ignore any certificate errors when accessing Service Link
- **ServiceLinkPort** (int32)—port number to access Service Link
- **RequestCenterPort** (int32)—port number to access Request Center
- **PublicKeyGuid** (Guid)—ID to the entry that contains the Cisco Process Orchestrator encryption public key stored in Cisco Prime Service Catalog
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**UpdateCiscoUCSDirectorTarget**

Updates the connection information for the Cisco UCS Director server used for processes to run against

Parameters
targetNameOrId (string)—display name or unique identifier that will be used to find this target

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

Server (string)—host name or IP address of the Cisco Prime Service Catalog server

UseSSL (boolean)—indicates whether the target should use SSL

IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type

None

UpdateCloudCenterServerTarget

Updates the connection information for the Cisco UCS Director server used for processes to run against

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

HostName (string)—host name or IP address of the Cisco Cloud Center server

HttpPort (string)—port number used to access Cisco Cloud Center server

IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type

None

UpdateEmailIMAPTarget

Updates the connection information to an IMAP email server target

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target
defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

EmailServer (string)—DNS name or IP address of the IMAP server

Port (string)—port number used by the protocol

EnableTLSAuthentication (boolean)—indicate whether Transport Layer Security (TLS) authentication is enabled

EnableSSL (boolean)—indicate whether SSL is enabled

PollingInterval (int)—interval used to query the email server

IgnoreCertificateError (boolean)—indicates whether the target should ignore any certificate errors

EnableServerPush (boolean)—indicates whether to poll for emails from email server or subscribe to email server for email notification. Note that not all email servers have this option enabled.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
None

UpdateEmailPOP3Target

Updates the connection information to a POP3 email server target

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

EmailServer (string)—DNS name or IP address of the POP3 server

Port (string)—port number used by the protocol

EnableTLSAuthentication (boolean)—indicate whether Transport Layer Security (TLS) authentication is enabled

EnableSSL (boolean)—indicate whether SSL is enabled

PollingInterval (int)—interval used to query the email server

IgnoreCertificateError (boolean)—indicates whether the target should ignore any certificate errors

EnableServerPush (boolean)—Not applicable

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
None
**UpdateEmailSMTPTarget**

Updates the connection information to a SMTP email server

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target
- **SMTPServer** (string)—DNS name or IP address of the SMTP gateway to use for sending email messages
- **SMTPPort** (int32)—port used in the DNS name or IP address of the SMTP gateway
- **Sender** (string)—email message address of the sender
- **CredentialRequired** (boolean)—indicates if authentication credentials are required
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- **Name** (string)—display name of the target
- **Description** (string)—text that describes the target
- **Organization** (string)—name of the company that supports the target

**Return Type**

None

**UpdateESXTarget**

Updates the connection information to a VMware ESX server target

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **VirtualCenterESXServerName** (string)—host name or IP address of the Virtual Center/ESX Server
- **VirtualCenterESXServerServicePort** (int)—port number used to access the Virtual Center/ESX Server service
- **IsHttps** (bool)—indicates VMware target is configured for HTTPS
- **IsSSLCertificateErrorIgnored** (boolean)—indicates whether the target should ignore any SSL certificate errors
- **ConnectionLanguage** (string)—default language to use when connecting to the server
- **UseDefaultLanguage** (boolean)—indicates whether the target should use the default language when connecting to the server
- **ConnectionOverrideLanguage** (string)—alternative language to use when connecting to the server
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- **Name** (string)—display name of the target
**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**
None

**UpdateNetworkDeviceModuleTarget**

Updates a network device module target which can be used as a dependent of a terminal target

**Parameters**

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**SwitchNumber** (string)—switch number for the chassis system

**SlotNumber** (string)—slot number on which the network device module resides

**ProcessorID** (string)—processor Id on which the network device module resides

**ChassisSystem** (string)—display name or target ID of the terminal target on which the network module resides

**PromptPrefix** (string)—command prompt prefix that will be used by the device type configurations and expects when issuing commands and connecting to the device. Adding a regex character, such as $, >, and #, at the end of a prompt in the Prompt Prefix field invalidates the command prompt prefix.

**ExpectTemplateNameOrId** (string)—name or ID of the expect template

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**Return Type**
None

**UpdateOpenStackTarget**

Update the connection information to an OpenStack server target

**Parameters**

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**UsePublicUrl** (boolean)—Indicates whether the target should use the public URL

**APIVersion** (string)—Version of the OpenStack API
HostName (string)—host name of the OpenStack server
OverridenUrl (string)—Url to the OpenStack keystone endpoint.
IgnoreCertificateErrors (boolean)—Indicates whether the target should ignore any certificate errors
Tenant (String)—OpenStack project name
Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
Name (string)—display name of the target
Description (string)—text that describes the target
Organization (string)—name of the company that supports the target

Return Type
None

UpdateOracleDatabaseTarget
Updates the connection information for the Oracle database used for processes to run against

Parameters

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target
**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
**DataSource** (string)—ODBC data source name
**SID** (string)—Site identifier
**PortNumber** (string)—port number used by the protocol
**TNSAlias** (string)—name of your Oracle service. This is the name that is specified in the tnsnames.ora file that is defined for your Oracle client.
**DatabaseOwner** (string)—user that created the database
**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
**Name** (string)—display name of the target
**Description** (string)—text that describes the target
**Organization** (string)—name of the company that supports the target

Return Type
None

UpdateRemedyServerTarget
Updates the connection information to a Remedy server target

Parameters

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target
defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

Server (string)—host name or IP address of the Remedy server

Authentication (string)—string used by the client for authentication, such as domain name

Port (int)—port number used to access the Remedy server

PollingInterval (int)—interval used to query the Remedy system

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
None

UpdateServiceTarget
Updates a target that represents an IT or business service

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target
defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

ServiceType (string)—represents a "service" target. String value representing a service type. For example, Bronze SQL Server or HR Portal.

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
None

UpdateSnmpAgentTarget
Updates the host and operation and notification settings for accessing an SNMP agent

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
**Host** (string)—host name or IP address of the SNMP agent

**PortNumber** (int)—listening SNMP port to be used by Cisco Process Orchestrator to execute SNMP GET/SNMP SET activities against the device

**GetRuntimeUser** (string)—credential properties that enable reading only from device

**SetRuntimeUser** (string)—credential properties that enable writing to device

**TrapRuntimeUser** (string)—credential properties that enable traps from the device

**EngineID** (string)—SNMP v3 agent engine ID that serves as a unique identifier for the agent.

**ContextName** (string)—context name to be used during SNMP V3 operation

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**ReturnType**

None

**UpdateSnmpManagerTarget**

Updates the host and security settings for sending traps to a SNMP server

**Parameters**

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target

**defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target

**Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

**Host** (string)—host name or IP address of the SNMP server

**PortNumber** (int)—listening port to be used by Cisco Process Orchestrator to send traps to the SNMP server

**Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

**Name** (string)—display name of the target

**Description** (string)—text that describes the target

**Organization** (string)—name of the company that supports the target

**ReturnType**

None

**UpdateTerminalTarget**

Updates the connection information used to access the terminal host used for a terminal target

**Parameters**

**targetNameOrId** (string)—display name or unique identifier that will be used to find this target
defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

Host (string)—DNS name or IP address of the terminal host

Port (int)—port number used to access the appropriate terminal target port (Default: SSH server: 22, Telnet server: 23)

Protocol (TransProtocolType)—target protocol which can be either SSH or TELNET

PromptPrefix (string)—command prompt prefix that will be used by the device type configurations and expects when issuing commands and connecting to the device. Adding a regex character, such as $, >, and #, at the end of a prompt in the Prompt Prefix field invalidates the command prompt prefix.

MaxConcurrentSessions (int32)—maximum number of sessions a device can accept

ExpectTemplateNameOrId (string)—name or ID of the expect template

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
None

UpdateUcsManagerTarget
Updates the connection information for the UCS Manager server used for processes to run against

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

UcsManagerHostName (string)—host name of the UCS Manager server

UcsManagerPortNumber (int32)—port number used by the UCS Manager server

IsHttps (boolean)—indicates VMware target is configured for HTTPS

IgnoreSSLCertError (boolean)—indicates whether the target should ignore any SSL certificate errors

TimeZoneNameOrId (string)—instance-specific time zone setting used to ensure the correct time display

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

Return Type
String ID of the new target

**UpdateUnixTarget**

Updates the connection information for the SSH server used for processes to run against

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **Host** (string)—DNS name or IP address of selected server
- **Port** (int)—port number used to access the appropriate Unix/Linux target port (Default: SSH server: 22, Telnet server: 23)
- **Protocol** (TransProtocolType)—target protocol, which can be either SSH or TELNET
- **KshPath** (string)—path on the host where Korn Shell (ksh) is located. The default path is /usr/bin/ksh, but some systems use a different path like /bin/ksh.
- **PromptPrefix** (string)—command prompt prefix that will be used by the device type configurations and expects when issuing commands and connecting to the device. Adding a regex character, such as $, >, and #, at the end of a prompt in the Prompt Prefix field invalidates the command prompt prefix.
- **MaxConcurrentSessions** (int32)—maximum number of sessions the server can accept
- **ExpectTemplateNameOrId** (string)—name or ID of the expect template
- **Enabled** (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.
- **Name** (string)—display name of the target
- **Description** (string)—text that describes the target
- **Organization** (string)—name of the company that supports the target

**Return Type**

None

**UpdateVCloudDirectorTarget**

Updates the connection information for the VCloud Director server used for processes to run against

**Parameters**

- **targetNameOrId** (string)—display name or unique identifier that will be used to find this target
- **defaultRuntimeUserNameOrId** (string)—display name or unique identifier of the default runtime user that should be associated with this target
- **Validate** (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.
- **UsePublicUrl** (boolean)—indicates whether the target should use the public URL
- **HostName** (string)—host name or IP address of selected server
- **PublicApiUrl** (string)—URL used to connect to the VCloud Director
IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors

APIVersion (string)—API version of the VCloud Director

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

**Return Type**

None

**UpdateVCTarget**

Updates the connection information to the VMware virtual center server target

**Parameters**

targetNameOrId (string)—display name or unique identifier that will be used to find this target

defaultRuntimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

VirtualCenterESXServerName (string)—host name or IP address of the Virtual Center/ESX Server

VirtualCenterESXServerServicePort (int)—port number used to access the Virtual Center/ESX Server service

IsHttps (boolean)—indicates VMware target is configured for HTTPS

IsSSLCertificateErrorIgnored (boolean)—indicates whether the target should ignore any SSL certificate errors

ConnectionLanguage (string)—default language to use when connecting to the server

UseDefaultLanguage (boolean)—indicates whether the target should use the default language when connecting to the server

ConnectionOverrideLanguage (string)—alternative language to use when connecting to the server

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

**Return Type**

None

**UpdateWebTarget**

Updates the properties used target for execution by a Web service activity on which a web site may be hosted on several machines

**Parameters**

targetNameOrId (string)—display name or unique identifier that will be used to find this target
defaultRunTimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

BaseUrl (string)—target URL to use as a base for execution

IgnoreCertificateErrors (boolean)—indicates whether the target should ignore any certificate errors

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

ReturnType

None

UpdateWindowsTarget

Updates the connection information for the Windows computer target used for processes to run against

Parameters

targetNameOrId (string)—display name or unique identifier that will be used to find this target

defaultRunTimeUserNameOrId (string)—display name or unique identifier of the default runtime user that should be associated with this target

Validate (boolean)—when validate is set to true, the adapter verifies specified connection information by connecting to the target.

ComputerName (string)—name of the computer (Local computer name, DNS name, NetBIOS name, IP address)

Enabled (boolean)—indicates if this target is enabled for execution. Targets that are not enabled are not available for execution.

Name (string)—display name of the target

Description (string)—text that describes the target

Organization (string)—name of the company that supports the target

ReturnType

None
Viewing Targets
The View Targets Web services allow users to view the properties of existing targets for specific Cisco Process Orchestrator target types.
This section describes how to update targets for specific Cisco Process Orchestrator target types.

List Targets
Retrieves the list of defined targets in Cisco Process Orchestrator

Parameters
nameFilter (string)—A filter that will be applied to the display names of these objects. This filter may contain the "*" wildcard character
typeFilter (string)—A filter that will be applied to the type names of these objects. This filter may contain the "*" wildcard character

Return Type
TargetDefinition[]

View[UniqueTargetType]TargetProperties
Users can view properties of a target that is defined in Cisco Process Orchestrator.

Parameters
targetNameOrId (string)—display name or unique identifier that will be used to find the target

Return Type
[UniqueTargetType]TargetConfigurationData
Runtime User Web Service

This Web service allows users to create, update, and view specific runtime users in Cisco Process Orchestrator. The WSDL for the Runtime User Web service is http://<server>:\<port>/WS/RuntimeUser?wsdl.

Creating Runtime Users

The following topics describe how to create runtime users in Cisco Process Orchestrator.

CreateAzureAccessKeyConfiguration

Specifies the security credentials for a runtime user that can be assigned to processes and activities for different adapters

Parameters

- **Validate** (boolean)—indicates if the runtime user credentials are validated
- **SharedAccessKeyName** (string)—shared access key name to access Azure Service Bus server
- **SharedAccessKey** (string)—shared access key to access Azure Service Bus server
- **UserName** (string)—not used
- **Name** (string)—display name of the runtime user
- **Password** (string)—not used
- **Description** (string)—text that describes the object

Return Type

string

CreateClientCertificateUserConfiguration

Specifies the user administrative credentials required to configure client certificates

Parameters

- **Validate** (boolean)—indicates if the runtime user credentials are validated
- **RawData** (string)—raw data of the certificate

**Note**: The RawData is expected to be a Base64 string returned by the following sequence of calls in C#:

```csharp
X509Certificate2 cert = new X509Certificate2(filePath, password, X509KeyStorageFlags.Exportable);
byte[] bytes = cert.Export(X509ContentType.Pfx, "");
string rawDataSetString = Convert.ToBase64String(bytes);
```

- **UserName** (string)—user name that will be associated with this user object
- **Name** (string)—display name of the runtime user
- **Password** (string)—password for this user account
- **Description** (string)—text that describes the runtime user

Return Type

string
CreateCloudCenterApiAccessCredentialsConfiguration
Specifies the security credentials for a runtime user that can be assigned to processes and activities for different adapters

Parameters
Validate (boolean)—indicates if the runtime user credentials are validated
ApiKey (string)—API key to access Cloud Center server
UserName (string)—user name to access Cloud Center server
Name (string)—display name of the runtime user
Password (string)—not used
Description (string)—text that describes the object

Return Type
string

CreateGenericUser
Specifies the security credentials for a runtime user that can be assigned to processes and activities for different adapters

Parameters
Validate (boolean)—indicates if the runtime user credentials are validated
UserName (string)—user name that will be associated with this user object
Name (string)—display name of the runtime user
Password (string)—password for this user account
Description (string)—text that describes the object

Return Type
string

CreateIOSUserConfiguration
Specifies the user administrative credentials required to access a Cisco IOS Device. The level of access for the Cisco IOS device is dependent upon the type of password used.

Parameters
Validate (boolean)—indicates if the runtime user credentials are validated
AdminPassword (string)—password for the administrator
UserName (string)—user name that will be associated with this user object
Name (string)—display name of the runtime user
Password (string)—password for this user account
Description (string)—text that describes the object

Return Type
string

**CreateOAuthUserConfiguration**

Specifies the credentials for a client certificate runtime user.

**Parameters**

- **Validate** (boolean)—indicates if the runtime user credentials are validated
- **UserName** (string)—user name that will be associated with this user object
- **Name** (string)—display name of the runtime user
- **Password** (string)—password for this user account
- **Description** (string)—text that describes the object

**Return Type**

string

**CreateOpenStackUser**

Specifies the credentials for an OpenStack runtime user.

**Parameters**

- **Validate** (boolean)—indicates if the runtime user credentials are validated
- **UserName** (string)—user name that will be associated with this user object
- **Name** (string)—display name of the runtime user
- **Password** (string)—password for this user account
- **Description** (string)—text that describes the object

**Return Type**

string

**CreatePublicKeyAdminUserConfiguration**

Specifies the credentials required to allow public key authentication and an administrative password to perform privileged operations.

If a target has set up public key authentication on the remote SSH server, the private key of the Public-key Authenticated Admin Runtime User will be used to form the SSH authentication request. The request is then authenticated against the stored public key on the remote server. It requires user level public key authentication as opposed to host level public key authentication.

If the target does not allow public key authentication, the SSH authentication will fail.

**Parameters**

- **Validate** (boolean)—indicates if the runtime user credentials are validated
- **AdminPassword** (string)—password for the administrator
- **PrivateKeyPassphrase**—private key passphrase used for authentication
- **PrivateKey**—private key used for authentication
- **UserName** (string)—user name that will be associated with this user object
Name (string)—display name of the runtime user

Password (string)—password assigned to access Privileged EXEC mode on the device. The Privileged EXEC mode provides the highest level of commands to users

Description (string)—text that describes the object

Return Type

string

CreateSnmpUserConfiguration

Specifies the credentials for a SNMP runtime user to be used to assign run options for SNMP processes or activities

Parameters

Validate (boolean)—indicates if the runtime user credentials are validated

SnmpVersion (SnmpVersion)—appropriate SNMP version (SNMPv1, SNMPv2c, SNMPv3), case sensitive

Community (string)—indicates the relationship between the SNMP server system and the client system

SecurityLevel (SnmpSecurityLevels)—security level assigned to the user (noAuthNoPriv, authNoPriv, authPriv), case sensitive

AuthenticationProtocol (SnmpAuthenticationProtocol)—protocol used for authentication for authNoPriv or authPriv security levels (SHA, MD5), case sensitive

PrivacyProtocol (SnmpPrivacyProtocol)—format for transmitting encrypting data between the two devices for the security level authPriv. (DES, 3DES, AES128, AES256), case sensitive

EncryptedAuthenticationKey (string)—password used for authentication

EncryptedPrivacyKey (string)—password used for encrypting data

UserName (string)—user name that will be associated with this user object.

Name (string)—display name of the runtime user

Password (string)—password for this user account

Description (string)—text that describes the object

Return Type

string

CreateVCloudDirectorUser

Specify the credentials required to access a VCloud Director

Parameters

Validate (boolean)—indicates if the runtime user credentials are validated

UserType (vCloudUserType)—System or Organization

Organization (string)—name of the company that supports the runtime user

UserName (string)—user name that will be associated with this user object

Name (string)—display name of the runtime user

Password (string)—password for this user account
**CreateWindowsUser**

Specify the credentials for a Windows user to be used to assign run options for processes or activities

**Parameters**

- **Validate** (boolean)—indicates if the runtime user credentials are validated
- **Domain** (string)—Windows domain in which the user account resides
- **UserName** (string)—user name that will be associated with this user object
- **Name** (string)—display name of the runtime user
- **Password** (string)—password for this user account
- **Description** (string)—text that describes the object

**Return Type**

String
Updating Runtime Users
This section describes how to update existing runtime users in Cisco Process Orchestrator.

DeleteRuntimeUser
Deletes a runtime user based on the name or the provided name

Parameters
runtimeUserNameOrId (string)—display name or id of the runtime user

Return Type
None

UpdateAzureAccessKeyConfiguration
Updates the security credentials for a runtime user that can be assigned to processes and activities for different adapters

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
SharedAccessKeyName (string)—shared access key name to access Azure Service Bus server
SharedAccessKey (string)—shared access key to access Azure Service Bus server
UserName (string)—not used
Name (string)—display name of the runtime user
Password (string)—not used
Description (string)—text that describes the object

Return Type
string

UpdateClientCertificateUserConfiguration
Updates the user administrative credentials required to configure client certificates

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
RawData (string)—raw data of the certificate.

Note:
The RawData is expected to be a Base64 string returned by the following sequence of calls in C#:
X509Certificate2 cert = new X509Certificate2(filePath, password,X509KeyStorageFlags.Exportable);
byte[] bytes = cert.Export(X509ContentType.Pfx, "");
string rawDataString = Convert.ToBase64String(bytes);

UserName (string)—user name that will be associated with this user object
Name (string)—name of the object
Password (string)—password for this user account
Description (string)—text that describes the runtime user

Return Type
string

UpdateCloudCenterApiAccessCredentialsConfiguration
Specifies the security credentials for a runtime user that can be assigned to processes and activities for different adapters

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
ApiKey (string)—API key to access Cloud Center server
UserName (string)—user name to access Cloud Center server
Name (string)—display name of the runtime user
Password (string)—not used
Description (string)—text that describes the object

Return Type
string

UpdateGenericUser
Updates the security credentials for a generic runtime user

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
UserName (string)—user name that is associated with this user object
Name (string)—name of the object
Password (string)—password for this user account
Description (string)—text that describes the object

Return Type
None

UpdateIOSUserConfiguration
Updates the user administrative credentials required to access a Cisco IOS Device

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
AdminPassword (string)—password for the administrator
UserName (string)—user name that will be associated with this user object
Name (string)—name of the object
Password (string)—password for this user account
Description (string)—text that describes the object

Return Type
None

UpdateOAuthUserConfiguration
Updates the credentials for a client certificate runtime user

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
UserName (string)—user name that will be associated with this user object
Name (string)—name of the object
Password (string)—password for this user account
Description (string)—text that describes the object

Return Type
None

UpdateOpenStackUser
Updates the credentials for an OpenStack runtime user

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
UserName (string)—user name that will be associated with this user object
Name (string)—name of the object
Password (string)—password for this user account
Description (string)—text that describes the object

Return Type
None

UpdatePublicKeyAdminUserConfiguration
Updates the credentials required to allow public key authentication and an administrative password to perform privileged operations

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Validate (boolean)—indicates if the runtime user credentials are validated
AdminPassword (string)—password for the administrator

PrivateKeyPassphrase—private key passphrase used for authentication

PrivateKey—private key used for authentication

UserName (string)—user name that will be associated with this user object

Name (string)—name of the object

Password (string)—password assigned to access Privileged EXEC mode on the device. The Privileged EXEC mode provides the highest level of commands to users

Description (string)—text that describes the object

Return Type

None

UpdateSnmpUserConfiguration

Updates the credentials for a SNMP runtime user to be used to assign run options for SNMP processes or activities

Parameters

userNameOrId (string)—display name or unique identifier that will be used to find this user

Validate (boolean)—indicates if the runtime user credentials are validated

SnmpVersion (SnmpVersion)—appropriate SNMP version (SNMPv1, SNMPv2c, SNMPv3), case sensitive

Community (string)—indicates the relationship between the SNMP server system and the client system

SecurityLevel (SnmpSecurityLevels)—security level assigned to the user (noAuthNoPriv, authNoPriv, authPriv), case sensitive

AuthenticationProtocol (SnmpAuthenticationProtocol)—protocol used for authentication for authNoPriv or authPriv security levels (SHA, MD5), case sensitive

PrivacyProtocol (SnmpPrivacyProtocol)—format for transmitting encrypting data between the two devices for the security level authPriv. (DES, 3DES, AES128, AES256), case sensitive

EncryptedAuthenticationKey (string)—password used for authentication

EncryptedPrivacyKey (string)—password used for encrypting data

UserName (string)—user name that will be associated with this user object.

Name (string)—name of the object

Password (string)—password for this user account

Description (string)—text that describes the object

Return Type

None

UpdateVCloudDirectorUser

Updates the credentials required to access a VCloud Director

Parameters

userNameOrId (string)—display name or unique identifier that will be used to find this user

Validate (boolean)—indicates if the runtime user credentials are validated
**UserType** (vCloudUserType)—System or Organization

**Organization** (string)—name of the company that supports the runtime user

**UserName** (string)—user name that will be associated with this user object

**Name** (string)—name of the object

**Password** (string)—password for this user account

**Description** (string)—text that describes the object

**Return Type**

string

**UpdateWindowsUser**

Updates the credentials for a Windows user to be used to assign run options for processes or activities

**Parameters**

**userNameOrId** (string)—display name or unique identifier that will be used to find this user

**Domain** (string)—Windows domain in which the user account resides

**UserName** (string)—user name that will be associated with this user object

**Name** (string)—name of the object

**Password** (string)—password for this user account

**Description** (string)—text that describes the object

**Return Type**

None
Viewing Runtime Users
This section describes how to review the properties of existing runtime users in Cisco Process Orchestrator.

ListRuntimeUsers
Retrieves the list of defined runtime users in Cisco Process Orchestrator

Parameters

nameFilter (string)—filter that will be applied to the display names of these objects. This filter may contain the "*" wildcard character.

typeFilter (string)—filter that will be applied to the type names of these objects. This filter may contain the "*" wildcard character.

ReturnType
RuntimeUserDefinition[]

ViewAzureAccessKeyConfigurationProperties
View the configuration properties for an Azure access key

Parameters

userNameOrId (string)—display name or unique identifier that will be used to find this user

ReturnType
ViewAzureAccessKeyConfigurationData

ViewCloudCenterApiAccessCredentialsConfigurationProperties
View the configuration properties for Cloud Center API access key

Parameters

userNameOrId (string)—display name or unique identifier that will be used to find this user

ReturnType
ViewCloudCenterApiAccessCredentialsConfigurationData

ViewClientCertificateUserConfigurationProperties
View the configuration properties for a client certificate user

Parameters

userNameOrId (string)—display name or unique identifier that will be used to find this user

ReturnType
ClientCertificateUserConfigurationData

ViewGenericUserProperties
View the configuration properties of a runtime user

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
GenericRuntimeUserConfigurationData

**ViewIOSUserConfigurationProperties**
View the configuration properties for the IOS user.

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
IOSUserConfigurationData

**ViewOAuthUserConfigurationProperties**
View the configuration properties for the oAuth user.

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
OAuthUserConfigurationData

**ViewOpenStackUserProperties**
View the configuration properties for the oAuth user.

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
OpenStackUserData

**ViewPublicKeyAdminUserConfigurationProperties**
View the configuration properties for public key administrator

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
PublicKeyAdminUserConfigurationData

**ViewSnmpUserProperties**
View the SNMP user configuration properties

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user
Return Type
SnmpUserConfigurationData

ViewVCloudDirectorUserProperties
View the VCloud Direct user configuration properties

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
VCloudDirectorUserData

ViewWindowsUserProperties
Retrieves the properties of a defined Windows user account in Cisco Process Orchestrator

Parameters
userNameOrId (string)—display name or unique identifier that will be used to find this user

Return Type
WindowsUserConfigurationData
Task Web Service

This Web service allows users to create, update, and view specific task in Cisco Process Orchestrator. The WSDL for the Task Web service is located at the following location: http://<server>:<port>/WS/Task?wsdl

Creating Tasks

The following topics describe how to create tasks for Cisco Process Orchestrator.

CreateAlertTask

Creates an alert regarding any potential problems
An alert reflects potential problems that a user may want to investigate and possibly diagnose the problem.

Parameters

AlertClass (int)—incident identifier for the alert
DuplicateTaskId (Guid)—Task ID of the duplicated alert
WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console
ItilStatus (ItilTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Canceled, Duplicate, Resolved, Closed)
AffectedTargetConfigurationItemId (Guid)—System ID on which the condition was detected
ConfigurationItemId (Guid)—IT component to which the alert pertains
AffectedServices (string)—IT Service affected by the alert or incident
AffectedOrganizations (string)—organizations that consume the IT service affected by the alert or incident
Severity (ItilTechnicalSeverity)—severity of the task (Low, Normal, High)
AutomationSummary (string)—file path for the related automation summary
Name (string)—name of the object
Description (string)—text that describes the object
DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.
ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.
CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.
Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)
NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task
ExternalSystem (string)—external system for the task
ExternalId (string)—external Id for the task
RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task
CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INdirect membership in, such as in the case of a category within a category.
**Parameters** (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**Return Type**

string

**CreateApprovalTask**

Specifies the user or group required to approve a task including the message associated for the approver

**Parameters**

Message (string)—informs the approver what is being requested

ApprovalChoiceIndex (int)—0-based index of the approval choices in the task

AutomationSummary (string)—file path for the related automation summary

ApprovalChoices (List<Collection of strings>)—choices available to the approver

ApprovalStatus ( ApprovalTaskStatus)—current status of the task (New, Assigned, Pending, InProgress, Waiting, Canceled, Completed)

WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

Name (string)—name of the object

Description (string)—text that describes the object

DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task

CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INdirect membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**Return Type**

string

**CreateChangeRequestTask**

Requests a modification to the configuration of an object or system

The change requests are used to request system enhancements, report problems with a system, or report changes from one system which affects another system.
Parameters

ChangeRequestClass (int)—identifier for the change request

ChangeStatus (ChangeRequestTaskStatus)—current status of the task (New, Assigned, AuthorizationPending, AuthorizationDenied, Authorized, ChangeInProgress, ChangeComplete, Canceled, Duplicate)

ChangeRequestIdentifier (string)—Cisco Process Orchestrator generated ID number for the change request task

ReasonForChange (string)—describes the business justification for the request

ChangeTiming (string)—deadline date or time for the change

WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

AffectedTargetConfigurationItemId (Guid)—System ID on which the condition was detected

ConfigurationItemId (Guid)—IT component to which the alert pertains.

AffectedServices (string)—IT Service affected by the alert or incident

AffectedOrganizations (string)—organizations that consume the IT service affected by the alert or incident

Severity (ItilTechnicalSeverity)—severity of the task (Low, Normal, High)

AutomationSummary (string)—file path for the related automation summary

Name (string)—name of the object

Description (string)—text that describes the object

DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task

CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an indirect membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

Return Type

string

CreateGuidedOperationTask

Creates detailed instructions for a user or group to perform a guided operation task

Parameters
GuidedOperationStatus (GuidedOperationTaskStatus)—current status of the task (New, Assigned, Pending, InProgress, Waiting, Closed, Bypassed, Canceled, Completed)

Instructions (string)—step-by-step process for handling a task

WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

Name (string)—name of the object

Description (string)—text that describes the object

DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task

CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INDIRECT membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

ReturnType

string

CreateIncidentTask

Creates a task which requires an operator to take action in order to resolve an issue

Parameters

IncidentClass (int)—value indicating the class of the incident

IncidentIdentifier (string)—ID of the incident

ReportingUser (string)—user name of the individual who reported the incident and contact information of the user who called IT to report the problem

ReportingUserDetails (string)—contact information of the individual who reported the incident

OriginatingAlertIds (List<Collection of Guids>)—Alert ID which triggered the incident

ResolveOriginatingAlerts (bool)—indicates whether Alert ID was resolved using True/False value

WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

ItilStatus (ItilTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Canceled, Duplicate, Resolved, Closed)

AffectedTargetConfigurationItemId (Guid)—System ID on which the condition was detected
**ConfigurationItemId** (Guid)—IT component to which the alert pertains.

**AffectedServices** (string)—IT Service affected by the alert or incident

**AffectedOrganizations** (string)—organizations that consume the IT service affected by the alert or incident

**Severity** (ItilTechnicalSeverity)—severity of the task (Low, Normal, High)

**AutomationSummary** (string)—file path for the related automation summary

**Name** (string)—name of the object

**Description** (string)—text that describes the object

**DueDate** (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

**ExpirationDate** (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

**CompletedTime** (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

**Priority** (TaskPriority)—indicates the priority of the task (Low, Medium, High)

**NotificationRecipients** (List<Collection of strings>)—list of recipients to be notified about the task

**ExternalSystem** (string)—external system for the task

**ExternalId** (string)—external Id for the task

**RelatedTaskIds** (List<Collection of Guids>)—Task ID of the related task

**CategoryId** (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INdirect membership in, such as in the case of a category within a category.

**Parameters** (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**ReturnType**

string

**CreateReviewTask**

Submit a document for review as well as provide a message for the reviewer. In Cisco Process Orchestrator, this task is called the Review Request task.

**Parameters**

**ReviewStatus** (ReviewTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Waiting, Canceled, Completed)

**DocumentPath** (string)—file path for the document to be reviewed

**Message** (string)—message that informs the reviewer of why document needs to be reviewed

**WebFormXSLFileName** (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

**Name** (string)—name of the object

**Description** (string)—text that describes the object

**DueDate** (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.
ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task

CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an indirect membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

ReturnType

string

CreateSurveyTask

Creates a set of questions requiring a user or group response in order to gather a large set of information

In Cisco Process Orchestrator, this task is called the Input Request task.

Parameters

Message (string)—introductory message for the input request

SurveyStatus (SurveyTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Waiting, Canceled, Completed)

WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

Name (string)—name of the object

Description (string)—text that describes the object

DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task
**CategoryId**s (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INdirect membership in, such as in the case of a category within a category.

**Parameters** (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**Return Type**

string
Updating Tasks
This section describe how to modify configuration properties of an existing task in Cisco Process Orchestrator.

AddNoteToTask
Updates an existing task with notes

Parameters
taskId (Guid)—Id of the task
noteText (string)—Any notes related to the task

Return Type
None

UpdateAlertTask
Updates the properties or status of a defined alert containing potential problems that a user may want to investigate and possibly diagnose the problem.

Parameters
nameOrId (string)—display name or unique identifier of the task
AlertClass (int)—incident identifier for the alert
duplicateTaskId (Guid)—Task ID of the duplicated alert
WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console
ItilStatus (ItilTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Canceled, Duplicate, Resolved, Closed)
AffectedTargetConfigurationItemId (Guid)—System ID on which the condition was detected
ConfigurationItemId (Guid)—IT component to which the alert pertains
AffectedServices (string)—IT Service affected by the alert or incident
AffectedOrganizations (string)—organizations that consume the IT service affected by the alert or incident
Severity (ItilTechnicalSeverity)—severity of the task (Low, Normal, High)
AutomationSummary (string)—file path for the related automation summary
Name (string)—name of the object
Description (string)—text that describes the object
DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.
ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.
CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.
Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)
NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task
ExternalSystem (string)—external system for the task
**ExternalId** (string)—external Id for the task

**RelatedTaskIds** (List<Collection of Guids>)—Task ID of the related task

**CategoryIds** (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an indirect membership in, such as in the case of a category within a category.

**Parameters** (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**Return Type**

None

**UpdateApprovalTask**

Updates the properties of a defined approval task

**Parameters**

**nameOrId** (string)—display name or unique identifier of the task

**Message** (string)—informs the approver what is being requested

**ApprovalChoiceIndex** (int)—0-based index of the approval choices in the task

**AutomationSummary** (string)—file path for the related automation summary

**ApprovalChoices** (List<Collection of strings>)—choices available to the approver

**ApprovalStatus** (ApprovalTaskStatus)—current status of the task (New, Assigned, Pending, InProgress, Waiting, Canceled, Completed)

**WebFormXSLFileName** (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

**Name** (string)—name of the object

**Description** (string)—text that describes the object

**DueDate** (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

**ExpirationDate** (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

**CompletedTime** (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

**Priority** (TaskPriority)—indicates the priority of the task (Low, Medium, High)

**NotificationRecipients** (List<Collection of strings>)—list of recipients to be notified about the task

**ExternalSystem** (string)—external system for the task

**ExternalId** (string)—external Id for the task

**RelatedTaskIds** (List<Collection of Guids>)—Task ID of the related task

**CategoryIds** (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an indirect membership in, such as in the case of a category within a category.

**Parameters** (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**Return Type**
None

**UpdateChangeRequestTask**

Updates the properties of a change request task

**Parameters**

- **nameOrId** (string)—display name or unique identifier of the task.
- **ChangeRequestClass** (int)—identifier for the change request
- **ChangeRequestIdentifier** (string)—Cisco Process Orchestration generated ID number for the change request task
- **ReasonForChange** (string)—describes the business justification for the request
- **ChangeTiming** (string)—deadline date or time for the change
- **WebFormXSLFileName** (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console
- **AffectedTargetConfigurationItemId** (Guid)—System ID on which the condition was detected
- **ConfigurationItemId** (Guid)—IT component to which the alert pertains.
- **AffectedServices** (string)—IT Service affected by the alert or incident
- **AffectedOrganizations** (string)—organizations that consume the IT service affected by the alert or incident
- **Severity** (ItilTechnicalSeverity)—severity of the task (Low, Normal, High)
- **AutomationSummary** (string)—file path for the related automation summary
- **Name** (string)—name of the object
- **Description** (string)—text that describes the object
- **DueDate** (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.
- **ExpirationDate** (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.
- **CompletedTime** (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.
- **Priority** (TaskPriority)—indicates the priority of the task (Low, Medium, High)
- **NotificationRecipients** (List<Collection of strings>)—list of recipients to be notified about the task
- **ExternalSystem** (string)—external system for the task
- **ExternalId** (string)—external Id for the task
- **RelatedTaskIds** (List<Collection of Guids>)—Task ID of the related task
- **CategoryIds** (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an indirect membership in, such as in the case of a category within a category.
- **Parameters** (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

**Return Type**

None
UpdateGuidedOperationTask
Updates the properties of a guided operation task

Parameters
nameOrId (string) — display name or unique identifier of the task

GuidedOperationStatus GuidedOperationTaskStatus) — current status of the task (New, Assigned, Pending, InProgress, Waiting, Closed, Bypassed, Canceled, Completed)

Instructions (string) — step-by-step process for handling a task

WebFormXSLFileName (string) — name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

Name (string) — name of the object

Description (string) — text that describes the object

DueDate (string) — indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

ExpirationDate (string) — when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string) — indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority) — indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>) — list of recipients to be notified about the task

ExternalSystem (string) — external system for the task

ExternalId (string) — external Id for the task

RelatedTaskIds (List<Collection of Guids>) — Task ID of the related task

CategoryIds (List<Collection of Guids>) — categories that this task directly belongs to, if any. Note that this does not include categories that the process has an indirect membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>) — collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

Return Type
None

UpdateIncidentTask
Updates the properties of a task which requires the assignee to resolve an issue

Parameters
nameOrId (string) — display name or unique identifier of the task

IncidentClass (int) — value indicating the class of the incident

IncidentIdentifier (string) — ID of the incident

ReportingUser (string) — user name of the individual who reported the incident and contact information of the user who called IT to report the problem

ReportingUserDetails (string) — contact information of the individual who reported the incident

OriginatingAlertIds (List<Collection of Guids>) — Alert ID which triggered the incident
ResolveOriginatingAlerts (bool)—indicates whether Alert ID was resolved using True/False value

WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console

ItilStatus (ItilTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Canceled, Duplicate, Resolved, Closed)

AffectedTargetConfigurationItemId (Guid)—System ID on which the condition was detected

ConfigurationItemId (Guid)—IT component to which the alert pertains

AffectedServices (string)—IT Service affected by the alert or incident

AffectedOrganizations (string)—organizations that consume the IT service affected by the alert or incident

Severity (ItilTechnicalSeverity)—severity of the task (Low, Normal, High)

AutomationSummary (string)—file path for the related automation summary

Name (string)—name of the object

Description (string)—text that describes the object

DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.

ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.

CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.

Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)

NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task

CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INdirect membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

Return Type
None

UpdateReviewTask

Updates the properties of the review task which requires a message and a file path for a document for review. In Cisco Process Orchestrator, this task is called the Review Request task.

Parameters

nameOrId (string)—display name or unique identifier of the task

ReviewStatus (ReviewTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Waiting, Canceled, Completed)

DocumentPath (string)—file path for the document to be reviewed

Message (string)—message that informs the reviewer of why document needs to be reviewed
**UpdateSurveyTask**

Updates the set of questions requiring a user or group response in order to gather a large set of information. In Cisco Process Orchestrator, this task is called the Input Request task.

**Parameters**

- nameOrId (string)—display name or unique identifier of the task
- Message (string)—introductory message for the input request
- SurveyStatus (SurveyTaskStatus)—status of the task (New, Assigned, Pending, InProgress, Waiting, Canceled, Completed)
- WebFormXSLFileName (string)—name of the source XML text file to transform the task XML into HTML for viewing in the Web Console
- Name (string)—name of the object
- Description (string)—text that describes the object
- DueDate (string)—indicates the time period the task should be resolved. Note that this is the date AND time in UTC when the task is due.
- ExpirationDate (string)—when the task expires. Note that this is the date AND time in UTC when the task expired.
- CompletedTime (string)—indicates the time period the task was completed. Note that this is the date AND time in UTC when the task is completed.
- Priority (TaskPriority)—indicates the priority of the task (Low, Medium, High)
NotificationRecipients (List<Collection of strings>)—list of recipients to be notified about the task

ExternalSystem (string)—external system for the task

ExternalId (string)—external Id for the task

RelatedTaskIds (List<Collection of Guids>)—Task ID of the related task

CategoryIds (List<Collection of Guids>)—categories that this task directly belongs to, if any. Note that this does not include categories that the process has an INdirect membership in, such as in the case of a category within a category.

Parameters (List<NamedParameter>)—collection of named parameters. The named parameter is a generic name/value pair that can be used for any task to add extra information.

Return Type

None
Viewing Tasks
This section describes how to view configuration properties of an existing task in Cisco Process Orchestrator.

**ViewAlertTaskProperties**
Retrieves the configuration properties of an alert task

**Parameters**
taskId (string)—Id of the task

**Return Type**
AlertTaskConfigurationData

**ViewApprovalTaskProperties**
Retrieves the configuration properties of an approval task

**Parameters**
taskId (string)—Id of the task

**Return Type**
ApprovalTaskConfigurationData

**ViewChangeRequestTaskProperties**
Retrieves the properties of a change request task

**Parameters**
taskId (string)—Id of the task

**Return Type**
ChangeRequestTaskConfigurationData

**ViewGuidedOperationTaskProperties**
Retrieves the properties of a guided operation task

**Parameters**
taskId (string)—Id of the task

**Return Type**
GuidedOperationTaskConfigurationData

**Exception**
If an ambiguous name is provided. "The given name matches more than one item. This operation will not be performed."

**ViewIncidentTaskProperties**
Retrieves the properties of an incident task
Parameters
taskId (string)—Id of the task

Return Type
IncidentTaskConfigurationData

ViewReviewTaskProperties
Retrieves the properties of a review task

Parameters
taskId (string)—Id of the task

Return Type
ReviewTaskConfigurationData

ViewSurveyTaskProperties
Retrieves the properties of an input request task

Parameters
taskId (string)—Id of the task

Return Type
SurveyTaskConfigurationData
System Web Service


GetPublicKey

Users will be able to retrieve a string representation of Cisco Process Orchestrator’s public RSA key to be used for external string encryption. The returned string will be Base64 encoded.

Parameters

None

Return Type

String

ImportEncryptionKeys

Imports a RSA public / private key pair file into a Cisco Process Orchestrator environment. Update permission on the “Environment Settings” object is required to import new public / private key pair.

Parameters

keyFilePath (string)—Universal Naming Convention (UNC) file name of the RSA key file
encryptedPassword (string)—password to access the key file, encrypted by Cisco Process Orchestrator’s RSA public key from the GetPublicKey Web service method

Return Type

Boolean – Indicates if the method succeeds.

Exceptions

Upon failure to decrypt the password, it raises an exception “The server failed to import encryption key file. It encountered an error when decrypting password of the encryption key file. The password should be encrypted with Cisco Process Orchestrator's external public key. Clear text password is not supported.”

Upon failure to import the encryption keys, it raises an exception “The server failed to import encryption key file”. Its inner exception has more error information.

GetEnvironmentInformation

Returns Cisco Process Orchestrator’s environment information, including environment name and environment GUID

Parameters

None

Return Type

EnvironmentInformation object