



Upload

In order to provision services, the Cisco Provisioning Center database must have detailed knowledge of the managed subnetworks. Using a procedure called upload, objects are created within the Cisco Provisioning Center database that represent objects of the managed network.

Performing an upload of managed equipment involves the following steps:

Table 2-1 Upload Steps

Task	Page Reference
Create a network object	page 2-2
Create node objects	page 2-2
Perform a node upload	page 2-2, page 2-3
Create a RADIUS object	page 2-3
Upload RADIUS server	page 2-4

Cisco Provisioning Center supports the following types of upload:

- Given a network object, upload fabric elements (for example, nodes and physical ports)
- Given a node or network object and fabric elements, upload service elements (objects used to create services, for example, PVCs)
- Given a node or network object, upload the fabric and service elements

The upload function takes precedence over any Transactions which are running at the time of upload. If the upload function makes a change back to the fabric which affects a running Transaction (such as deleting a logical port that the threader has decided to use) then this Transaction fails and must be restarted.

A network object must be created in order to perform an upload.



Note

The term upload does not refer to the creation of inter-network links because they are outside the scope of any single Equipment Module. See the section titled [“Adding Inter-Network Links \(Topology\) Information”](#) later in this chapter.

Creating a Network Object

One network object must be created for each network. The following steps explain how to create and upload a network object:

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- Step 1** Navigate to **networks> Cisco 6400 Equipment Module> Elements> Network**.
- Step 2** **Create**
- Step 3** **Common Attributes** **Common Parameters**
- Step 4** **save** **apply now**
-

Creating a Node Object

One node object must be created for each Cisco 6400 in the network. The following steps explain how to create and upload a node object:

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- Step 1** Navigate to **networks> Cisco 6400 Equipment Module> Elements> Node**.
- Step 2** Click the **Create** button on the Action bar.
- Step 3** Enter the attribute values under the **Common Attributes** and **NSP Specific Information** groups. Refer to Table A-5 in Appendix A for attribute information.
- Step 4** Click on the **save** or **apply now** button to save or apply the node object.
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Uploading the Fabric Elements for a Node

To upload the fabric elements such as physical ports for a particular node, complete the following steps:

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- Step 1** Navigate to **networks > Cisco 6400 Equipment Module > Elements > Node**.
The Content Area displays the Lister View for Node.
- Step 2** In the Lister View, click the **Get List** button.
Optionally, use the field filters to narrow your selection before you click the **Get List** button.
- Step 3** Check the box in the Select column next to the node element you want to upload from.
- Step 4** Click the **Upload** button on the Action Bar.
- Step 5** From the **Upload Type** pull-down menu, select **UPLOAD FABRIC**.
- Step 6** Click the **Perform Upload** button to initiate the upload.
The Content page tells you that the upload has started.
- Step 7** To monitor the upload progress, click the hyperlink in the Content Area.
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Note CPC does not indicate Upload completion.

Uploading Service Elements for a Node

This upload is used for incremental uploads. It finds all connection objects attached to the node. This procedure is not part of the initial Service element uploading. Before beginning a service upload on a node, it is important for you to verify that each NRP has been correctly configured with an Access Name, Access Password, Enable Password and IP address. If any of these items have not been configured, you must do so now in order to ensure a successful upload. If the IP address is not specified for an individual NRP, upload will skip this NRP. An IP address is not required for NRP2.

To upload the Service elements of a particular node, complete the following steps:

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- Step 1** Navigate to **networks > Cisco 6400 Equipment Module > Elements > Node**.
The Content Area displays the Lister View for Node.
 - Step 2** In the Lister View, click the **Get List** button.
Optionally, use the field filters to narrow your selection before you click the **Get List** button.
 - Step 3** Check the box in the Select column next to the node element you want to upload from.
 - Step 4** Click the **Upload** button on the Action Bar.
 - Step 5** From the **Upload Type** pull-down menu, select **UPLOAD SERVICES**.



Note You must upload fabric before you can upload services.

- Step 6** Click the **Perform Upload** button to initiate the upload.
The Content page tells you that the upload has started.
 - Step 7** To monitor the upload progress, click the hyperlink in the Content Area.
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Note CPC does not indicate Upload completion.

RADIUS Server Upload

CPC allows you to upload tunnel information and service lists for single hop tunnels from a RADIUS server.

Creating a RADIUS Object

You must create a RADIUS object before you can perform an upload. The following steps explain how to create a RADIUS object.

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- Step 1 **networks Cisco 6400 Radius Server**
 - Step 2 **Create**
 - Step 3 **Common Attributes RADIUS Attributes**
 - Step 4 **save apply now**

**Note**

Uploading the RADIUS Server

When a RADIUS object is created, both a Primary RADIUS server and a Backup RADIUS server are specified. Single-hop tunnel information is uploaded from the Primary server. If Primary server upload fails, Backup server upload will be attempted.

To upload RADIUS, complete the following steps:

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- Step 1** Navigate to **networks > Cisco 6400 Radius Server**.
The Content Area displays the Lister View for Radius Server.
 - Step 2** In the Lister View, click the **Get List** button.
Optionally, use the field filters to narrow your selection before you click the **Get List** button.
 - Step 3** Check the box in the Select column next to the RADIUS object you want to upload from.
 - Step 4** Click the **Upload** button on the Action Bar.
 - Step 5** From the **Upload Type** pull-down menu, select **UPLOAD SERVICES**.
 - Step 6** Click the **Perform Upload** button to initiate the upload.
The Content page tells you that the upload has started.
 - Step 7** To monitor the upload progress, click the hyperlink in the Content Area.
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Viewing the Upload Progress

CPC allows you to view the progress of the upload in real time. During an upload, you can use the following procedure to view a log file that details site information, service and/or fabric information, and upload processes depending on the type of upload being performed. This log file will also report the status of the upload procedure after its completion.

During an upload process, you can view the progress of the upload request. To view a log of the running upload process, complete the following steps:

Step 1 Navigate to **administration > Monitoring > Uploads**.

The Content area displays the Monitoring Upload Transactions Lister View. Initially, there are no transactions listed.

Step 2 (Optional) Change the refresh interval time by keying in the number of seconds to refresh the screen.



Note Monitoring must be off if you want to change the refresh interval time.

Step 3 Click the **Start Monitoring** button to start monitoring Upload Transactions.



Note When monitoring begins, the Start Monitoring button changes to **Stop Monitoring**.

Viewing the Log of an Upload Transaction

Step 1 Monitoring Upload Transaction Lister View, Transaction that you want to operate on.



Log Info

Re-Upload

The Cisco Provisioning Center database must be continually updated in order to stay synchronized if changes are being made to nodes in the network. You should re-upload after any of the following:

- an existing node has been upgraded
- new hardware has been added to a switch
- you must recover from a failure situation (to synchronize the database with the network)

Service elements that were not created by Cisco Provisioning Center (both for initial population of the database and also for co-existence with other provisioning products) have been added

To re-upload you only need to upload the fabric and Service elements of a particular node. For more information, refer to the sections above titled, "[Uploading the Fabric Elements for a Node](#)" and "[Uploading Service Elements for a Node](#)."

Adding Inter-Network Links (Topology) Information

Adding Links Using the GUI

Step 1

Step 2

Step 3

Guide

CPC User's

Step 4
