

Provisioning ATM

This chapter describes the procedures to provision the following line cards for ATM services:

- MSDSL-2W (shown in EMS as HDSL2/MS4)
- T1-2-V35
- OC3-AUPSR

Line Provisioning

Starting from node view, double-click the facility to be provisioned. EMS launches the line provisioning window. (See Figure 9-1.)

Figure 9-1 Provisioning Line for ATM

T1-2.V.35 Line Provision for 6732 node: node1

T1-2.V.35 Basic Provisioning	6732 Name: node1
15-Min PM Threshold	T1-2.V.35 Card: 4
1-Day PM Threshold	T1-2.V.35 Line: 1
15-Min PM Data	Admin Status: OutOfService
1-Day PM Data	Operation Status: Down
Far End 15-Min PM Data	Line Coding: B8ZS
Far End 1-Day PM Data	Line Frame Type: ESF
Exit	DS0 Mapping: D4
	Line Mode: DSX1
	Line Buildout: 0-133 Feet
	Loopback: Line
	Reset PM Count: No
	Line Test: Off
	Line Power:
	Bundle Size: 0
	T1-2.V.35 Problem List: Far End Loopback
	Apply Refresh DS0 Signaling

300323

The following fields must be set correctly before ATM can be provisioned on the facility:

- **Line Frame Type:** Set to **HDLU-C** or **HDLU-R**. Endpoints of an ATM virtual channel (VC) should be set to **HDLU-R**.
- **Bundle Size:** Set to the maximum number of DS0 channels provisioned to carry data traffic. This must be greater than 0 to enable ATM provisioning.

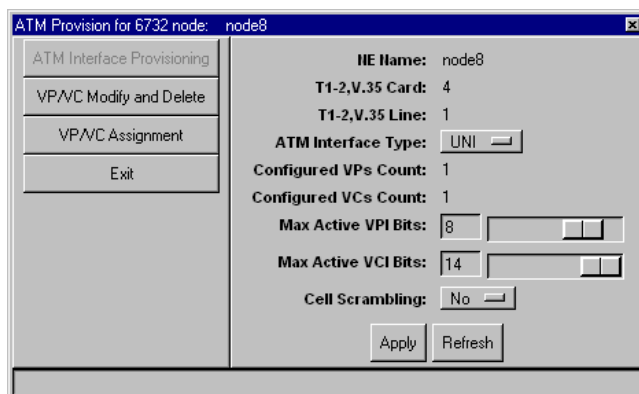
Close the line provisioning window by clicking the **Exit** tab. The line can now be provisioned for ATM.

Assigning Virtual Paths and Virtual Channels

Each line must be provisioned with at least one virtual path (VP) and one virtual channel (VC) before ATM traffic can be accommodated.

- Step 1** Starting from node view, right-click the facility to be provisioned, and select **ATM Provisioning** from the popup menu. EMS launches the ATM provisioning window. (See Figure 9-2.)

Figure 9-2 ATM Provisioning Window

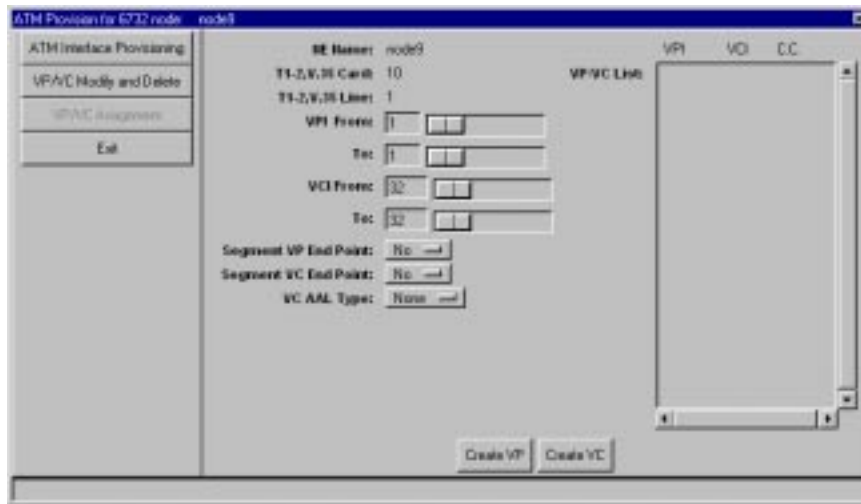


- Step 2** The following ATM parameters should be set according to the ATM application being used:

- **ATM Interface Type**
- **Max Active VPI Bits** and **Max Active VCI Bits**
- **Cell Scrambling**

- Step 3** Click the **VP/VC Assignment** tab. EMS launches the VP/VC assignment window. (See Figure 9-3.)

Figure 9-3 VP/VC Assignment Window



Step 4 Set the following ATM parameters:

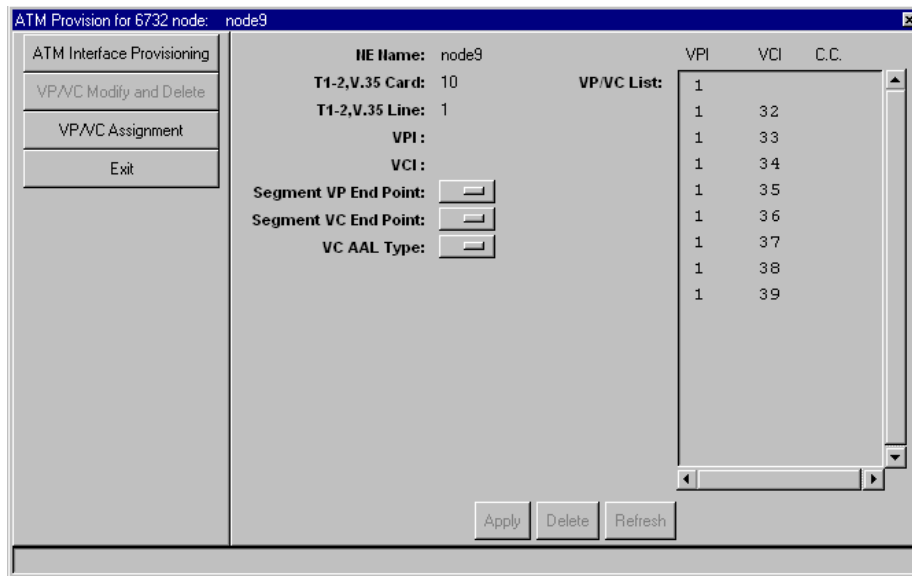
- **VPI From/To:** Enter the range of VPIs to be assigned to this line.
- **VCI From/To:** Enter the range of VCIs to be assigned to this line.
- **Segment VP Endpoint**
- **Segment VC Endpoint**
- **VC AAL Type:** Select **AAL5** to provision the new VCs for ATM Adaptation Layer 5 (AAL5), or select **None** to provision VCs without using an adaption layer.

Step 5 Click **Create VP** to provision the VPs, and click **Create VC** to provision the VCs. The newly created VPs and VCs appear in the **VP/VC List** at the right side of the window.

Deleting VPs and VCs

To delete VPs and VCs provisioned on a particular line, right-click the line icon in node view, and select **ATM Provisioning** from the pop-up menu. Click the **VP/VC Modify and Delete** tab. EMS displays a list of VPs and VCs provisioned on the line. (See Figure 9-4.)

Figure 9-4 VP/VC Assignment Window



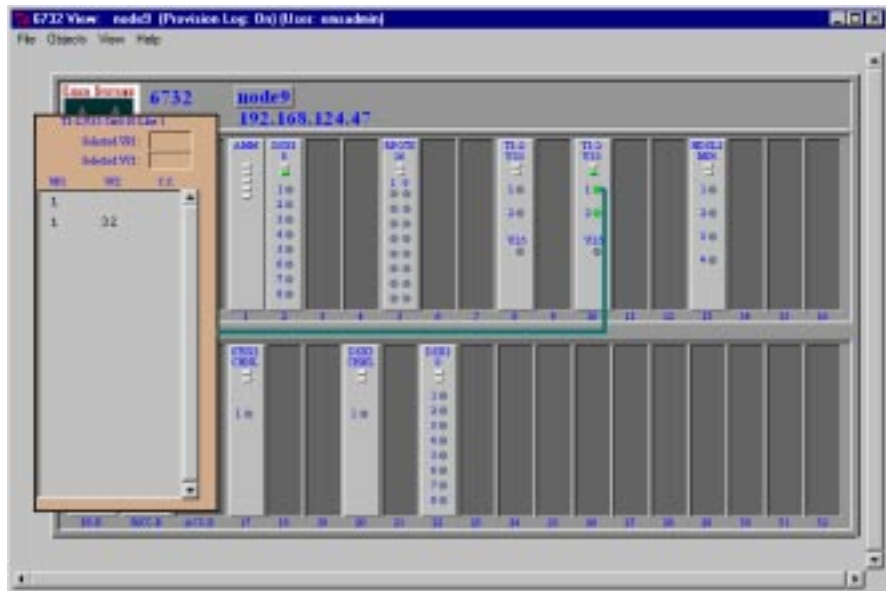
In the **VP/VC List** at the right side of the window, highlight the VPs and VCs to be deleted. Click **Delete** to remove the VPs and VCs. EMS removes the deleted VPs and VCs from the list.

ATM Cross Connect

After a line had been provisioned with a VP/VC, you can create an ATM cross connect to another line in the NE chassis:

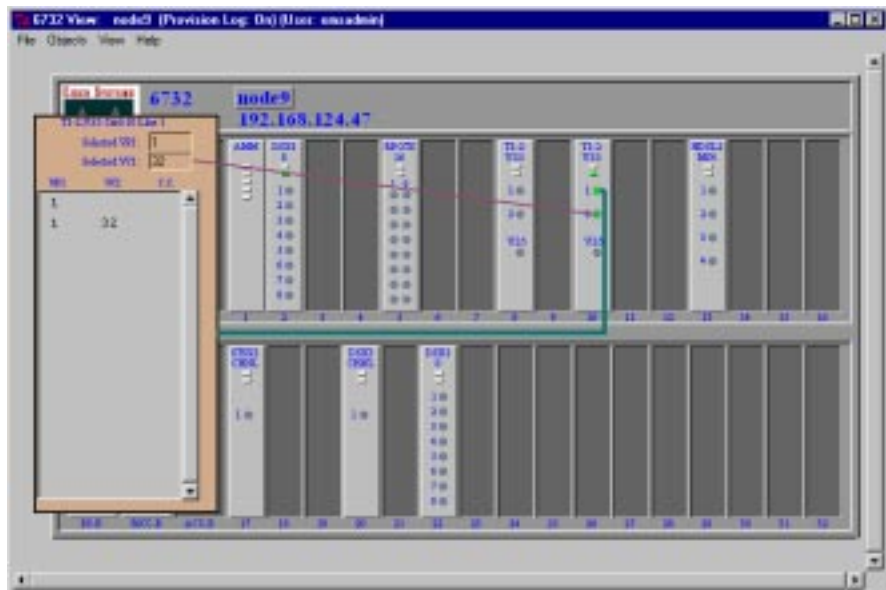
- Step 1** To start ATM cross connect provisioning, enter the node view of the node to be provisioned. Move the cursor to the specific line that will be provisioned.
- Step 2** Right-click the line and select **ATM Cross Connect**. EMS creates a list of all available VP/VCs on the line. (See Figure 9-5.)

Figure 9-5 ATM Cross Connect VP/VC Display



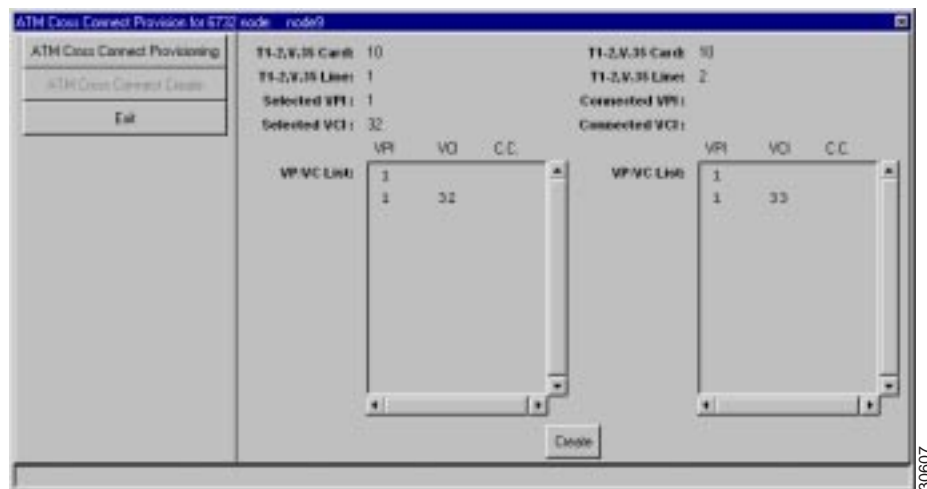
Step 3 Highlight the VP/VC to be cross connected. EMS displays the VP/VC number in the **Selected VPI** and **Selected VCI** windows at the top of the list. (See Figure 9-6.) Click the Selected VCI text box, and drag the cursor to the desired facility.

Figure 9-6 Draw ATM Cross Connect



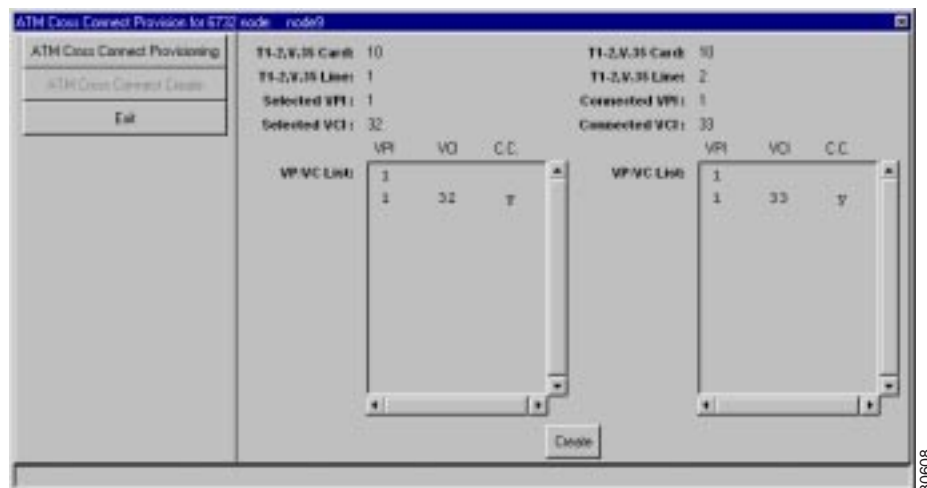
Step 4 After the visual cross connect is drawn, EMS launches the **ATM Cross Connect Provisioning** window. (See Figure 9-7.) The VP/VC list on the left shows all VP/VCs for the source (originating) line, and the VP/VC list on the right shows VP/VCs for the destination line.

Figure 9-7 ATM Cross Connect Provisioning Window



- Step 5** Highlight the source VP/VC to be cross connected in the left **VP/VC List**, then highlight the destination VP/VC in the right **VP/VC List**. You must select one VP/VC on each line.
- Step 6** Click Create to provision the ATM cross connection. Once the cross connection is established, EMS displays the letter **y** next to the connected VP/VC on each line. (See Figure 9-8.)

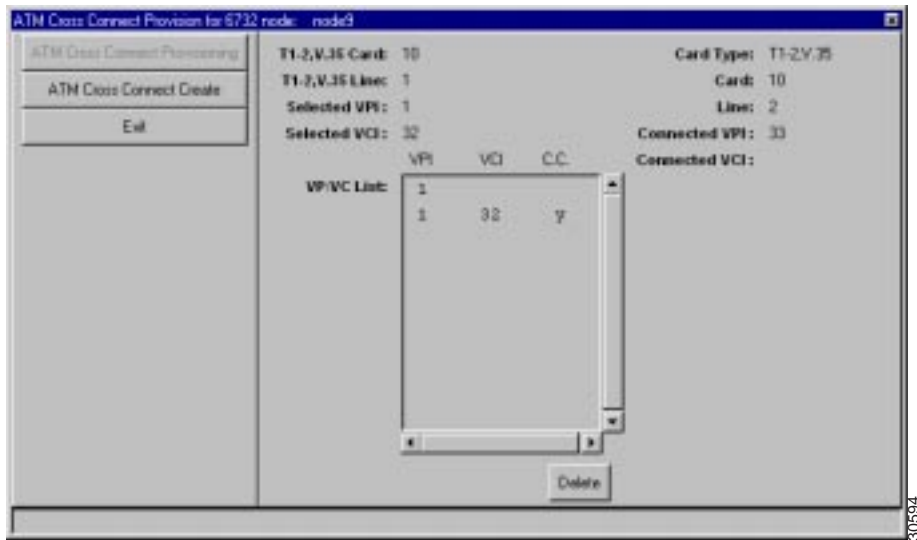
Figure 9-8 ATM Cross Connections Confirmed



Delete ATM Cross Connections

To delete ATM cross connections, right-click on a line in node view, and select **ATM Cross Connect** from the popup menu. EMS launches the ATM cross connect provisioning window. (See Figure 9-9.) The **VP/VC List** displays all VP/VCS configured on the line.

Figure 9-9 ATM Cross Connect Provisioning Window



Highlight the VP/VCI to be deleted, then click **Delete**. EMS removes the deleted cross connections from the VP/VC list display.

Close ATM Cross Connect Display

To close the ATM cross connect display, right-click on the VPI/VCI list in node view, and select **End ATM Cross Connect Display** from the popup menu. EMS closes the cross connect display.

