



## Uploading Fabric and Services

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This chapter contains information on how to upload Cisco NI-2 network elements into the CPC database through the Equipment Module.

The This is the name of the product (EM, SA, or software package) will upload the following fabric elements from your network:

- nodes (DSLAMs)
- DSL templates
- DSL physical ports
- WAN physical ports
- ATM logical ports
- FR logical ports

The This is the name of the product (EM, SA, or software package) will upload the following Service elements from your network:

- ATM cross connections
- FR-ATM interworking cross connections
- ATM Connection Traffic Table
- FR Connection Traffic Table



**Note**

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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.

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In order to stay synchronized, the CPC database must be continually updated, if changes are made to a DSLAM outside of CPC. You must re-upload after any of the following scenarios:

- A new DSLAM has been added to the network.
- New hardware has been added to a DSLAM (e.g. cards).
- You need to recover from a failure situation (to synchronize the database with the network).
- Service elements have been manually configured on the same network elements that CPC is managing. This allows flexibility for setting up and repairing services.

Depending on the type of change that has taken place on a DSLAM, you may need to upload the fabric and/or Service elements for the node. Re-upload operations are the same as initial upload operations.

You must perform a fabric upload when there are hardware modifications in the network. If services were configured outside of CPC, you must perform a service upload. When a combination of hardware and configuration changes has been made to the network, you must upload both fabric and Services.

Concurrent upload/download allows CPC to simultaneously upload and download to two or more separate network elements.

## Initial System Upload

In order to provision services, the CPC database must have detailed knowledge of the managed subnetworks. During upload, objects are created within the CPC database that represent objects of the managed network.

CPC supports the following types of upload:

- Given a network object, upload only the fabric elements for the nodes in that network
- Given a network object, upload only the Service elements for the nodes in that network
- Given a network object, upload all fabric and Service elements for the nodes in that network
- Given a node object, upload only the fabric elements for that node
- Given a node object, upload only the Service elements for that node
- Given a node object, upload all fabric and Service elements for that node

The upload function takes precedence over any Transactions that 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.

Network and node objects must be created in order to perform an upload.

## Network Upload

After creating a network object, you can upload its fabric and Service elements. To upload the fabric and Service elements for a network object, complete the following steps:

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- Step 1** Navigate to **networks** > This is the name of the product (EM, SA, or software package) > **Elements** > **Network**.
- The Content Area displays the Lister View for Network.
- 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 network element you want to upload from.
- Step 4** Click the **Upload** button on the Action Bar.
- Step 5** Select an Upload Type from the pull-down menu in the Content Area.
- Step 6** Click the **Perform Upload** button to initiate the upload.
- The Content page indicates 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.

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## Node Upload

After creating a node object, you can upload its fabric and Service elements. To upload the fabric and Service elements for a node object, complete the following steps:

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- Step 1** Navigate to **networks > CPC > 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** Select an Upload Type from the pull-down menu in the Content Area.
  - 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.

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## Viewing the Upload Progress

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:

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- 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** Click the **Start Monitoring** button to start monitoring Upload Transactions.  
Change the refresh interval time by keying in the number of seconds to refresh the screen.
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**Note** Monitoring must be off if you want to change the refresh interval time.

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To view the log of a monitored upload Transaction, use the following procedure:

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- Step 1** In the Monitoring Upload Transaction Lister View, check the box in the Select column next to the Transaction that you want to operate on.



**Note** You can operate on only one Transaction at a time.

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- Step 2** Click the **Log Info** button in the Action Bar.  
A snapshot of the upload Transaction Log displays.
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## Adding Inter-Network Links (Topology) Information

After uploading new fabric and Service elements, you must add extra topology information that the upload function is unable to determine (because the information is not known to the node). Topology information or inter-network links are outside the scope of a single node or subnet manager and you must add this data manually through the CPC GUI or the FTI. Likewise, in a subtended configuration, you must add links from subtended to subtending nodes.

### Adding Links Using the GUI

To add links using the CPC GUI, complete the following steps:

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- Step 1** Navigate to **networks > Standard > Elements > Link**.  
The Content Area displays the Link Lister.
- Step 2** Click the **Create** button on the Action Bar.  
A Link Object View appears in the Content Area.
- Step 3** Enter the required attribute values in the Link Object View. For attribute values, refer to the *CPC User's Guide*.
- Step 4** Click the **apply** button directly above the Object View to create the link.
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