

User's Guide

Madge Device Managers

Acknowledgments

Madge, the Madge Logo, Collage, Smart DeskStream, SmartCAU, SmartCAU Plus, SmartRAM, SmartRAM Plus, SmartLAM, SmartLAM Plus, Smart Ringbridge, Smart Ringswitch, Smart Ringswitch Plus, Smart Ringswitch Express, and TrueView/32 *Enterprise* are trademarks, and in some jurisdictions may be registered trademarks, of Madge Networks or its affiliated companies. Other trademarks appearing in this document are the property of their respective owners.

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Before you start

About this guide

This guide describes how to use Madge device management applications. Madge device management applications enable you to set up and troubleshoot the following Madge hubs, bridges, and switches:

- Smart DeskStream Token Ring Switch
- SmartCAU Plus
- SmartRAM STP and SmartRAM Plus UTP
- SmartLAM STP and SmartLAM Plus UTP
- Smart Ringbridge
- Smart Ringswitch family
- Collage 250/280
- Collage 540
- Collage 740/750

Associated manuals

If you have installed the TrueView network management platform, refer to the *TrueView Network Management Platform User's Guide*. The TrueView platform is a Windows-based network management platform from which you can run individual device management applications. It also includes a range of other network management tools and features.

Audience

This guide is for network administrators. It assumes you are familiar with:

- The technology appropriate to the network objects you plan to manage
- Your computer's operating system.

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About Madge device managers

Device managers are a modular series of ‘plug-in’ software applications that enable you to manage particular types of object that are attached to the network.

Madge provides device managers for the following platforms:

- Windows 95, Windows 98, and Windows NT
- HP OpenView for Windows NT
- HP OpenView for Solaris
- HP OpenView for HP-UX
- Tivoli NetView for AIX

Madge device management applications

Madge device management applications enable you to configure, control, and monitor devices in the Madge family of hubs, bridges and switches.

DeskStream Manager

DeskStream Manager enables you to manage Smart DeskStreams on your network. The Smart DeskStream is a self-configuring (Plug ‘n’ Play) workgroup switch, but the DeskStream Manager allows you to give it a custom configuration, make use of its security and troubleshooting features, and monitor its frame forwarding activity.

CAU/RAM Manager

CAU/RAM Manager enables you to manage the following intelligent wiring concentrators:

- Madge SmartCAU™ Plus
- Madge SmartRAM™
- IBM 8230 Token Ring Controlled Access Unit (CAU), via NT and MSDLC only. Note that this applies only to the first two versions of the CAU, not version three or later.
- Madge 8- Station Ringhub, when attached to a CAU.

You can manage Madge SmartLAM™, IBM, Raylan Lobe Attachment Modules (LAMs) and Multi Access Units (MAUs) that are attached to manageable wiring concentrators.

Bridge Manager

Bridge Manager enables you to manage adapter- based bridges, such as the Madge Smart Ringbridge.

Ringswitch Manager

Ringswitch Manager enables you to manage the Madge Smart Ringswitch family of Token Ring switches.

Collage Managers

Madge Collage device management applications enable you to monitor and control devices in the Madge Collage family of Asynchronous Transfer Mode (ATM) network switches, and enable you to apply general management tools to provide a comprehensive set of management features.

- Collage 700 Manager, which enables you to manage the Collage 740 Backbone ATM Switch and the Collage 750 Backbone ATM Switch.
- Collage 280 Manager, which enables you to manage the Collage 250 Workgroup ATM Switch and the Collage 280 Workgroup ATM Switch.
- Collage 540 Manager, which enables you to manage the Collage 540 Token Ring to ATM Access Switch.

Managing devices

The device management applications enable you to access devices via the network map provided by your management platform. For example, you can use Ringswitch Manager to work with a Smart Ringswitch that appears in the management platform's network map.

Using management applications to work with devices

When you have added devices to the database, you can work with the devices that are represented by icons in the network map. Alternatively, you can double-click on a device that appears in the table that the management application maintains.

The way you manage a device is determined by the management platform you use.

TrueView applications for Windows

To work with a device under TrueView, perform either of the following:

- In the main TrueView Discovery window, double-click on the icon that represents the device. The associated management application runs, and if it can communicate with the device it enables you to perform management tasks.
- In the main TrueView Discovery window, select the Table option from the TrueView menu for the device you want to manage, then double-click the table entry for that device:
 - To see the Table of CAUs and RAMs, select *Token Ring* -> *CAU* -> *Table*.
 - To see the Table of Bridges, select *Token Ring* -> *Bridge* -> *Table*.
 - To see the Table of DeskStreams, select *DeskStream* -> *Table*.
 - To see the Table of Ringswitches, select *Ringswitch* -> *Table*.
 - To see the Table of Collage 540, 700, or 280 switches, select *Collage* -> *540* or *700* or *280* -> *Table*.
 - To see the Table of Token Rings available for management, select *Plus* -> *Ring* -> *Table*.

Integrating TrueView/32 Enterprise with HP OpenView NNM 5.x and 6.x under Windows NT

TrueView/32 *Enterprise* is an HP OpenView Certified Application, and Madge is listed as an HP Solution Partner.

When you install TrueView/32 *Enterprise* onto a Windows NT station, the installation software automatically detects whether you have HP OpenView NNM installed. If you have, it prompts you to specify whether you want to use the Madge TrueView Network Management Platform or the OpenView NNM platform to run the device managers from. If you choose the OpenView NNM platform, the installation process installs the Madge device managers so that each symbol for a Madge device in the OpenView NNM map clearly identifies a Madge device on the network. (OpenView NNM uses its IP discovery process to detect the devices on your network.)

The installation process also installs the MIB and trap files into the OpenView NNM database. (The trap files contain information that enables you to interpret traps correctly.)

When the installation is complete, you can manage a device. To do this:

- Double-click its icon within the network map view, or
- Right-click over its icon in the network map view, select Madge from the pop-up menu, and select the appropriate manager for the type of device you want to manage, or
- Select Madge from the Tools menu, then select the appropriate manager for the type of device you want to manage.

When you run a device manager, it displays a picture of the device's front panel on your screen. Use the mouse to select a configurable item on the front panel (for example, a port), then click the right-mouse button to see the configuration and management menu options for that item. Select the option you want to use.

To see a table of all Madge devices of a particular type on your network, select Madge from the Tools menu, then select the device type (for example, Ringswitch), and finally select Table.

Integrating TrueView/32 *Enterprise* with HP OpenView NNM 5.x and 6.x under HP-UX and Solaris

TrueView/32 *Enterprise* is an HP OpenView Certified Application, and Madge is listed as an HP OpenView Solutions Partner.

TrueView/32 *Enterprise* for Unix supports HP OpenView NNM on Solaris.

The Madge CD inlay provides instructions for installing the device managers into HP OpenView NNM. The installation process installs the Madge device managers so that each symbol for a Madge device in the OpenView NNM map clearly identifies a Madge device on the network. (OpenView NNM uses its IP discovery process to detect the devices on your network.)

The installation process also installs the MIB and trap files into the OpenView NNM database. (The trap files contain information that enables you to interpret traps correctly.)

When the installation is complete, you can manage a device. To do this:

- Double-click its icon within the network map view, or
- Right-click over its icon in the network map view, select Madge from the pop-up menu, and select the appropriate manager for the type of device you want to manage, or
- Select Madge from the Tools menu, then select the appropriate manager for the type of device you want to manage.

When you run a device manager, it displays a picture of the device's front panel on your screen. Use the mouse to select a configurable item on the front panel (for example, a port), then click the right-mouse button to see the configuration and management menu options for that item. Select the option you want to use.

To see a table of all Madge devices of a particular type on your network, select Madge from the Tools menu, then select the device type (for example, Ringswitch), and finally select Table.

Integrating TrueView/32 Enterprise with Tivoli TME 10 NetView v5.0 and 5.1 under AIX

The Madge CD inlay provides instructions for installing the device managers into NetView. The installation process installs the Madge device managers so that each symbol for a Madge device in the NetView map clearly identifies a Madge device on the network. (NetView uses its IP discovery process to detect the devices on your network.)

The installation process also installs the MIB and trap files into the NetView database. (The trap files contain information that enables you to interpret traps correctly.)

When the installation is complete, you can manage a device. To do this:

- Double-click its icon within the network map view, or
- Right-click over its icon in the network map view, select Madge from the pop-up menu, and select the appropriate manager for the type of device you want to manage, or
- Select Madge from the Tools menu, then select the appropriate manager for the type of device you want to manage.

When you run a device manager, it displays a picture of the device's front panel on your screen. Use the mouse to select a configurable item on the front panel (for example, a port), then click the right-mouse button to see the configuration and management menu options for that item. Select the option you want to use.

To see a table of all Madge devices of a particular type on your network, select Madge from the Tools menu, then select the device type (for example, Ringswitch), and finally select Table.

Viewing a device



When you start up the device manager for a particular device, Madge device management applications display a picture of the device; this picture is updated at regular intervals while the management connection remains active. The picture represents the ports and indicators as they appear on the actual device. To access information about the device, click on the toolbar buttons or the hotspot areas on the picture. For more information about using hotspots, see “Using hotspots”.

Using hotspots

Madge device management applications enable you to access management features via hotspots on the picture of the device. When you move the pointer over an area, the cursor changes to indicate that you can click on the hotspot.

The cursors that the management applications use are shown in the following table.

Table 1.1 Hotspot cursors

| Cursor | Function |
|---|---|
|  | When you move the pointer over a port, the cursor changes to a menu cursor. If the port is a Token Ring port, the number of the port is also displayed. Right-click on the port to access port-related commands on a pop-up menu. |
|  | When you move the pointer over a source of information, such as an optional card or module, you can access information by clicking on the hotspot. |

Getting help

The TrueView platform and management applications are provided with comprehensive online manuals and context-sensitive help. Under Windows-based platforms, help is provided in Windows Help format and can be read by the `winhelp.exe/winhelp32.exe` engines that are provided with Windows 95/98 and Windows NT. On UNIX platforms, help is provided by a proprietary hypertext engine.

Viewing tooltips

All device managers' main dialog boxes contain a toolbar that enables you to work with the contents of the window or related management tasks. To quickly find out the purpose of buttons on a toolbar, hold the pointer over the button for a second or more. TrueView displays a popup window, or tooltip, that describes the effect of clicking on the button. The toolbar buttons and associated tasks are described in greater detail in the online help.

On Unix applications, you must right-click on the toolbar buttons to display the tooltip.

Accessing online help

To access online help from any window, click on the **Help** button. For most windows and dialog boxes, the online help provides a picture of the screen that contains hotspots with further information about each feature.

Obtaining support

If you are unable to find information in the online help or the manuals provided with the software, refer to the Appendix, "Technical support services".

Using CAU/RAM Manager

CAU/RAM Manager is a network management application that enables you to manage:

- Madge SmartCAU Plus
- IBM CAUs, such as the IBM 8230 Token-Ring Network Controlled Access Unit, via NT and MSDLC only. Note that this applies only to the first two versions of the CAU, not version three or later.
- Madge SmartRAM STP and SmartRAM Plus UTP.

You can also manage the attachment modules described below, when they are connected to a wiring concentrator that can be managed by CAU/RAM Manager.

- Madge SmartLAM STP and SmartLAM Plus UTP
- IBM LAMs, such as the IBM 8230 Token-Ring Network Controlled Access Unit Lobe Attachment Module
- Raylan LAMs
- Multistation Access Units (MAUs), such as the Madge 8-Station Ringhub.

CAU/RAM Manager enables you to:

- View information about all the CAUs devices in the database
- Configure ports on device
- View and configure fault information
- View and configure security information
- Download microcode
- Monitor the traffic

Getting started

To view a CAU/RAM and the Expansion Units attached, either double-click on the icon representing the device or double-click on the entry for the device in the CAU/RAM Table.

Understanding icons

The appearance of the icon may vary under different network management platforms.

Madge SmartCAU Plus and SmartRAM

Under Windows you can manage the Madge SmartCAU Plus using the HLM or the SNMP management protocol over either IPX or IP. Under Unix, you can only manage the device using SNMP over IP.

You can manage the Madge SmartRAM and control its Token Ring ports in the same way that you would manage ports on an Expansion Unit.

IBM CAUs

You can only use TrueView CAU Manager to manage IBM CAUs (for example, the IBM 8230 Token-Ring Network Controlled Access Unit) over the HLM management protocol. Also, if you want to do this, you must have Windows NT installed on your management station, and you must have an MSDLC interface installed.

Expansion Units

You can manage the Madge SmartLAMs, IBM LAMs and Raylan LAMs. In each case, the Expansion Unit must be attached to a Madge SmartCAU Plus, Madge SmartRAM, or to an IBM CAU that can be managed by CAU/RAM Manager.

CAU/RAM Manager enables you to identify nodes that are connected to ports on the Expansion Unit, and to enable or disable the ports. By setting up the CAU Options dialog box, you can specify that Expansion Unit ports are labelled with the address of the node that is attached to the port. By managing the CAU to which the Expansion Unit is attached, you can also enable or disable the Expansion Unit.

Depending on your network management platform, you may be able to determine the number of Expansion Units that are attached to a CAU from the device's icon. Alternatively, you can find out what types of Expansion Unit are attached to the device from the CAU/RAM table.

Multistation Access Units

You can manage Multistation Access Units (MAUs) such as the Madge 8-Station Ringhub. The MAU must be attached to a Madge SmartCAU Plus, SmartRAM, or to an IBM CAU that can be managed by CAU/RAM Manager. You can find out whether MAUs are attached to the device in the CAU/RAM table.



Note: When the device starts up, it checks for nodes that are inserted by means of a MAU that is connected to the device. You can configure the device to store information about the MAUs that are connected. This means that the device keeps a record of the existence of the MAU, even if no nodes are inserted or the MAU is disconnected.

You can wrap the MAU to isolate it from the network. You can also identify nodes that are connected to ports on the MAU.

Managing devices

To manage a CAU/RAM, double-click on either the icon corresponding to the device, or an entry in the CAU/RAM Table. The CAU/RAM dialog box represents the front panel of the actual device. The picture indicates the ports on the device, and the ports that are in use.

When you select a switch, CAU/RAM Manager polls the device for information and updates the dialog boxes at regular intervals.

Note: The CAU/RAM dialog box does not indicate whether a device is connected to the Serial port or the Monitor port, or whether STP or UTP cable is connected to a Token Ring port. If a port is connected, it always appears to be connected by the DB9 (STP) connector.

The management features that you can use depend on whether you have established a link to the device that you are managing. If you do not establish a link to the device, you can still view information about the device. However, you cannot change information, enable or disable ports, implement security features, or download code.

Information on managing CAUs is available in the online help or the software user guide provided with the device.

Using Bridge Manager

Bridge Manager is a network management application that enables you to manage the Madge Smart Ringbridge.

Bridge Manager enables you to:

- View information about all the bridge devices in the database.
- Configure bridge ports.
- Configure source routing, IPX routing and Spanning Tree parameters.
- Configure frame filtering information.
- Download a user-defined filter program.
- Download microcode to a Ringbridge.
- Monitor the traffic that the bridge is forwarding.

Getting started

If you are running TrueView from a Windows station, Bridge Manager uses the LANMAN protocol to communicate with a bridge you want to manage.

If you are running the Bridge Manager from a Unix station, it uses the Simple Network Management Protocol (SNMP) over IP. The Smart Ringbridge supports industry-standard Management Information Bases (MIBs).



Note: If you specify a password for a bridge control link, set the SNMP community string to match the password before setting any variables. If you have not specified a password, or are only reading MIB variables, the community string is not important.

The Smart Ringbridge supports SNMP over IP. If you are using SNMP, you do not have to configure the Ringbridge. However, if you are using SNMP over IP, give the Ringbridge an IP address and subnet mask. You can use Bridge Manager to specify an IP address.

The Ringbridge supports the standard bridge MIB, which is supplied as RFC1286.TXT. The Ringbridge also supports MIB-II (RFC 1213). For information about how SNMP management applications access MIBs, refer to the manuals supplied with the SNMP management application.

Understanding Icons

To view a bridge, either double-click on the icon representing the bridge or double-click on the entry for the bridge in the Bridge Table.

The appearance of the icon may vary under different network management platforms.

Managing bridges

To manage a bridge, double-click on either the icon corresponding to the device, or an entry in the Bridge Table. The Bridge dialog box represents the front panel of the actual device. The picture indicates the ports on the bridge, and the ports that are in use.

When you select a bridge, Bridge Manager polls the device for information and updates the dialog boxes at regular intervals.

The dialog box displayed will show the type of cable connected to each port, and the status of the LEDs and the Liquid Crystal Display (LCD) as they appear on the device.

Linking to a bridge

The Smart Ringbridge provides four management links. To manage a bridge, you need to link to the device using the password. Only the control link allows you to configure the bridge, enable and disable ports or download microcode to the device.

In some network management platforms, the color of the icon that represents the bridge shows whether you are linked to the device. When you link to a bridge using link 1, 2 or 3, you can only view information about the bridge. You must establish a control link to configure the device, enable and disable ports or download microcode to the device.



Note: When you set up Bridge Manager, in the Bridge Options dialog box you can specify that Bridge Manager tries to link to all bridges in the database, define the type of link that it uses, and set the maximum number of bridge links.

Using Ringswitch Manager

Ringswitch Manager is a device management application that enables you to manage the Smart Ringswitch family of Token Ring switches.

The Smart Ringswitch incorporates a range of advanced management functions that provide management and control over the device and the switched Token Ring environment. Ringswitch Manager is designed to enable administrator access to all the management functions provided by the switch.

Ringswitch Manager enables you to:

- Manage the Ringswitch, ports, and forwarding
- View the status of LEDs, and change the LCD display on the Ringswitch.
- Monitor traffic and view statistical counters
- Erase or download boot code and run-time microcode
- Configure Active Broadcast Control features
- Configure Remote Monitoring (RMON) support
To use the RMON agent, you must obtain a Remote Monitoring (RMON) Agent Software License (part number: 84-27) from Madge Networks.
- Manage virtual LANs to define a logical network structure that is independent of the actual layout, and control the forwarding of broadcast packets.

Getting started

Ringswitch Manager provides an easy-to-use graphical interface that enables you to discover, configure, and maintain the switch entirely from the management station.

To configure the Ringswitch to suit the requirements of your network, we recommend that you connect the Ringswitch to the network and use Ringswitch Manager. If you cannot connect to the network with the default configuration, use the command-line interface to perform the minimum number of configuration tasks that will enable you to connect the Ringswitch to a device on the network.

If you are using Windows, the Ringswitch Manager supports SNMP over both IP and IPX. If you are using Unix, the Ringswitch Manager only supports SNMP over IP.

For information about managing the switch, refer to the online help or software user guide that is provided with the switch.

Understanding icons

The icon representing the Smart Ringswitch contains information about the type of Switch Module and whether an uplink module such as an ATM Module is installed. The appearance of icons may vary depending on your network management platform.

Managing the switch

To manage a Ringswitch, double-click on either the icon corresponding to the device, or an entry in the Ringswitch Table. The Ringswitch dialog box represents the front panel of the actual device. The picture indicates the ports on the switch, and the ports that are in use.



Note: The Ringswitch dialog box does not indicate whether a device is connected to the Serial port or the Monitor port, or whether STP or UTP cable is connected to a Token Ring port. If a port is connected, it always appears to be connected by the DB9 (STP) connector.

Using DeskStream Manager

DeskStream Manager is a device management application that enables you to manage the Smart DeskStream Token Ring Switch. It enables you to:

- Download new microcode to a DeskStream
- Monitor network activity on a stand-alone or stacked DeskStream
- Inspect or modify the configuration of ports and uplink ports on a DeskStream
- Specify up to five pairs of SNMP Community Strings (passwords) to enable different groups of TrueView users to manage a particular DeskStream
- Perform advanced configuration of a DeskStream's frame forwarding processes
- Configure Remote Monitoring (RMON) support

For information about how to perform these tasks using the DeskStream Manager, refer to the on-line help that is available when you run the application.

Getting started

DeskStream Manager provides an easy-to-use graphical interface that enables you to discover, configure, and maintain the switch entirely from the management station.

If you are using Windows, the DeskStream Manager supports SNMP over both IP and IPX. If you are using Unix, the DeskStream Manager only supports SNMP over IP.

The DeskStream is designed to be self-configuring, but there are configuration tasks you may want to perform. These are described in the on-line help that is provided with the DeskStream Manager.

To view the contents of the on-line help, click the Help button in any window of the DeskStream Manager, then click the Contents button.

Understanding icons

The appearance of icons may vary depending on the network management platform you are using.

Managing the switch

To manage a DeskStream, double-click on either the icon corresponding to the device, or an entry in the DeskStream Table. The DeskStream dialog box represents the front panel of the device you are managing. It indicates which ports in the switch are in use, and, if you have any uplink modules installed, it displays these to the right of the front panel (you can toggle the display of the uplink ports by using the uplink icon on the toolbar).

Using Collage 700 Manager

Collage 700 Manager is a network management application that enables you to manage the Collage 740 Backbone ATM Switch and the Collage 750 Backbone ATM Switch using the Simple Network Management Protocol (SNMP).



Note: On an IP network, use the serial interface to specify an IP address for a Collage 740/750 to enable Collage 700 Manager to communicate with the device. Once you can manage the device with Collage 700 Manager, you can change the IP address from the management station. For more information about attaching to the serial interface, refer to the installation guide provided with the switch.

Collage 700 Manager enables you to:

- Manage the Collage 740/750 switches attached to the network
- Manage the ports on installed option cards
- Manage routing for the switch
- View physical information about the switch
- Monitor traffic on the option cards
- Manage LAN Emulation (LANE) software components for the switch
- Manage broadcast traffic on an ELAN
- Reset the Collage 740/750
- Erase the current database configuration and flash memory banks
- Download microcode to the switch

Getting started

The Collage 700 table provides information about all the Collage 740s and Collage 750s in the Collage 700 database. The Collage 700 table displays a row or table entry for each Collage 740/750 in the Collage 700 database.

To view a Collage 740/750, either double-click on the icon representing the device or double-click on the entry for the device in the Collage 700 Table.

Understanding icons

The appearance of the switch icons may vary under different network management platforms. The Collage 740/750 supports SNMP over IP only.

Managing the Collage 740/750

Collage 700 Manager enables you to configure information about the Collage 740/750, the installed option cards, the ports on the option cards, and LANE services in the Collage switch. The management features that you can use depend on whether or not you have entered the correct write password for the Collage 740/750 that you are managing. If you do not enter the correct write password, you can view information about the switch but you cannot change information, enable or disable ports, implement security features, or download code to the switch.

To manage a switch, double-click on either the icon corresponding to the device, or an entry in the Collage 700 Table. The Collage 740/750 dialog box represents the front panel of the actual device. The picture indicates the ports on the switch, and the ports that are in use.

When you select a switch, Collage 700 Manager polls the device for information and updates the dialog boxes at regular intervals.

Using Collage 540 Manager

Collage 540 Manager is a network management application that enables you to monitor and control the Collage 540 Token Ring to ATM Access Switch.

Collage 540 Manager enables you to:

- Manage the Collage 540 switch attached to the network
- Manage the Token Ring ports and the ATM ports
- View physical information
- View traffic on the Token Ring ports
- Manage LAN Emulation (LANE) software components for the device
- Reset the device
- Erase the current database configuration and flash memory banks
- Download microcode to the Collage 540

Getting started

The Collage 540 table provides information about all the Collage 540s in the Collage 540 database. The Collage 540 table displays a row or table entry for each Collage 540 you are managing.

Understanding icons

The appearance of the switch icons may vary under different network management platforms.

Under Windows, the Collage 540 supports SNMP over both IP and IPX. Under Unix, it supports only SNMP over IP.

Adding devices to the Collage 540 Manager database

Collage 540 Manager maintains a database of the Collage 540 devices that are on the network. Collage 540 Manager can automatically discover all Collage 540 devices that are on IP and IPX networks and add them to the database, or you can disable the autodiscovery feature and add devices manually. By default, the autodiscovery feature is enabled.

On pure IP networks, use the serial interface to provide the Collage 540 with an IP address so you can manage it. For information, refer to the Collage 540 Installation and User Guide (part number: 100-201).

Managing the Collage 540

Collage 540 Manager enables you to set up the switch, the Token Ring ports, the ATM port, and the LAN emulation software. You can also view information about the fan speed, temperature, power supply, and network traffic.

When you select a Collage 540, Collage 540 Manager polls the device for information and updates the dialog boxes at regular intervals.



Note: To configure any parameters for the Collage 540, you must establish a management link to the device. If you do not have a management link to the Collage 540 and you try to set up the switch, an error message is displayed.

Viewing the Collage 540

To manage a switch, double-click on either the icon corresponding to the device, or an entry in the Collage 540 Table. The Collage 540 dialog box represents the front panel of the actual device. The picture indicates the ports on the switch, and the ports that are in use.

When you select a switch, Collage 540 Manager polls the device for information and updates the dialog boxes at regular intervals.

Using Collage 250/280 Manager

Collage 250/280 Manager is a network-management application that enables you to manage the Collage 250 and 280 Workgroup ATM switches.

Collage 250/280 Manager enables you to:

- Manage the Collage 250/280 switches attached to the network
- Managing the ports
- Manage Ethernet and ATM switching
- Manage routing for the switch
- Manage LAN Emulation (LANE) software components for the switch
- Access information about ATM connections
- Monitor traffic on the switch
- Reset the device
- Download microcode to the switch

Getting started

The Collage 250/280 table provides information about all the Collage 250/280 devices in the Collage 250/280 database. The Collage 250/280 table displays a row or table entry for each Collage 250/280 in the database.

Understanding icons

The appearance of the switch icons may vary under different network management platforms.

The Collage 250/280 supports SNMP over IP.

Managing the Collage 250/280

To manage a switch, double-click on either the icon corresponding to the device, or an entry in the Collage 250/280 Table. The Collage 250/280 dialog box represents the front panel of the actual device. The picture indicates the ports on the switch, and the ports that are in use.

When you select a switch, Collage 280 Manager polls the device for information and updates the dialog boxes at regular intervals.

Managing Ethernet switching



Note: This section only refers to the Collage 280. The Collage 250 does not support Ethernet switching.

The Collage 280 supports full-duplex Ethernet on any Ethernet port. Full-duplex Ethernet ports must be attached to other devices that also support full-duplex Ethernet, such as another Collage 280, a third-party Ethernet switch, or a full-duplex Ethernet adapter card.

The Collage 280 supports a total of 1023 statistically assigned and/or learned MAC addresses. There are no restrictions regarding the distribution of these MAC addresses across the Ethernet ports on the Collage 280. For pure Ethernet switching, this limits the number (to 1023) of attached Ethernet end-stations that can be supported through direct connections or through connected bridges, hubs, and other Ethernet switches.

Managing ATM switching

When an ATM155 Option Module is installed in option slot 1 or option slot 2, Collage 280 Manager automatically detects it. Depending on the option slot that is used, Collage 280 Manager decides how to display information about the ATM155 port. If the Option Module is installed in option slot 1, Collage 280 Manager identifies the ATM155 port as port 13. If the Option Module is installed in option slot 2, Collage 280 Manager identifies the ATM155 port as port 15.

You can view information about an installed ATM Option Module in the Option Setup dialog box. You can also configure certain parameters for the option module in this dialog box.

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