

Hotwire™ DSLAM, IP Conservative Firmware Update Description, Release 1.1

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This document contains information for the Hotwire™ Digital Subscriber Line Access Multiplexer (DSLAM). Keep this document with your Hotwire DSLAM documentation.

This information applies to the following documents:

- *Hotwire DSLAM for 8310 MVL and 8510 DSL Cards Network Configuration Guide* (Document No. 8000-A2-GB27-00)
- *Hotwire Management Communications Controller (MCC) Card, IP Conservative, User's Guide* (Document No. 8000-A2-GB22-00)
- *Hotwire DSLAM for 8310 MVL and 8510 DSL Cards User's Guide* (Document No. 8000-A2-GB26-00)

Document Summary

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IPC Software

To support VLAN tagging (802.1Q) on the IPC, group mobility must be enabled. To enable group mobility, you must append two lines to the mpm.cmd file on the IPC. The lines are:

```
group_mobility=1
move_from_def=1
```

NOTE:

After the lines are added to the mpm.cmd file, the IPC must be rebooted.

See the *Hotwire 8100/8200 Interworking Packet Concentrator (IPC) User's Guide*, Document No. 8000-A2-GB90 (Feature No. 8200-M2-901 for the CD-ROM), for information on the editing techniques required to append the lines to the mpm.cmd file.

Firmware Version Numbers

For full version 1.1 compatibility, the DSLAM system must have the following (or higher) versions of firmware:

Component	Firmware Version Number
MCC Card	3.01.12
DSL Cards 8510 RADSL 8310 MVL	01.01.12 01.01.12
Endpoints 5620 RTU 6310 MVL	1.01.02 1.01.04
IPC	3.2.4
OpenLane™ DCE Manager	4.0
OpenLane™ DCE Manager for HP OpenView for Windows	2.0

For MIBs, access <http://www.paradyne.com>, select *Service & Support* → *MIBs* → *Hotwire DSL*, and download and install the latest version.

Multi-Drop

Version 1.1 of the DSLAM MVL firmware allows the Access Node (AN) to support two Service Nodes (SNs) and a maximum of 32 end-user systems per port.

IP Conservative 1.1 Upgrade Instructions

NOTE:

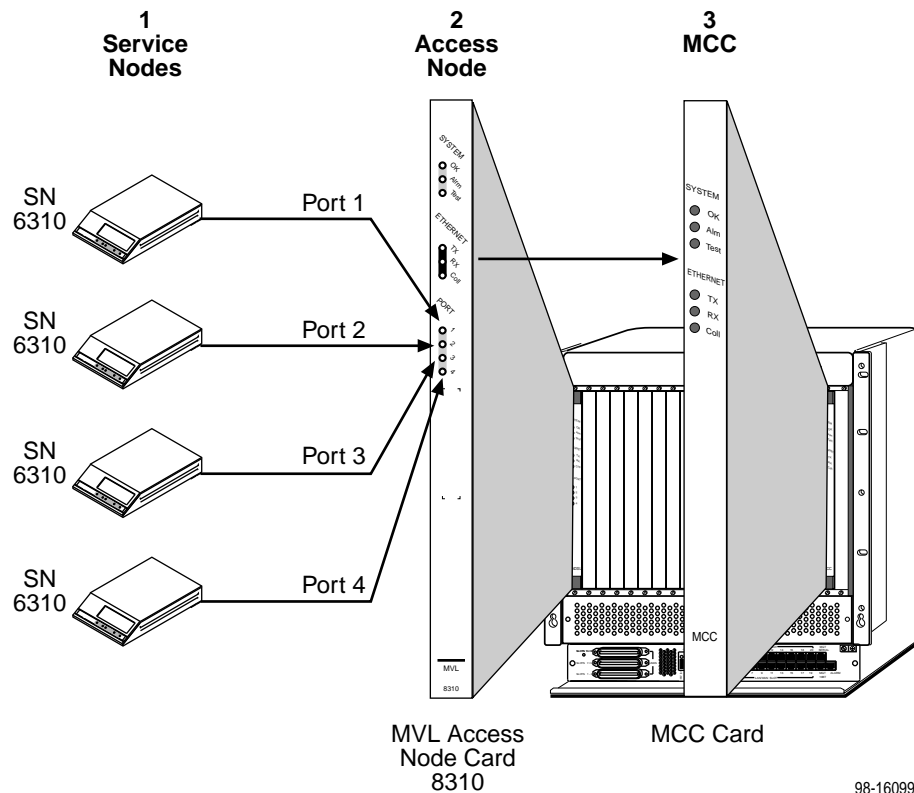
The instructions below are *essential* to a successful upgrade to version 1.1 firmware. All procedures *must* be followed exactly.

The upgrade procedures are essential because portions of version 1.1 software are incompatible with earlier versions (MVL only). If the following procedures are not followed exactly, you can permanently lose communication with the service nodes and endpoints and it will be necessary to visit these locations to resolve the problem.

Upgrade Overview

Use the download function of the MCC card (*Configuration* → *Card Status* → *Download Code*) to download version 1.1 firmware to the components of the DSLAM system. New firmware must be downloaded in the following order:

1. To the desired Service Node (SN) ports (or RTUs)
2. To the Access Node (AN) card
3. To the Management Communications Controller (MCC) card



Download Screen Fields

Field	Description	Input
Download Type	System to be downloaded. NOTE: If you enter SN, fields for Slot # and Port # appear; if you enter AN, a field for Slot # appears.	MCC, AN, or SN
Immediate Apply	Whether the card automatically resets upon completion. Automatically set to yes for SN download.	Yes or No
Image File Name	Name of file to be downloaded from your server. May be a pathname ending with the file name. If the TFTP server is hosted by a DOS machine, then directory and file names must follow the 8.3 DOS convention.	Total pathname must be fewer than 40 characters
TFTP Server IP Address	The Host name or IP address of the TFTP server.	<i>Host /nnn.nnn.nnn.nnn</i> format
Start Transfer	Specify whether you want to start the transfer.	Yes or No (Default = No)

Upgrade Procedures from IP Conservative 1.0

NOTES:

- You must download the version 1.1 firmware files to your server from the Paradyne web site before beginning the following procedures.
- The affected system will be down during the download.

To copy the upgrade files to your server, access <http://www.paradyne.com> and select *Service & Support* → *Firmware Files*. Download the appropriate versions for your environment from the Hotwire DSLAM Cards listing.

NOTE:

If any download procedure fails, the message **Transfer failed** appears on the screen but the values you entered for that download are saved. The cursor is returned to the first field of the download screen. Press Return at each field to accept the values and try the procedures again.

► Procedure 1 – Download to Service Node (SN) Ports

To download version 1.1 firmware to the service node from the MCC card:

1. Follow this menu selection sequence:

Configuration → *Card Status* → *Download Code* → *Download Code*
(A-A-G-A)

The Download Code screen appears and the **Download Type:** field is highlighted.

```
Download Code      <no name>      L:
-----
Download Type:    MCC
Immediate Apply:  no
Image File Name:
TFTP Server IP Address: 0.0.0.0
Start Transfer:   no

Packets Sent:    00000
Packets Received: 00000
Bytes Sent:      00000
Bytes Received:  00000

Transfer Status:

MCC, AN or SN:
Hotwire 8600: MCC: 8000: _ _ _ U
```

2. At the **MCC, AN or SN:** prompt, enter **SN** and press Return.
The **AN Card/slot #** field appears and is highlighted.
3. At the **AN Card/slot #:** prompt, enter the slot number of the access node card to which the SN is connected. Press Return.
The **SN Connected to Port #** field is highlighted.
4. At the **DSL Port #:** prompt, enter the port number for the desired SN and press Return.
The **Immediate Apply:** field is automatically set to yes and the **Image File Name:** field is highlighted.
5. At the **Enter File Name:** prompt, enter the complete path name for the Service Node upgrade file on your server and press Return.

NOTE:

You must have previously downloaded the software from the Paradyne web site to your server.

The **TFTP Server IP Address:** field is highlighted.

6. At the **Host/nnn.nnn.nnn.nnn:** prompt, enter the IP address of your server on which the SN upgrade file is stored and press Return.
The **Start Transfer:** field is highlighted.

7. At the **yes/no**: prompt, enter **yes** to begin the process.

Transfer in progress appears and the following fields begin to increment:

Packets Sent – Number of packets sent in download.

Packets Received – Number of packets received in download.

Bytes Sent – Number of bytes sent in download.

Bytes Received – Number of bytes received in download.

When the transfer completes, the Transfer Status field changes to **Completed successfully**. The SN resets and loses connectivity until the AN is upgraded.

NOTES:

- When an SN is upgraded, version 1.1 communication with *all* of its endpoints is enabled.
- As each service node port is upgraded, it temporarily loses connectivity until the Access Node is upgraded.

8. Repeat the procedures for each Service Node port.

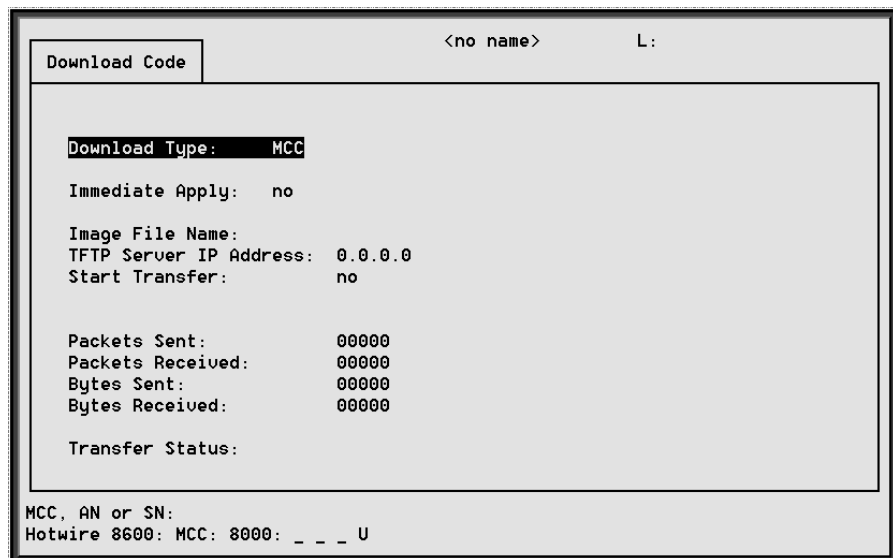
► **Procedure 2 – Download to the Access Node (AN) Card**

To download version 1.1 firmware to the access node using the MCC card:

1. Follow this menu selection sequence:

Configuration → *Card Status* → *Download Code* → *Download Code (A-A-G-A)*

The Download Code screen appears and the **Download Type**: field is highlighted.



-
2. At the **MCC, AN or SN:** prompt, enter **AN** and press Return.
The **AN Card/slot #** field appears and is highlighted.
 3. At the **AN Card/slot #:** prompt, enter the chassis slot number of the Access Node card to which the previously upgraded SN is connected. Press Return.
The **Immediate Apply:** field is highlighted.
 4. At the **yes/no:** prompt, enter **yes** and press Return.
The **Image File Name:** field is highlighted.
 5. At the **Enter File Name:** prompt, enter the complete path name for the Access Node upgrade file on your server and press Return.

NOTE:

You must have previously downloaded the software from the Paradyne web site to your server.

The **TFTP Server IP Address:** field is highlighted.

6. At the **Host/nnn.nnn.nnn.nnn:** prompt, enter the IP address of your server on which the AN upgrade file is stored and press Return.
The **Start Transfer:** field is highlighted.
7. At the **yes/no:** prompt, enter **yes** to begin the process.

Transfer in progress appears and the following fields begin to increment:

Packets Sent – Number of packets sent in download.

Packets Received – Number of packets received in download.

Bytes Sent – Number of bytes sent in download.

Bytes Received – Number of bytes received in download.

When the transfer completes, the Transfer Status field changes to **Completed successfully**. The card resets and Version 1.1 connectivity with the Service Node is established.

8. Repeat the procedures for all Service Nodes and Access Nodes in your DSLAM system.

If you cannot communicate with an SN after a complete MVL upgrade (i.e., SN and AN), there are 2 courses of action:

- Reinstall the 1.0 release on the AN and try the 1.1 download again, or
- If other SNs come up to the AN which has an SN failing to communicate, return the failed upgrade firmware.

► Procedure 3 – Download to MCC Card

To download version 1.1 firmware to the MCC:

1. From the MCC card, follow this menu selection sequence:

Configuration → *Card Status* → *Download Code* → *Download Code*
(A-A-G-A)

The Download Code screen appears and the **Download Type:** field is highlighted.

```
Download Code                               <no name>      L:
-----
Download Type:  MCC
Immediate Apply:  no
Image File Name:
TFTP Server IP Address:  0.0.0.0
Start Transfer:  no

Packets Sent:           00000
Packets Received:      00000
Bytes Sent:             00000
Bytes Received:        00000

Transfer Status:

MCC, AN or SN:
Hotwire 8600: MCC: 8000: _ _ _ U
```

2. At the **MCC, AN or SN:** prompt, enter **MCC** and press Return.
The **Immediate Apply:** field is highlighted.
3. At the **yes/no:** prompt, enter **yes** and press Return.
The **Image File Name:** field is highlighted.
4. At the **Enter File Name:** prompt, enter the complete path name for the MCC upgrade file on your server and press Return.

NOTE:

You must have previously downloaded the software from the Paradyne web site to your server.

The **TFTP Server IP Address:** field is highlighted.

5. At the **Host/nnn.nnn.nnn.nnn:** prompt, enter the IP address of your server on which the MCC upgrade file is stored and press Return.
The **Start Transfer:** field is highlighted.

6. At the **yes/no:** prompt, enter **yes** to begin the process.

Transfer in progress appears and the following fields begin to increment:

Packets Sent – Number of packets sent in download.

Packets Received – Number of packets received in download.

Bytes Sent – Number of bytes sent in download.

Bytes Received – Number of bytes received in download.

When the transfer completes, the Transfer Status field changes to **Completed successfully**. The card reboots.

You have successfully completed your upgrade to Version 1.1.

Upgrade Procedures from 8540/8546 DSL Cards

NOTES:

- You must download the version 1.1 firmware files to your server from the Paradyne web site before beginning the following procedures.
- The affected system will be down during the download.

To copy the upgrade files to your server, access <http://www.paradyne.com> and select *Service & Support* → *Firmware Files*. Download the appropriate versions for your environment from the Hotwire DSLAM Cards listing.

NOTE:

If any download procedure fails, the message **Transfer failed** appears on the screen but the values you entered for that download are saved. The cursor is returned to the first field of the download screen. Press Return at each field to accept the values and try the procedures again.

► Procedure 1 – Download to RTUs

To download version 1.1 firmware to the service node from the MCC card:

1. Follow this menu selection sequence:

Configuration → *Card Status* → *Download Code* → *Download Code (A-A-G-A)*

The Download Code screen appears and the **Download Type:** field is highlighted.

```
Complex MCC L:
Download Code
Download Type: RTU
DSL Card/Slot #: 4 RTU Connected to Port #: 1
Immediate Apply: yes

Image File Name: vfg
TFTP Server IP Address: 135.26.122.248
Start Transfer: no

Packets Sent: 00000
Packets Received: 00000
Bytes Sent: 00000
Bytes Received: 00000

Transfer Status:

MCC, DSL or RTU: 
Hotwire 8000: MCC: 8000: _ _ _ U
```

2. At the **MCC, DSL or RTU:** prompt, enter **RTU** and press Return.
The **DSL Card/slot #** field is highlighted.
3. At the **DSL Card/slot #:** prompt, enter the slot number of the DSL card to which the RTU is connected. Press Return.
The **RTU Connected to Port #** field is highlighted.
4. At the **DSL Port #:** prompt, enter the port number for the desired RTU and press Return.
The **Immediate Apply:** field is automatically set to yes and the **Image File Name:** field is highlighted.
5. At the **Enter File Name:** prompt, enter the complete path name for the RTU upgrade file on your server and press Return.

NOTE:

You must have previously downloaded the software from the Paradyne web site to your server.

The **TFTP Server IP Address:** field is highlighted.

6. At the **Host/nnn.nnn.nnn.nnn:** prompt, enter the IP address of your server on which the RTU upgrade file is stored and press Return.
The **Start Transfer:** field is highlighted.

7. At the **yes/no**: prompt, enter **yes** to begin the process.

Transfer in progress appears and the following fields begin to increment:

Packets Sent – Number of packets sent in download.

Packets Received – Number of packets received in download.

Bytes Sent – Number of bytes sent in download.

Bytes Received – Number of bytes received in download.

When the transfer completes, the Transfer Status field changes to **Completed successfully**.

NOTE:

As each RTU port is upgraded, it temporarily loses connectivity until the DSL card is upgraded.

8. Repeat the procedures for each port.

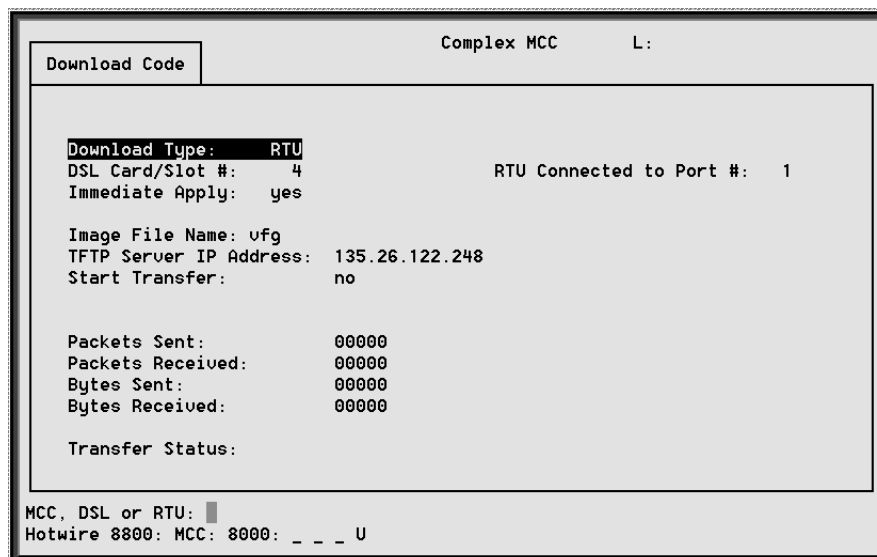
► **Procedure 2 – Download to the DSL Card**

To download version 1.1 firmware to the DSL card using the MCC card:

1. Follow this menu selection sequence:

Configuration → *Card Status* → *Download Code* → *Download Code (A-A-G-A)*

The Download Code screen appears and the **Download Type**: field is highlighted.



2. At the **MCC, DSL or RTU**: prompt, enter **DSL** and press Return.

The **DSL Card/slot #** field is highlighted.

-
3. At the **DSL Card/Slot #:** prompt, enter the chassis slot number of the DSL card to which the previously upgraded RTU is connected. Press Return.

The **Immediate Apply:** field is automatically set to yes and the **Image File Name:** field is highlighted.

4. At the **Enter File Name:** prompt, enter the complete path name for the DSL upgrade file on your server and press Return.

NOTE:

You must have previously downloaded the software from the Paradyne web site to your server.

The **TFTP Server IP Address:** field is highlighted.

5. At the **Host/nnn.nnn.nnn.nnn:** prompt, enter the IP address of your server on which the DSL upgrade file is stored and press Return.

The **Start Transfer:** field is highlighted.

6. At the **yes/no:** prompt, enter **yes** to begin the process.

Transfer in progress appears and the following fields begin to increment:

Packets Sent – Number of packets sent in download.

Packets Received – Number of packets received in download.

Bytes Sent – Number of bytes sent in download.

Bytes Received – Number of bytes received in download.

When the transfer completes, the Transfer Status field changes to **Completed successfully**. The card resets and Version 1.1 connectivity with the DSL card is established.

7. Repeat the procedures for all RTU ports and DSL cards in your DSLAM system.

► Procedure 3 – Download to MCC Card

To download version 1.1 firmware to the MCC:

1. From the MCC card, follow this menu selection sequence:

Configuration → *Card Status* → *Download Code* → *Download Code*
(A-A-G-A)

The Download Code screen appears and the **Download Type:** field is highlighted.

```
Complex MCC L:
Download Code

Download Type: RTU
DSL Card/Slot #: 4 RTU Connected to Port #: 1
Immediate Apply: yes

Image File Name: vfg
TFTP Server IP Address: 135.26.122.248
Start Transfer: no

Packets Sent: 00000
Packets Received: 00000
Bytes Sent: 00000
Bytes Received: 00000

Transfer Status:

MCC, DSL or RTU: █
Hotwire 8800: MCC: 8000: _ _ _ U
```

2. At the **MCC, DSL or RTU:** prompt, enter **MCC** and press Return.
The **Immediate Apply:** field is highlighted.
3. At the **yes/no:** prompt, enter **yes** and press Return.
The **Image File Name:** field is highlighted.
4. At the **Enter File Name:** prompt, enter the complete path name for the MCC upgrade file on your server and press Return.

NOTE:

You must have previously downloaded the software from the Paradyne web site to your server.

The **TFTP Server IP Address:** field is highlighted.

5. At the **Host/nnn.nnn.nnn.nnn:** prompt, enter the IP address of your server on which the MCC upgrade file is stored and press Return.
The **Start Transfer:** field is highlighted.

6. At the **yes/no:** prompt, enter **yes** to begin the process.

Transfer in progress appears and the following fields begin to increment:

Packets Sent – Number of packets sent in download.

Packets Received – Number of packets received in download.

Bytes Sent – Number of bytes sent in download.

Bytes Received – Number of bytes received in download.

When the transfer completes, the Transfer Status field changes to **Completed successfully**. The card reboots.

You have successfully completed your upgrade to Version 1.1.

Optional VLAN Tagging

Virtual LANs (VLANs) are Layer 2 logical subnetworks that overlay the physical network and allow devices to communicate as if they were physically linked. VLANs allow connectivity between end users or between end-user systems and network devices regardless of the physical LAN segments to which they are attached. Traffic on this Ethernet link is tagged with the ID number of a physical LAN.

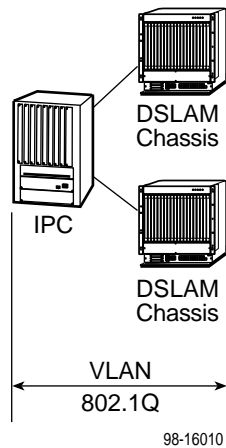
Traffic between VLANs does not intermix, i.e., VLAN traffic is only sent to segments that are members of the VLAN.

In the Hotwire Access Network, VLANs are set up between the Access Node (AN) and the Feeder Node (the Interworking Packet Concentrator or IPC) in accordance with IEEE Standard 802.1Q. The DSLAM Access Node and Feeder Node provide security and separation of traffic. An end-user system and its Network Service Provider belong to the same VLAN, though the VLAN is transparent to both.

The Access Node allows you to select either VLAN tagged *or* untagged mode. The VLAN option (tagged) transmits Ethernet frames with IEEE 802.1Q MAC encapsulation. Non-VLAN mode (untagged) supports 802.3 Ethernet V2 Encapsulation.

NOTE:

The system default is untagged mode. In untagged mode, all 4 DSL ports are connected to the same ISP.



In untagged mode, a VLAN-compatible IPC is not required. Mux Forwarding, IP Scoping, and IP filtering have the same functionality as in tagged mode. See the table below.

Selected Mode	Frame Type	VLAN-compatible IPC Required?	Bridging Mode		
			MUX Fwd	IP Scoping	IP Filtering
Tagged	802.1Q MAC Encapsulation	yes	yes (default: yes)	yes (default: yes)	yes (default: no)
Untagged	802.3 Ethernet V2 Encapsulation	no	yes (default: yes)	yes (default: yes)	yes (default: no)

NOTES:

- Changes made in one mode remain in place when you switch to the other mode. For instance, if you have established VLANs in tagged mode, and then switch to untagged mode and make a change (e.g., to the client IP address), that change remains when you switch back to tagged mode.
- After switching to or from VLAN tagged mode, the AN must be reset for the change to take effect.

CAUTION:

If you have configured the maximum number of 16 VLANs in tagged mode, use extreme care when adding clients in untagged mode. When you switch back to tagged mode, the clients you added are not available. Refer to information in the syslog file (B-A-A).

If you have the same IP address assigned to two different VLANs in tagged mode, the IP address will only display once when you switch to untagged mode. Refer to information in the syslog file (B-A-A).

Switching To and From VLAN Tagged Mode

NOTE:

The following procedure describes how to switch the DSLAM to/from tagged mode. To utilize VLAN tagging, you must first have followed the detailed procedures for establishing VLANs. Refer to Chapter 3, *Data Domains* in the *Hotwire DSLAM for 8310 MVL and 8510 DSL Cards Network Configuration Guide*.

► Procedure

To switch a VLAN on the DSLAM Access Node:

1. Select the desired DSL card at the Card Selection screen.
2. Follow this menu selection sequence:
Configuration → Bridge → General (A-E-A)
3. Move to the **VLAN Tagging:** field.
4. At the **Enabled/Disabled:** prompt, enter **d** to disable VLAN tagging, or **e** to enable VLAN tagging. Press Return.
5. Enter Ctrl-z.
The **Configuration has been modified. Save (yes/no)?** prompt appears.
6. Enter **y** and press Return to save the changes.

Reset the card to enable the changes.

CAP Release

Features provided by the latest CAP release (3.0) include:

- Upstream 25 kHz filters (optional)
- Selection of long interleaving at 136 kbps downstream rates
- New downstream speed of 136 kbps/8ER

Branding – Layer 3 to Layer 2 Migration

Branding is a method of marking hardware platforms and software loads to ensure that compatible software is loaded. For example, an 8546 or 8540 card can become an 8510. The MCC card can be upgraded provided the hardware supports the firmware. The upgrades are made using system's Download Code function.

Branding allows the firmware of a card to be changed as shown in the table below.

Model Number	To/From Model Number
8546 DSL card	8510 DSL card
8540 DSL card	8510 DSL card
8540 DSL card	8546 DSL card
MCC IP Complex	MCC IP Conservative
5446* RTU	5620 RTU
* You must upgrade your 5446 firmware to version R2.02.07 or higher before you can migrate to the 5620. If you do not, unexpected errors will occur.	

There are no restrictions on the number of upgrades, i.e., you can upgrade any number of cards with one copy of the new firmware.

You must upgrade your firmware to version 1.1 before migrating to other cards. If you do not, the following error messages can occur:

Wrong HW Platform – You have attempted to download MCC firmware to a DSL card (or vice versa).

Wrong FW Brand (old) – You have not upgraded your firmware to version 1.1.

Traps

The IP source address contained in trap messages is always the address of the MCC card. The MCC sends the trap to the management system destinations configured on the MCC and uses its own IP address in the source field. The trap identifies both the DSLAM slot and the DSL card port. This value is based on the ifIndex schema (overloaded ifindex) that uses slot numbers 1,000 to 20,000 for slots 1 to 20 and adds the interface number 0 for the card, 1 to 999 for an interface.

The following traps in the HotxDSL MIB are not applicable: 4, 104, 8, 9, 10, 11, 12, 13, 14, and 15.

See Appendix F, *Traps*, in the *Management Communications Controller (MCC) Card, IP Conservative, Users Guide*.

The trap message appears on your NMS screen in a manner similar to the following:

Severity	Date/Time	Source	Message
Minor	July 14 0700	135.28.144.75	Paradyne: xDSL Margin Low Interface 1003

Source is the IP address of the MCC card, and, under **Message**, 1003 is the DSL card in slot 1, port 3.

Multiple Default Routes

Version 1.1 allows you to define numerous default routes for the MCC. The default routes act as alternatives to the established default route. This feature provides redundancy if your primary router goes down. You assign a preference number (1–255; default 50) to each route: the lower the number the higher the preference. If the primary default route becomes inoperable, the DSLAM automatically switches to the next route with the highest priority.

The Static Routes screen allows you to add or delete routes. You can add up to 32 static routes.

► Procedure

To define alternate default routes and their preference:

1. Select the MCC card at the Card Selection screen.
2. Follow this menu selection sequence:
Configuration → *IP Router* → *Static Routes (A-E-A)*
The Static Routes screen appears.
3. Enter an item number or type **0** (zero) at the **Item Number (0 to add new record):** prompt.
4. Do one of the following at the **Destination (or space to delete route):** prompt.
 - Type the host or network address (in *nnn.nnn.nnn.nnn* format) to add an entry.
 - Type spaces to delete an entry.

NOTE:

This field is read-only for dynamic routes.

5. Type the desired value in the following fields and press Return:

Field	Description	Input
Subnet Mask	The associated subnet mask for the specified destination IP address.	<i>nnn.nnn.nnn.nnn</i> format
Next Hop	The next-hop address for the specified destination IP address.	<i>nnn.nnn.nnn.nnn</i> format
Pref	The preference of one route over another route if both go to the same destination.	1–255 The lower the number, the more preferable the route. Default is 50.
S/D	Whether the IP address of the packet is source or destination.	Source or Destination
PA	Whether the router answers ARP requests intended for another machine. Non-selectable if source is selected in the s/D field.	y (yes) or n (no)

When all entries are made, the **save changes** field is highlighted and the **yes/no:** prompt appears. Type the desired response.

6. Press Ctrl-z to return to the IP Router menu.

Setting the Default Entry Timeout

In version 1.1, the ARP Parameters screen contains a new field: **Default Route Entry Timeout (minutes)**. The time set in this field is the time that a default route entry remains in the ARP table. If the entry is in the table for this number of minutes without being referenced, an ARP request is sent to the next hop router. If no response is received, the entry is removed from the ARP table. The range for this parameter is 1 to 20 minutes, the default is 1 minute.

The ARP Parameters screen contains three fields. When defining these entries, it is recommended that you use the following values:

- The **Complete Entry Timeout (minutes)** field should be greater than the **Incomplete Entry Timeout (minutes)** field,
- The **Incomplete Entry Timeout (minutes)** field should be much greater than the **Default Route Entry Timeout (minutes)** field.

► Procedure

To define the default route entry timeout:

1. Select the MCC card at the Card Selection screen.
2. Follow this menu selection sequence:
Configuration → *IP Router* → *ARP* → *Parameters (A-E-D-A)*
The ARP Parameters screen appears.
3. Move the highlight to the **Default Route Entry Time (minutes)** field.
4. At the **Input Number:** prompt, enter the number of minutes you want the entry to remain in the table and press Return.
5. Enter Ctrl-z.
The **Configuration has been modified. Save (yes/no)?** prompt appears.
6. Enter **y** and press Return to save the changes.
You have defined the timeout for the default route entry.

Screen Changes

The Time/Date Screen, *Configuration* → *Card Status* → *Time/Date (A-A-C)* from the MCC card, has a new field: **Timezone**. The field defines the time zone used for the local time/date, e.g. eastern daylight time. Two help screens list the acceptable entries for the field.



8000-A2-GK47-00