



## NodeView

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This chapter describes the EMS NodeView, and includes the following sections:

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## About NodeView

The EMS NodeView provides a graphical representation of an NE, complete with installed cards and LEDs. (See Figure 6-1, Figure 6-2, and Figure 6-3.) Use NodeView to provision all slots, cards, and lines in the NE. See Chapter 4, “Initial Node Provisioning,” for provisioning information.

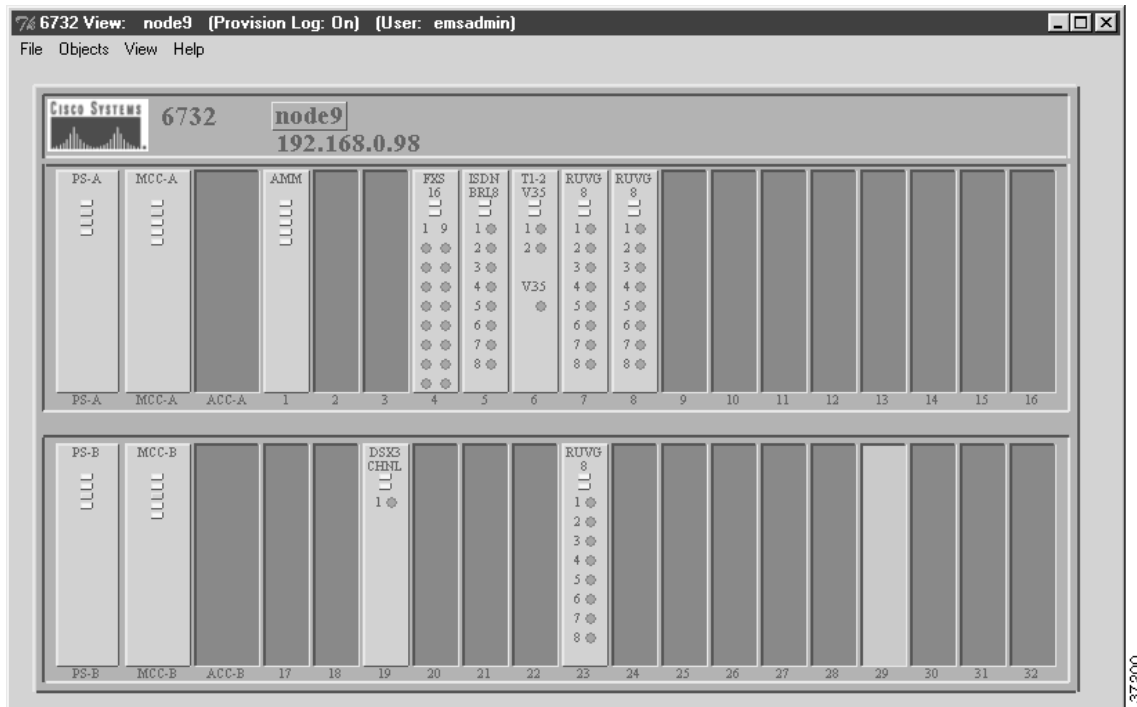
## Launching NodeView

From NetView, open the NodeView of an NE using one of the following methods:

- Double-click the **Node** icon
- Right-click the **Node** icon, and select **Provision** from the popup menu.

Figure 6-1, Figure 6-2, and Figure 6-3 show the NodeView of the Cisco 6732, Cisco 6705, and Cisco IAD1101, respectively.

*Figure 6-1 Cisco 6732 NodeView*

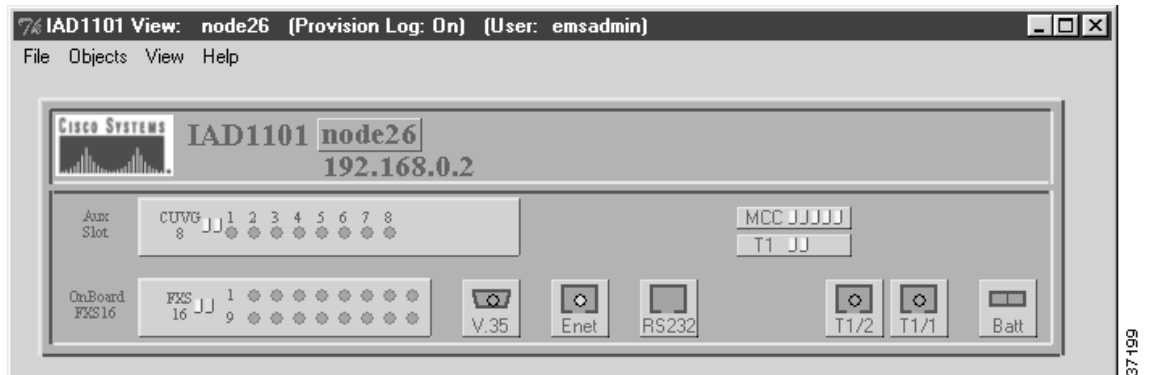


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Figure 6-2 Cisco 6705 NodeView



Figure 6-3 Cisco IAD1101 NodeView



## Adding a Card

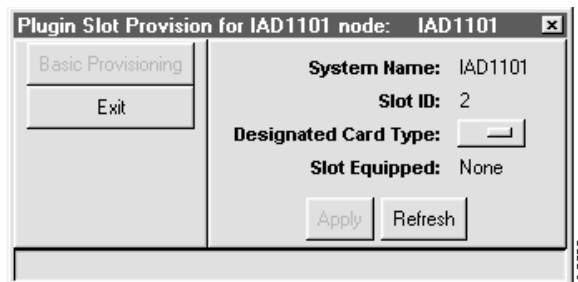
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- Step 1** From Cisco 6700 NodeView, insert a card in the desired chassis slot. For detailed card and slot information, consult the appropriate hardware installation guide.
- Step 2** Select **View > Refresh Card Display** from the menu bar. EMS refreshes the NodeView display to reflect newly inserted cards.
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## Provisioning Slots

This procedure describes how to provision a slot for a specific card in a Cisco 6732, Cisco 6705, or Cisco IAD1101 chassis (this example shows the Cisco IAD1101).

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- Step 1** From Cisco 6700 NodeView, double-click the empty slot to be provisioned. EMS launches the plugin slot provisioning window. (See Figure 6-4.)

**Figure 6-4** Plugin Slot Provisioning Window



- Step 2** In the **Designated Card Type** field, select the desired card type from the pull-down list. EMS displays only the cards that are compatible with the selected slot.
- For more information about slot and card compatibility, consult the hardware installation guide for your NE. (See “Obtaining Documentation” on page xv of the Preface).
- Step 3** Click **Apply** to provision the slot.
- Step 4** Select **View > Refresh Card Display** from the menu bar. EMS refreshes the display to reflect newly provisioned slots.
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The following modules can be provisioned in EMS. This example refers to the Cisco IAD1101 NodeView (see Figure 6-3 on page 6-3):

- **Main Control Card**—located in the upper right portion of the window. The indicator turns orange, along with the Ethernet, RS-232, and Battery connectors.
- **Integrated T1 with V.35**—located below the MCC indicator.
- **Integrated FXS**—located in the lower left portion of the window.
- **Expansion Slot**—located above the FXS/16 module indicator.

# About Placing Cards In Service

EMS provides both individual and batch procedures for placing cards in service. This section includes the following procedures:

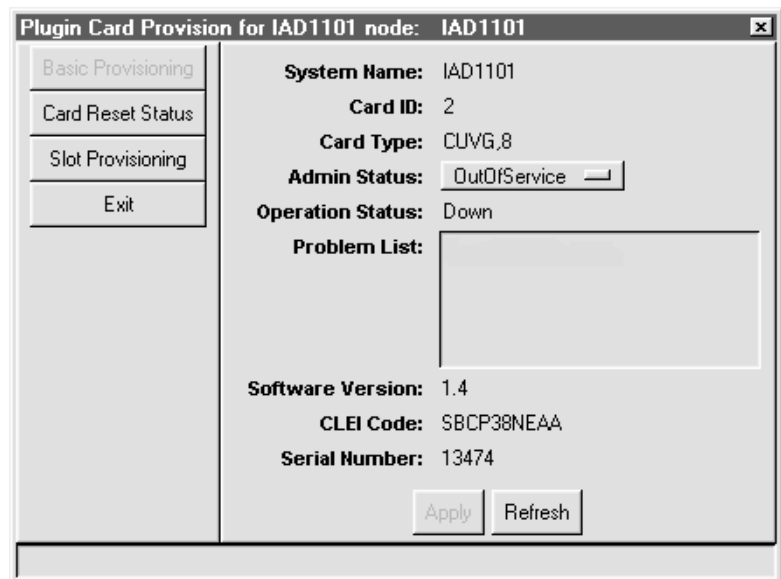
- Provisioning Individual Cards, page 6-5
- Batch Provisioning Cards, page 6-6

After placing a card in service, refresh the window to confirm the provisioning.

## Provisioning Individual Cards

- Step 1** From Cisco 6700 NodeView, double-click the card to be placed in service. EMS launches the plugin card provisioning window. (See Figure 6-5.)

*Figure 6-5 Plugin Card Provisioning Window*

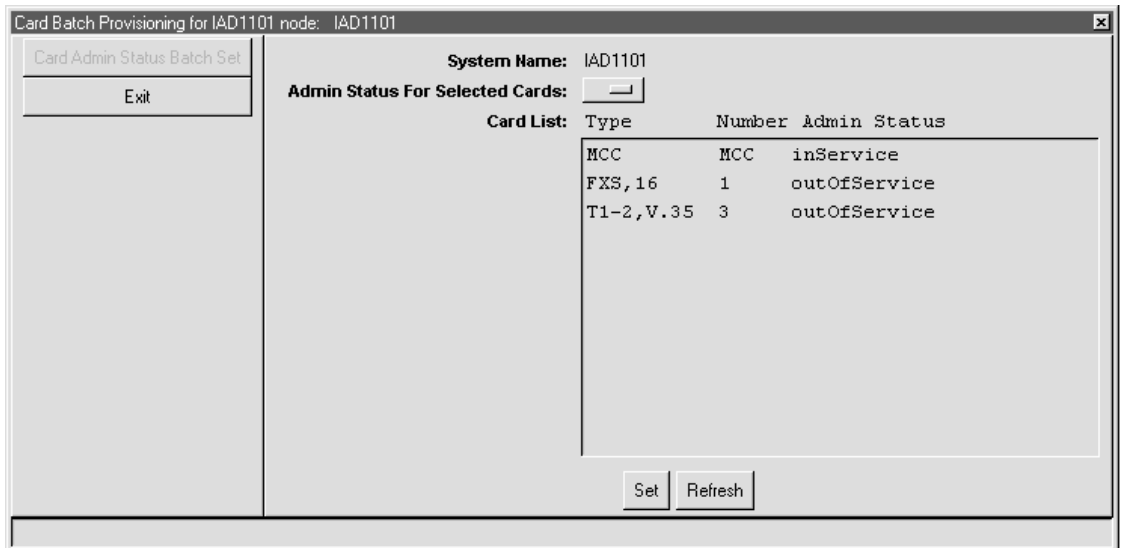


- Step 2** Set the **Admin Status** field to **InService**.
- Step 3** Click **Apply** to place the card in service.
- Step 4** Click the **Exit** button on the left side of the window to return to Cisco 6700 NodeView.
- Step 5** Select **View > Refresh Card Display** from the menu bar. EMS refreshes the display to reflect the provisioning.

## Batch Provisioning Cards

- Step 1** From Cisco 6700 NodeView, select **Objects > Card Batch Provisioning** from the NodeView menu bar. EMS displays the card batch provisioning window. (See Figure 6-6.) The **Card List** lists all cards that the NE has detected as installed.

*Figure 6-6 Card Batch Provisioning Window*



- Step 2** In the **Admin Status for Selected Cards** field, select **inService**.
- Step 3** In the **Card List** window, select the line cards to be placed in service.
- Step 4** Click the **Set** button to put the cards in service. EMS works down the list, changing each **outOfService** card to **inService**.
- Step 5** Click the **Exit** button on the left side of the window to return to Cisco 6700 NodeView.
- Step 6** Select **View > Refresh Card Display** from the menu bar. EMS refreshes the display to reflect the provisioning.

## Provisioning Broadband Cards with 1:1 Protection

EMS allows one-to-one (1:1) protection of the following broadband cards

- DSX3-CHNL
- STSX1-CHNL



**Note**

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One-to-one protection only applies to cards installed in the Cisco 6732 chassis.

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If one card fails, the second card automatically restores the traffic through the chassis to the backplane. This ensures greater dependability in the event of a hardware failure.

Broadband protection can be provisioned only on designated broadband slots. The following pairs of slots in the Cisco 6732 chassis are designated for broadband protection:

- Slots 17 and 18
- Slots 19 and 20

In addition to provisioning broadband protection with EMS, the protected cards require a special cable, provided with the card, which is designed specifically for joining the two cards. For more information, see the *Cisco 6732 Full Access Device Hardware Installation Guide*.



**Note**

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Extended Super Frame (ESF) connections and inter-node data links (INDL) are not protected with broadband line card protection.

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- Step 1** From Cisco 6700 NodeView, select **Objects > Protection Group** from the NodeView menu. EMS launches the protection group provisioning window. (See Figure 6-7.)

Figure 6-7 Protection Group Provisioning Window

The screenshot shows a window titled "Protection Group Provision for IAD1101 node: IAD1101". On the left side, there is a vertical menu with three items: "1+1/1:1 Protection Group", "Protection Group List", and "Exit". The main area of the window contains the following configuration options:

- System Name:** IAD1101
- Protection Group ID:** [Dropdown menu]
- Protected Card:** [Dropdown menu]
- Protecting Card:** [Dropdown menu]
- Protect Active Status:** [Dropdown menu]
- Protect Switch Type:** [Dropdown menu]
- Protect Linear Direction:** [Dropdown menu]
- Protect Revertive:** [Dropdown menu]
- Wait to Restore(seconds):** 300 [Spinners]
- Protect Switch Request:** [Dropdown menu]
- Protect Switch Direction:** [Dropdown menu]
- Protect Switch Status:** [Dropdown menu]
- Protect Problem List:** [Text area]

At the bottom right of the main area, there are three buttons: "Apply", "Refresh", and "Delete". A vertical label "386565" is located on the right edge of the window.



- Step 2** Set the following fields to provision broadband 1:1 protection:
- **Protected Switch Direction**—Select **ProtectingToProtected**, which allows the protecting card to take over for the protected card.
  - **Protection Group ID**—Select **1** for slots 17 and 18, or **2** for slots 19 and 20.
  - **Protected Card**—Enter the slot number of the active card. This is the card that remains active during normal operation.
  - **Protecting Card**—Enter the slot number of the standby card. This is the card that becomes active in the event of an active card failure.
  - **Protect Revertive**—Select **Yes**. This allows the active card to switch back into service automatically when fully functional.
  - **Protect Switch Request**—Select **Release**. This allows the switch request to be established.
- Step 3** Click **Apply** to activate broadband 1:1 protection.
- Step 4** Select **View > Refresh Card Display** from the menu bar. EMS refreshes the display to reflect the provisioning.
- Step 5** Repeat this procedure to provision another protection group.
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**Note** See Chapter 7, “Provisioning Lines,” for line provisioning procedures.

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## Provisioning Node Attributes

The NE provision window is used to provision important node attributes and parameters. To open the NE provision window, double-click the **Node Nameplate** in Cisco 6700 NodeView. (See Figure 6-8. and Figure 6-9).

Figure 6-8 Node Nameplate

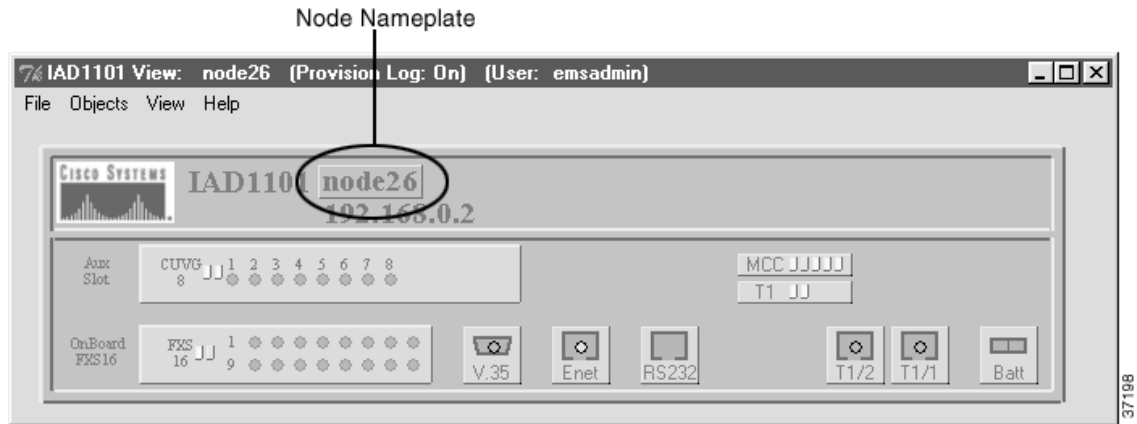
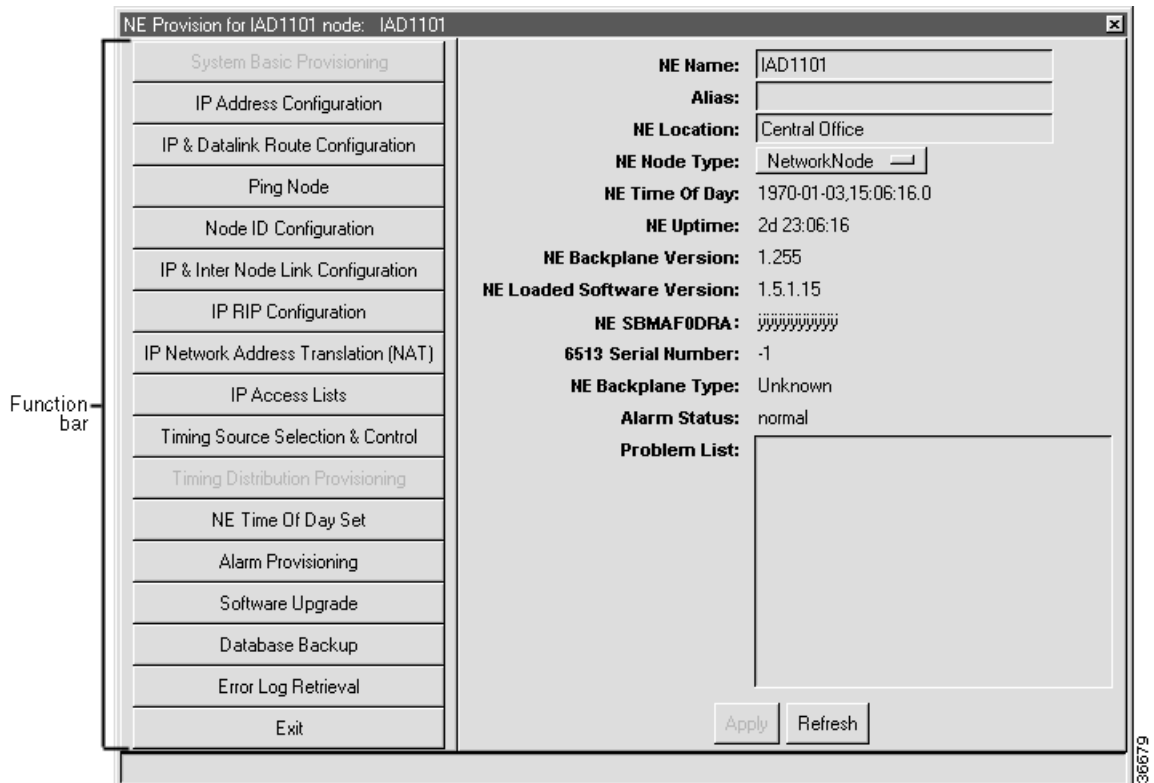


Figure 6-9 NE Provision Window and Function Bar



In Figure 6-9, the left side of the window contains the function bar, a group of buttons used to navigate through the provisioning process. The **System Basic Provisioning** button is grayed out in the function bar. This indicates that the system basic provisioning window is open. To open a different provisioning window, click one of the buttons in the function bar. Click **Exit** to return to Cisco 6700 NodeView.

You can find information and procedures for the following provisioning windows (launched by clicking the corresponding button on the function bar) in the following chapters:

- IP Address Configuration: page 4-9
- IP & Datalink Route Configuration: page 8-3
- Ping Node: page 15-5
- Node ID Configuration: page 8-3
- IP & Inter Node Link Configuration: page 8-12
- Timing Source Selection & Control: page 4-15
- NE Time Of Day Set: page 4-14
- Alarm Provisioning: page 4-13
- Software Upgrade: page 14-5 through page 14-18, and page 15-11
- Database Backup/Restore: page 14-2 (Backup) and page 14-24 (Restore)

