
Meridian Administration Tools

MAT Maintenance Windows

User Guide

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Maintenance Windows

The Meridian 1 switch has over 600 overlay-based maintenance commands and over 200 types of circuit cards to support its powerful capabilities. To maintain a Meridian 1, you must remember (or look up) which overlay has the appropriate commands and the syntax of each command—an enormous task!

Welcome to MAT Maintenance Windows. The 37 Maintenance Overlays are grouped into eight hardware-related windows to allow you to perform all maintenance tasks without having to remember or look up any overlay-based commands. The new interface provides a comprehensive view of Meridian 1 hardware configuration with the following benefits:

- see quickly the equipped hardware. The hardware list works like a spreadsheet data view—you can scroll through the list, sort the list, and select items for changing.
- select an item from the list and apply a Maintenance command from the right-mouse button popup menu
- print the list or copy it to a spreadsheet
- select a TN or DN and print the TN/DN block
- see Enabled/Disabled status in *real time*

For example, to disable a network loop, you click on the loop number and choose the **Disable** command from the menu. Maintenance Windows loads the appropriate overlay, executes the command, and displays the result of the action in a window that you can scroll and save.

This chapter of the *Maintenance Windows User's Guide* describes functions that are common to all of the Maintenance window applications. Be sure to read this section thoroughly to help you use these applications efficiently.

About this user guide

This user guide is intended to provide you with an introduction to the MAT Maintenance Windows application as well as an overview of its major functions.

Conventions used in this user guide

This user guide uses the following terms:

- *Computer system* refers to the hardware and software of an IBM-PC™ or 100% compatible PC.
- *Windows* refers to the Microsoft family of graphical user interface (GUI)-based operating systems.
- *Mouse* refers to any standard PC pointing device. Common mouse actions include *point*, *click*, *right-click* and *double-click*.
- Standard Windows terminology includes: *icon*, *window*, *dialog box* (or *dialog*) and *menu*.
- Angle brackets denote a single keyboard key. For example, <Esc> denotes the Escape key, labeled Esc on PC keyboards. Angle brackets with multiple keys denote keyboard keys to use simultaneously. For example, <Ctrl-Alt-Del> denotes the key sequence for rebooting a PC.
- **This font** is used to designate buttons, menu choices and information you are to enter.

Help

This user guide does not discuss each Maintenance Windows function and command in detail. It only discusses the major functions and how they are accessed. For detailed information on each Maintenance Windows function, use the on-line Help function. You can use the Help function to obtain help for topics either directly or via its index and word-search functions. While running Maintenance Windows, you can obtain context-sensitive help on any topic you require by simply clicking **Help** from a specific dialog or window.

To obtain help for a topic, click **Help** from the currently selected dialog or window. This will access the Windows Help function and display context sensitive help information on the current topic.

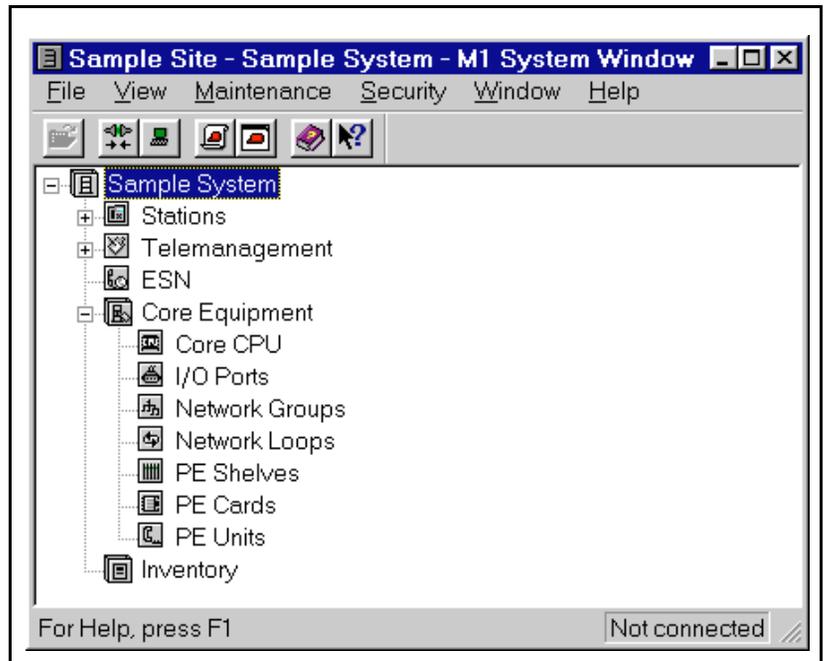
Once you have accessed Help, use it to scroll through the other Maintenance Windows help topics, search for a specific topic or print the help information.

To view a list of Help topics for Maintenance Windows, click **Contents** from the Help drop-down menu. Choose from one of the items in this list to load the Help file and display its information.

Launching a Maintenance Windows application

You launch Maintenance Windows applications from the MAT System window. Figure 1 below shows the MAT System window.

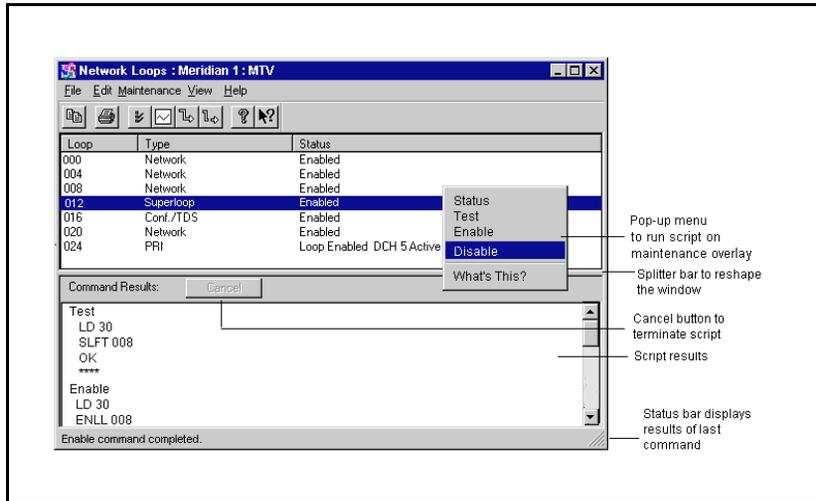
Figure 1
MAT System window



Under **Core Equipment**, double-click the icon for the desired Maintenance Windows application to launch that application. The appropriate window appears. Each application is described in detail in a separate chapter in this document.

For example, double-click on the **Network Loops** icon to open the Network Loops window (see Figure 2). Each loop is listed, along with descriptive information. From this window, you can sort this information, select a loop and run maintenance commands, and get help on the selected loop.

Figure 2
Network Loops window



Maintenance Windows applications

MAT Maintenance Windows includes the following applications:

Core CPU

The CPU window displays the status of cards in both CPU shelves on the Meridian 1 at the selected site. You can perform actions and tasks on cards in the CPU shelf from the CPU window.

I/O Ports

The I/O (Input/Output) Ports window displays the status of all I/O ports on the Meridian 1, and allows you to execute actions and tasks on a selected port.

Network Groups

The Network Groups window displays the status of all Network Group Cards on the Meridian 1, and allows you to execute actions and tasks on a selected card.

Network Loops

The Network Loops window lists all the network loops on the Meridian 1 system. It allows you to execute actions and tasks on a selected loop by choosing commands from the Maintenance menu.

PE Shelves

The PE Shelves window displays the status of the Peripheral Controller Cards for each PE Shelf on the Meridian 1, and allows you to execute actions and tasks on a selected card.

PE Cards

The PE Cards window displays the status of all EPE and IPE Peripheral Equipment cards for each PE Shelf on the Meridian 1, and allows you to execute actions and tasks on a selected card.

PE Units

The PE Units window displays information for all PE units and Directory Numbers on the Meridian 1 system, and allows you to execute actions and tasks on a selected unit.

B- and D-channels

The PRI/PRI2 B and D-channels window displays the B and D-channels on the selected digital trunk (for example, PRI loop), and allows you to execute actions and tasks on a selected channel.

Option 11C Line Size Expansion

The Option 11C Line Size Expansion increases the Option 11C line capacity from the current three expansion cabinet configuration to a maximum of five expansion cabinets. Along with this expansion, the Option 11C will support an additional 20 IPE cards.

Option 11C Mini

The Option 11C Mini affords full Meridian 1 feature functionality to the 20 to 80 line PBX customer. The three mounting options, wall, rack, and table top, are fully MAT and X11 system software compatible. There is an option for an expansion cabinet which supports an additional four peripheral slots. MAT recognizes this system type as an Option 11C in the Navigator and System Properties windows.

Inventory Reporting

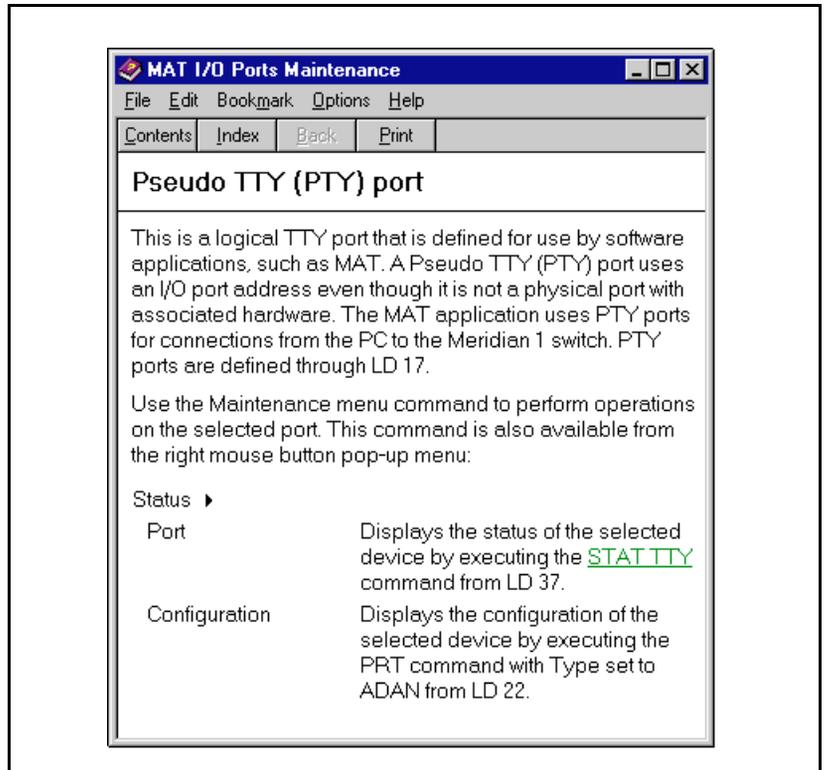
The Inventory Reporting window allows you to generate and download inventory files listing cards and sets installed in the Meridian 1.

Full documentation in on-line help

Each Maintenance Windows application has been designed to be fully documented in the on-line help. Each menu command, button, and field is documented. Please be sure to consult the on-line help if you wish to get more detail about any of these items.

For help on an object in a list, select the item and use the right mouse button to select **What's This** help. Descriptive information on the item appears. For example, ask for help on a TTY object and the window shown in Figure 3 appears.

Figure 3
“What’s This” help on PTY



Performing a maintenance task on an item

To perform a maintenance task on a card, loop, shelf, and so on, follow these steps:

- 1 Open the appropriate Maintenance Windows application.
- 2 Select the item from the list.
- 3 Choose a command from the **Maintenance** menu, the toolbar, or by using the right mouse button popup menu. A confirmation dialog appears for potentially destructive commands.
- 4 The script appears in the command result section of the window, followed by the overlay output.

Meridian 1 connection

Maintenance window applications are connected to the Meridian 1 by a Pseudo TTY (PTY). A PTY is a “software only” TTY that uses an I/O port address. PTYs are displayed in the I/O Ports window.

- One PTY is used for all Maintenance Windows users connected to the system (even from multiple PCs)
- One PTY is used for each System Terminal connection even if it is not logged into the overlays

Queueing scripts

If the Meridian 1 is currently processing another user’s script, your command is placed in a queue. You must wait until your script is finished processing before you can choose another **Maintenance** menu command. However, while you are waiting, you can perform maintenance tasks on another type of system component using a different Maintenance Windows application.

Cancelling scripts

To remove a command from the queue or to cancel a command in progress, click **Cancel**. Pressing the **<Esc>** key will also remove or cancel a command. If a command is in progress, **Cancel** aborts the current command and overlay by sending four stars (****).

Refreshing the hardware status in the list

The hardware status in the list is updated as follows:

- The list is updated every few seconds even if there is no activity on the MAT PC. You specify the interval on a per-window basis. See the **About Maintenance Windows** item in the **Help** menu.
- The selected object status is updated at every MAT PC after every script. Thus, disabling a port from one PC updates its status on all other PCs.
- The entire list is updated after some scripts because multiple objects are affected. Examples: Split CPU, Disable MSDL
- You can manually refresh the hardware status display by pressing **<F5>**.

Menu commands

Each menu command is fully documented in on-line help. The Status Bar provides useful information on the script to run (see “Using the Status Bar” on page 23).

You can also read **What’s This** help on any menu command. Press **<Shift><F1>** (or select **What’s This** from the **Help** menu) and select the command for full on-line documentation.

The **Maintenance** menu is unique for each hardware application, and is also designed to be fully documented in on-line help. In addition to the information provided in the Status Bar, you can read **What’s This** help on any menu command as described above.

Getting help on an error message

Sometimes, a maintenance command will result in a Meridian 1 error message, such as NWS010. To get help on the last error message (even if it has scrolled out of view) choose **Error Message** from the **Help** menu.

To get help on a previously-displayed error message:

- Use the scroll bar to move to the error message. Double-click the error message.
or
- Select the error and choose **Error Message** from the **Help** menu.
or
- Press **<Ctrl>E** for information on the last error message.

Getting around in the maintenance window

You can use the maintenance window in the following ways:

Customizing the window and columns

- Resize the window and columns using standard Windows 95 controls.
- Use the horizontal or vertical scroll bars to move around in the alarm display.
- An ellipsis (...) after column text indicates there is more information than will fit in the column. You can resize the column by dragging the column divider to make more room for text.
- A splitter bar divides the window into two display areas. Drag the splitter bar to change the sizes of the card list and command results display areas.

Sorting the list

By default, items are listed in an order optimized for that application. You can sort the list according to another column by clicking in that column heading. Click to sort in ascending order (an “up” arrow appears in the heading); click again for descending order (“down” arrow).

Note: For help on the definition of any column in the list, click **What’s This** in the **Help** menu, and then click the column title.

Using shortcuts

The application provides convenient keyboard equivalents for many menu selections. You can perform the following common tasks by typing the accelerator keys:

- **<Ctrl>R (Status)**—Displays detailed status information for the selected hardware device
- **<Ctrl>T (Test)**—Performs predefined tests on the selected hardware device
- **<Ctrl>W (Enable)**—Restores the selected hardware device to service
- **<Ctrl>D (Disable)**—Removes the selected hardware device from service

Using the Toolbar

The Toolbar gives you quick access to selected commands. Each button is documented in the on-line help (see Figure 4).

Figure 4
CPU toolbar



Using the Status Bar

To display or hide the Status Bar located at the bottom of the window, use the **Status Bar** command in the **View** menu.

The Status Bar describes actions of the menu commands as you use the mouse to navigate through menus. When you select a **Maintenance** menu item, the status bar displays the following:

- The type of object selected
- The first overlay command in the script

When you run a **Maintenance** menu command, the Status Bar describes the progress of the command while it executes. For example, the Status Bar shows “Enable command in progress” when you choose an **Enable** command.

The Status Bar also displays the actions of the Toolbar buttons as you move the pointer over them.

Printing

You can print Maintenance Windows information by selecting the lines to print in the list or the command results area (or the entire section), and selecting **Print** from the **File** menu. Select **Print to File** in the Print dialog to export the data for use in a spreadsheet or other application.

Supported Systems

Maintenance Windows is only supported on the MAT Release 5 and higher, and on Meridian 1 systems with X11 Release 22 or later and the MAT Management Interface package (296).

The following Meridian 1 systems are supported:

- Option 11C
- Option 51C
- Option 61C
- Option 81
- Option 81C

It also supports the Option 11C Compact beginning with X27 Release 1.

Feature Limitations

- Not all hardware maintenance commands are supported. See the tables in each Maintenance Window application chapter for the list of supported hardware and commands.
- Only one user can access a maintenance overlay at a time (this is an existing limitation of the overlays). Commands issued from a Maintenance window will be queued if:
 - A TTY user has loaded a maintenance overlay.
 - Another Maintenance window (same or different user) is running a script that uses the same maintenance overlay.
 - Only one command can be issued from a Maintenance window at a time (that is, you must wait until the first command is completed before issuing another).

- One Pseudo TTY port is required for Maintenance Windows (regardless of the number of windows and logged-in users). Each instance of the System Terminal window (active or inactive) requires an additional Pseudo TTY port. This is in addition to the PPP/ethernet ports required for the basic MAT PC connection.
- Maintenance window menus are not context sensitive to the maintenance state of the selected Meridian 1 object. For example, the enable command will not be grayed out if the object is already enabled. You will get the same response as entering the enable command in the overlay (usually an error message stating that the card is already enabled).

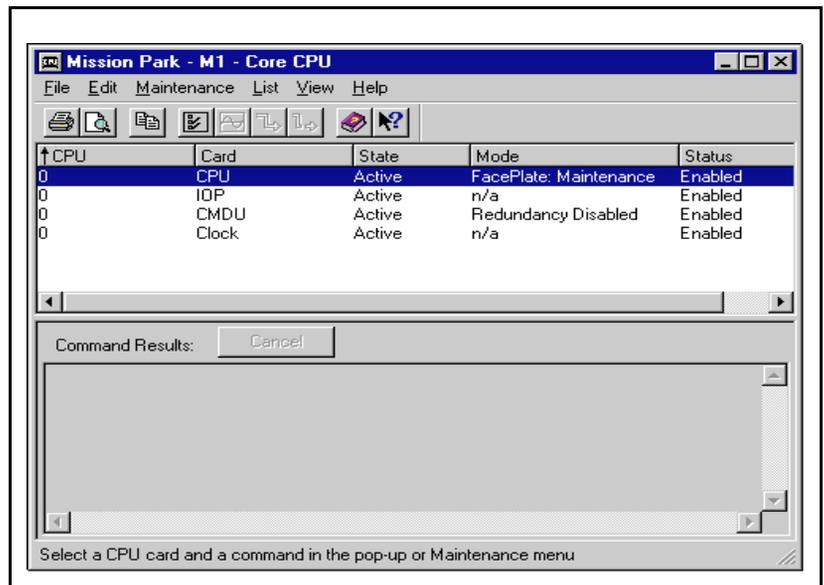
Core CPU window

The Core CPU window displays the status of cards in the CPU shelves on the selected Meridian 1 system.

Launching Core CPU

From the System window, under **Core Equipment**, double-click **Core CPU** icon—the Core CPU window appears as shown in Figure 5.

Figure 5
CPU window



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

Core CPU column descriptions

The Core CPU window provides columns of information about each card installed in the shelf. The Core CPU list is initially sorted by CPU number (there may be one or two CPU shelves, depending on the hardware type). Table 1 describes each column.

Table 1
Core CPU window column descriptions

| Column | Description |
|--------|--|
| CPU | Shelf number associated with the card |
| Card | CPU card type; the following types are listed: Core Processing Unit (CPU) cards Core Multi-Disk Unit (CMDU) cards Input/Output Processor (IOP) cards Clock Controller (Clock) cards Fiber cards (Option 11C only) |
| State | A card can be in an active or standby state |
| Mode | Mode applies only to CPU and CMDU cards: CPU cards may be in split or shadowed mode. The faceplate may be in Normal or Maintenance mode. CMDU cards may be in Redundancy enabled or Redundancy disabled mode. |
| Status | Current status of the card. For a more detailed status report, use the Status command in the Maintenance menu. |

Supported Core CPU commands

Table 2 lists the hardware and commands supported. Use System Terminal for hardware or commands not supported by the Core CPU window.

Table 2
Supported Core CPU Commands

| Hardware | Supported | Commands supported |
|---------------------------------|-----------|---|
| CP cards | yes | all, except split and shadow CPU commands |
| I/O Processor (IOP) cards | yes | all except disable IOP and Ethernet commands (User will lose connection to M1.) |
| Core Multi-Disk Units (CMDU) | yes | all |
| Clock Controller | yes | all |
| Fiber Optical Link (Option 11C) | yes | all, includes cabinet enable/disable commands |

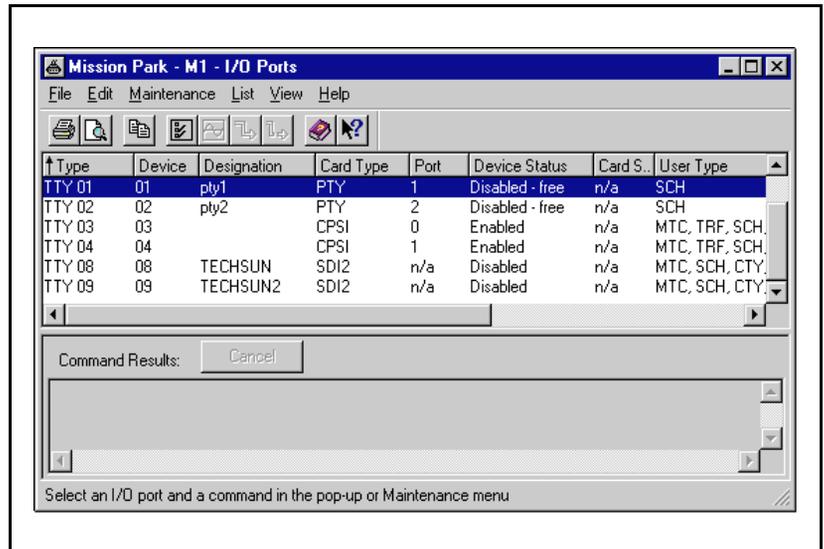
I/O Ports window

The I/O (Input/Output) Ports window displays the status of all I/O ports on the Meridian 1.

Launching I/O Ports

From the System window, under **Core Equipment**, double-click the **I/O Ports** icon. The I/O Ports window appears as shown in Figure 6.

Figure 6
I/O Ports window



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

I/O Ports column definitions

The I/O Ports window provides columns of information about each port in the system. The I/O Ports list is initially sorted by port type and number. Table 3 describes each column.

Table 3
Column descriptions (Part 1 of 3)

| Column Name | Description |
|--------------------|---|
| Type | Type and number of I/O port: <ul style="list-style-type: none">— Teletype (TTY)— Printer (PRT)— Application Module Link (AML)— D-Channels— Intercept Computer Update Link (ICP)— Ethernet Local Area Network (ELAN)— Single Terminal Access (STA)— D-channel Digital Signaling Link (DDSL)— Low Speed Signaling Link (LSSL) |
| Device | Physical address of the card or port. |

Table 3
Column descriptions (Part 2 of 3)

| Column Name | Description |
|--------------------|--|
| Designation | Port name. |
| Card Type | Card containing the I/O port: <ul style="list-style-type: none">— Serial Data Interface Card (SDI)— Enhanced Serial Data Interface Card (ESDI)— D-channel Interface Card (DCHI)— Multi-purpose Serial Data Link Card (MSDL) |
| Port | Port number on the card. |
| Device Status | Current maintenance status of the port. |
| Card Status | Current maintenance status of the card. Applies only to MSDL Cards. |

Table 3
Column descriptions (Part 3 of 3)

| Column Name | Description |
|-------------|--|
| User Type | <p>Indicates current port usage.</p> <ul style="list-style-type: none"> — ACD: Automatic Call Distribution printer — APL: Auxiliary Processor Link — ICP: Intercept Computer Update Link — LSL: Low-speed AUX link — HSL: High-speed AUX link — XSM: System monitor — BGD: Background terminal — CTY: Call Detail Recording (CDR) TTY for CDR records — PMS: Property Management System Interface (PMS) — BUG: BUG messages included on port — CSC: Automatic Set Relocation and Attendant Administration messages (CSC) included on port — FIL: Output filtered messages included on port — MCT: Malicious Call Trace messages included on port — MTC: AUD, BUG, and ERR messages included on port — NOO: No overlay allowed on port — SCH: Service Change or any database change included on port — TRF: Traffic reports included on port |

Supported I/O Ports commands

Table 4 lists the supported I/O Ports hardware and commands. Use System Terminal for hardware or commands not supported by the I/O Ports window.

Table 4
Supported I/O Ports Commands (Part 1 of 2)

| Hardware | Supported | Commands supported |
|--|-----------|-------------------------------------|
| TTY port on SDI/MSDL card | yes | all except test command |
| XSM (System Monitor) on SDI/MSDL card | yes | all |
| PRT - Printer port on SDI/MSDL card | yes | all except test command |
| PTY - Pseudo TTY port | yes | all |
| AML - (Application Module Link) on an ESDI/MSDL card | yes | all except message monitor commands |
| ACD High Speed Port on SDI/MSDL card | yes | all except message monitor commands |

Table 4
Supported I/O Ports Commands (Part 2 of 2)

| Hardware | Supported | Commands supported |
|--|-----------|---|
| ACD Low Speed Port on SDI card | yes | all except message monitor commands |
| Auxiliary Processor Links on any SDI/MSDL card | yes | all except message monitor commands |
| Intercept Computer Update ports (ICP) on any SDI/MSDL card | yes | all except ICP application commands |
| D-channel on an MSDL/DCHI card | yes | all except message monitor commands |
| Single Terminal Access port | yes | all |
| MSDL card | yes | all except download version x of software |
| ACD Low Speed Link for Option 11C | yes | all |
| ICCM ELAN for ICCM | yes | all |
| DPNSS DDSL (D-channel) | yes | all |
| APNSS LSSL (D-channel) | yes | all |

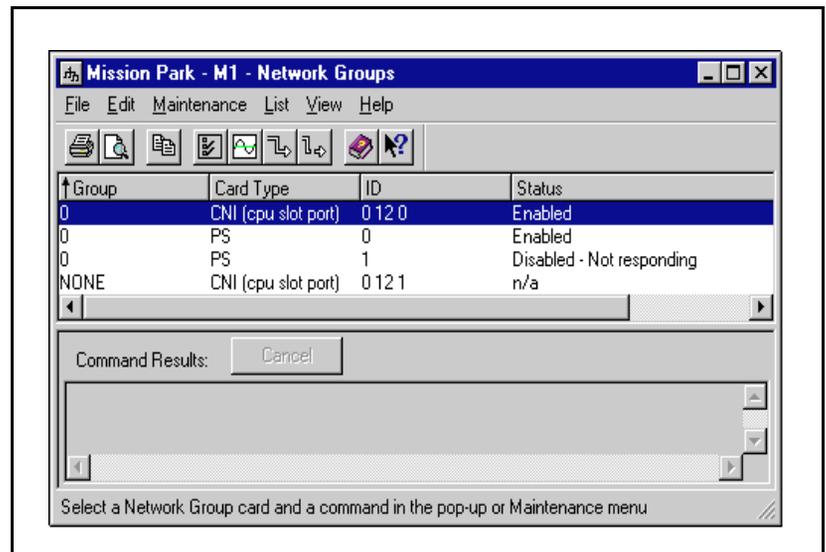
Network Groups window

The Network Groups window displays the status of all Network Group cards on the Meridian 1.

Launching Network Groups

From the System window, under **Core Equipment**, double-click the **Network Groups** icon. The Network Groups window appears as shown in Figure 7.

Figure 7
Network Groups window



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

Network Groups column definitions

The Network Groups window provides columns of information about each port in the system. The Network Groups list is initially sorted by Group number. Table 5 describes each column.

Table 5
Column Descriptions

| Column Name | Description |
|--------------------|--|
| Group | Network group identification number. |
| Card Type | Each network group can include the following cards: <ul style="list-style-type: none">— Core to Network Interface cards (2 cards)— Peripheral Signaling cards (2 cards)— InterGroup Switch cards (4 cards) |
| ID | Card identification number. ID for CNI cards include the CPU number, slot number, and the port number. |
| Status | Current status of the card. For a more detailed status report, use the Status command on the Maintenance menu. |

Supported Network Groups commands

Table 6 lists the supported hardware and commands. Use System Terminal for hardware or commands not supported by the Network Groups application.

Table 6
Supported Network Groups commands

| Hardware | Supported | Commands supported |
|--------------------------------------|------------------|---------------------------|
| Core to Network Interface (CNI) card | yes | all |
| Peripheral Signalling card | yes | all |
| InterGroup Switch card | yes | all |

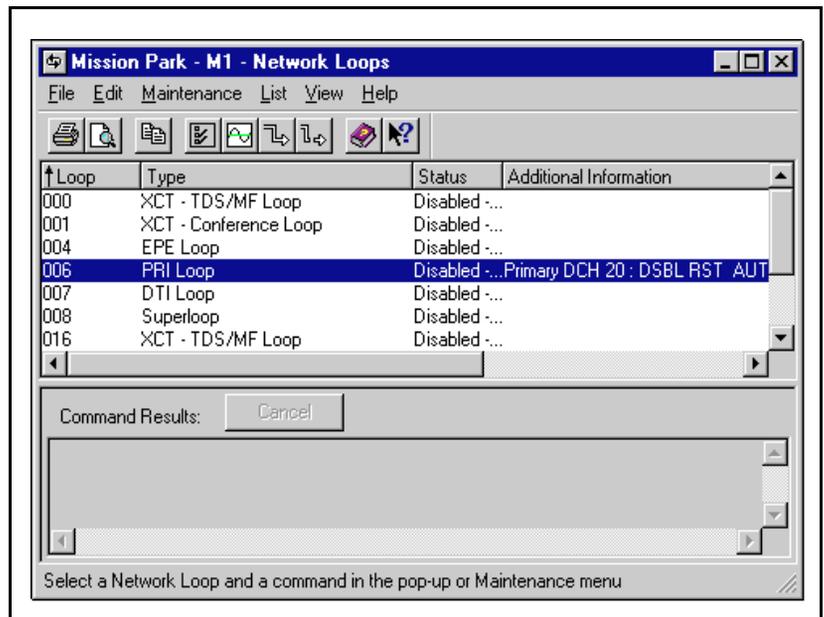
Network Loops window

The Network Loops window lists all the network loops on the Meridian 1 system.

Launching Network Loops

From the System window, under **Core Equipment**, double-click the **Network Loops** icon. The Network Loops window appears as shown in Figure 8.

Figure 8
Network Loops window



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

Network Loops column descriptions

The Network Loops window provides columns of information about each loop in the system. The Network Loops list is initially sorted by Loop number. Table 7 describes each column.

Table 7
Network Loops window column descriptions

| Column | Description |
|--|---|
| Loop | Loop number.* |
| Type | Type of Loop |
| Status | Current status of the card. For a more detailed status report, use the Status command in the Maintenance menu. |
| Additional Information | <p>Applies only to PRI/PRI2 and International RPE loops:</p> <ul style="list-style-type: none"> • For PRI/PRI2 loops, displays the application status, link status, and designation for the Primary and Backup D-channels (DCH). • For 2.0 mb/s RPE loops, displays the RPE group number. |
| <i>Note:</i> *Loop is replaced by slot for Option 11C. | |

Supported Network Loop commands

Table 8 lists the supported hardware and commands. Use System Terminal for hardware or commands not supported by the Network Loops window.

Table 8
Network Loops (Part 1 of 2)

| Hardware | Supported | Commands supported |
|--|------------------|--|
| Enhanced PE (EPE) Network Loop card | yes | all except test timeslot and LD45 XCON commands |
| Superloop cards | yes | all except LD 45 XCON commands and enable/disable background continuity tests. |
| Digital Trunk Interface (DTI/DTI2) cards | yes | all |
| Primary Rate Interface (PRI/PRI2) cards | yes | all |

Table 8
Network Loops (Part 2 of 2)

| Hardware | Supported | Commands supported |
|--|-----------|--|
| Remote Peripheral Equipment (1.5 and 2.0 Mb/s) cards | yes | all |
| Meridian ISDN Signaling Processor (MISP) cards | yes | all except application download commands and Meridian Packet Handler commands |
| DPNSS/DASS2 cards | yes | all |
| APNSS cards | yes | all |
| Conference cards | yes | all |
| Tone and Digit Switch cards | yes | all |
| Conf/TDS cards | yes | all |
| Fiber Remote (FNET) card | yes | all |
| Multifrequency Sender cards | yes | all |
| Phantom loops | yes | None. There are no overlay commands for these loops. Phantom loops do appear in the list of loops. |

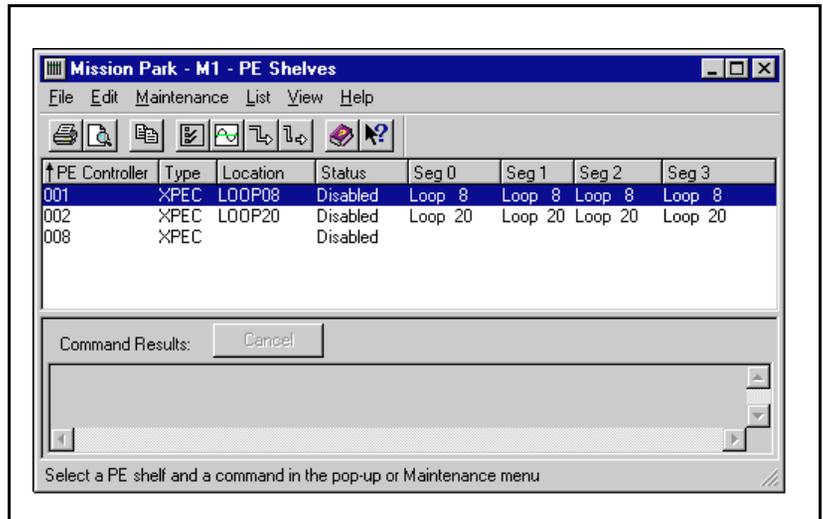
PE Shelves window

The PE Shelves window displays the status of the Peripheral Controller Cards for each PE Shelf on the Meridian 1.

Launching PE Shelves

From the System window, under **Core Equipment**, double-click the **PE Shelves** icon. The PE Shelves window appears as shown in Figure 9.

Figure 9
PE Shelves window



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

PE Shelves column definitions

The PE Shelves window provides columns of information about each shelf in the system. The PE Shelves list is initially sorted by Controller card number. Table 9 describes each column.

Table 9
Column Descriptions

| Column Name | Description |
|----------------|--|
| PE Controller | Identification number associated with the PE Controller Card. |
| Type | Type of controller card. |
| Location | Location of the PE shelf containing the PE Controller Card. |
| Status | Current status of the PE Controller Card. |
| Seg 0 to Seg 3 | Identifies the loop supported by each of the four PE shelf segments. |

Supported PE Shelves commands

Table 10 lists the supported hardware and commands. Use System Terminal for hardware or commands not supported by the PE Shelves window.

Table 10
Supported PE Shelves commands

| Hardware | Supported | Commands supported |
|------------------------------------|-----------|--------------------|
| Peripheral Controller (XPEC) cards | yes | all |
| Fiber Remote (CARR) | yes | all |
| Fiber Remote (FPEC) | yes | all |

PE Cards window

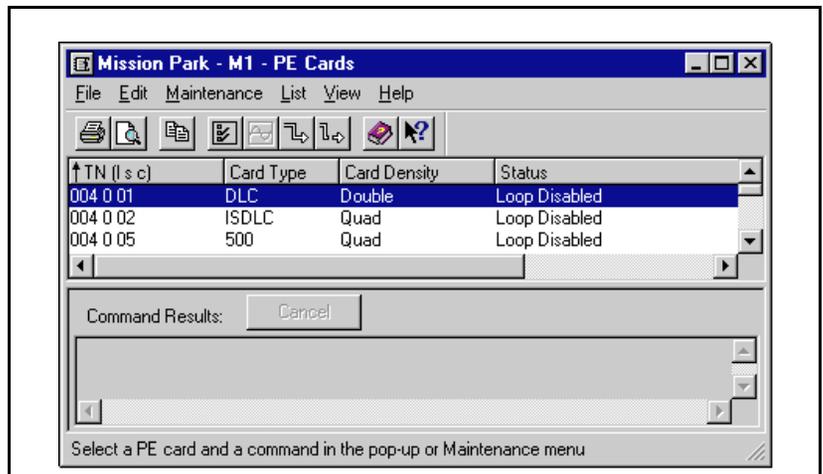
The PE Cards window displays the status of the all Peripheral Equipment Cards for each PE Shelf on the Meridian 1.

Note: The MGate card cannot be configured through MAT. It can be manually configured in Overlay 11.

Launching PE Cards

From the System window, under **Core Equipment**, double-click the **PE Cards** icon. The PE Cards window appears as shown in Figure 10.

Figure 10
PE Cards window



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

PE Cards column definitions

The PE Cards window provides columns of information about each card in the system. The PE Cards list is initially sorted by TN. Table 11 describes each column.

Table 11
Column Descriptions

| Column Name | Description |
|--------------------------------------|--|
| Terminal Number (loop shelf card) | Address of the card. <i>Note:</i> TN is replaced with Slot for Option 11C. Tone Service in slot 0 is for DTR/XTD units 0-7, and DTR/XTD/MFC or MFR units 8-15. The individual units are displayed in the PE Units window. |
| Card Type | The internal value and type of the various loops, as well as the name presented to the user. There are two types of line and trunks, one for EPE loops and one for Superloops. Superloops have density of octal. |
| Card Density | Density of the card (this can differ from loop density). — Single — Double — Quad — Octal |
| Status | Current status of the PE Card. The status is a text string up to 10 characters. This is the same text as output by the overlays. |

Supported PE Cards commands

Table 12 lists the supported hardware and commands. Use System Terminal for hardware or commands not supported by the PE Cards window.

Table 12
Supported PE Cards commands

| Hardware | Supported | Commands supported |
|--|-----------|--------------------|
| IPE/EPE Line cards | yes | all |
| ISDLG cards | yes | all |
| IPE/EPE Trunk cards | yes | all |
| BRI Line cards | yes | all |
| BRI Signaling Processor (BRSC) cards | yes | all |
| Digitone Receivers (DTR) | yes | all |
| Multifrequency Receivers (DTR) | yes | all |
| Tone Detector cards | yes | all |
| Extended Tone Detector (XTD) cards | yes | all |
| Multifrequency Signaling (MFC/MFE/MFVE/MFK5/MFK6) cards | yes | all |
| Mobility | | |
| — EIMC | yes | none |
| — MXC | yes | none |
| <p><i>Note:</i> These cards appear in the list of cards. However, all maintenance commands for them can only be accessed using the Mobility application.</p> | | |

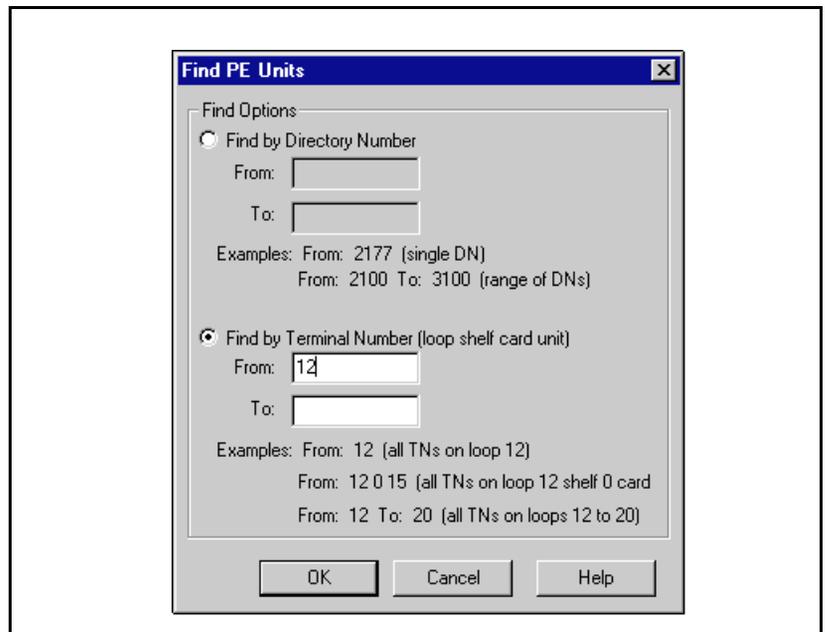
PE Units window

The PE Units window displays information for selected PE units and Directory Numbers on the Meridian 1 system.

Launching PE Units

From the System window, under **Core Equipment**, double-click the **PE Units** icon. The **Find PE Units** dialog box (Figure 11) appears to allow you to select a range of DNs or TNs. This helps you avoid uploading thousands of items.

Figure 11
Find PE Units dialog



You can view both TNs and DNs in the PE Units window.

- Viewing by TN is more useful than **print TNB**
- Viewing by DN is more useful than **print DNB**

Make a selection of DN or TN, select a range, and click **OK**. The PE Units window appears as shown in Figure 12 or Figure 13 (depending on whether you selected TN or DN in the **Find** dialog box).

Figure 12
PE Units window (by TN)

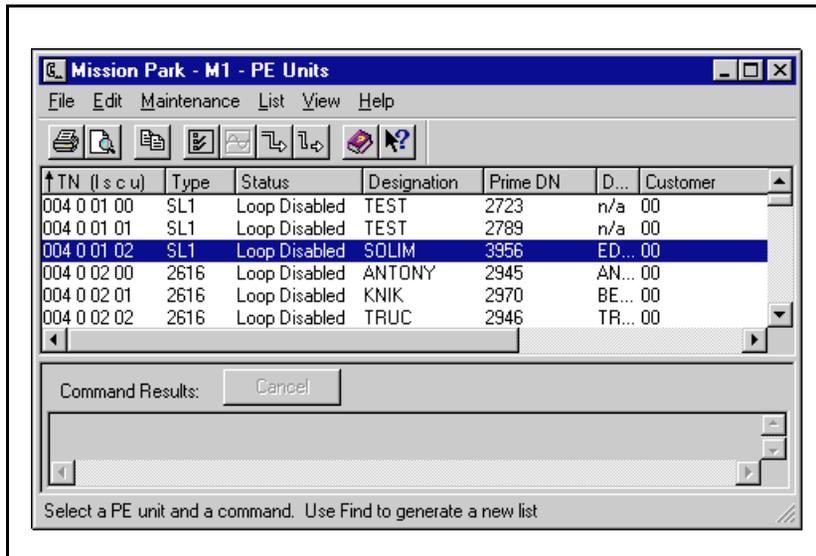
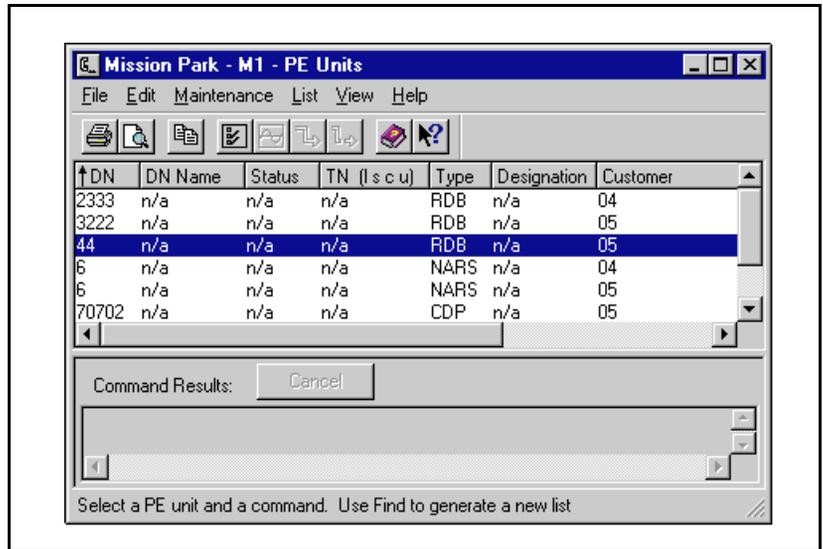


Figure 13
PE Units window (by DN)



The command results area in the lower portion of the window displays the results of Maintenance menu commands.

PE Units column definitions

The PE Units window provides columns of information about each DN and TN in the system. The PE Units window is initially sorted by DN or TN number (depending on what you specified in the **Find PE Units** dialog box). Table 13 describes each column.

Table 13
Column definitions

| Column Name | Description |
|-------------|---|
| TN | Terminal number address associated with the card. This address includes the loop, shelf, card, and unit number for all systems except Option 11. For Option 11 this address includes card and unit. |
| DN | Directory number. |
| Type | Type of PE unit. |
| Status | Current status of the PE unit. For a more detailed status report, use the Status command on the Maintenance menu. |
| Designation | Additional information about the unit, such as location or cabling details, specified by the person who installed the unit. |
| Prime DN | Directory number (DN) associated with key 0 on the telephone. |
| DN Name | Name associated with the directory number. |
| Customer | Customer number associated with the PE unit. |
| Date | Last date data was updated for this unit. |
| NCOS | Network Class of Service group associated with the unit. |
| Key | Telephone key number associated with the directory number (DN). |
| MARP | Indicates whether this telephone is the Multiple Appearance Redirection Prime (MARP). |

Supported PE Units commands

Table 14 lists the supported hardware and commands. Use System Terminal for hardware or commands not supported by the PE Units window.

Table 14
Supported PE Units commands

| Hardware | Supported | Commands supported |
|---|-----------|--------------------|
| 500 - 500/2500 telephone | yes | all |
| 1250 - M1250 Console | yes | all |
| 2003 - 2003 telephone | yes | all |
| 2006 - M2006 telephone | yes | all |
| i2004 - M2004 Internet telephone (ITG) | yes | all |
| 2008 - M2008 telephone | yes | all |
| 2009 - M2009 telephone | yes | all |
| 2016 - M2016 telephone | yes | all |
| 2018 - M2018 telephone | yes | all |
| 2112 - M2112 telephone | yes | all |
| 2216 - M2216 telephone (ACD) | yes | all |
| 2250 - M2250 Console | yes | all |
| 2317 - M2317 telephone | yes | all |
| 2616 - M2616 telephone | yes | all |
| 3000 - M3000 Touchphone | yes | all |
| ADM - Add-on Data Module | yes | all |
| AID - AIOD trunk | yes | all |
| <i>Note:</i> The manual test command is not supported for any trunk type. Option 11C Model TNs are not supported. | | |

Table 14
Supported PE Units commands (Continued)

| Hardware | Supported | Commands supported |
|--|-----------|--------------------|
| ATT - QCW3/4 Console | yes | all |
| ATVN - Autovon trunk | yes | all |
| AWR - Automatic Wake-Up RAN/Music trunk | yes | all |
| CMOD - Class Modem | yes | all |
| BRI - Basic Rate Interface | yes | all |
| COT - Central Office Trunk | yes | all |
| CSA - CCSA trunk | yes | all |
| DIC - Dictation trunk | yes | all |
| DCE - Digital Cordless Set | yes | all |
| DID - DID trunk | yes | all |
| DTD - Dial Tone Detector | yes | all |
| DTR - Digitone Receiver | yes | all |
| FEX - Foreign Exchange trunk | yes | all |
| FGDT - Feature Group D Trunk | yes | all |
| IDA - Integrated Digital Access | yes | all |
| ISA - Integrated Services Access trunk (ISDN) | yes | all |
| ITG - Integrated IP Telephony Gateway | yes | all |
| MCU - Communications Unit | yes | all |
| MDM - Modem/Data Module. D | yes | all |
| <p><i>Note:</i> The manual test command is not supported for any trunk type. Option 11C Model TNs are not supported.</p> | | |

Table 14
Supported PE Units commands (Continued)

| Hardware | Supported | Commands supported |
|---|-----------|--------------------|
| MFC - Multifrequency Signaling | yes | all |
| MFE - Multifrequency Signaling for Socotel sender/receiver | yes | all |
| MFK5/MFK6 - Spanish KD3 MF Signaling | yes | all |
| MFR - Multifrequency Receiver (FGD) | yes | all |
| MFVE - Multifrequency versatile units | yes | all |
| MUS - Music trunk | yes | all |
| OOSS - Out of Service Terminal | yes | all |
| PAG - Paging trunk | yes | all |
| PWR - Power | yes | all |
| R232 - Data Access unit | yes | all |
| R422 - Data Access unit | yes | all |
| RAC - Real Analog Channel | yes | all |
| RAN - Recorded Announcement trunk | yes | all |
| RCD - Recorder trunk | yes | all |
| RDC - Real Digital Channel | yes | all |
| RLM - Release Link Main trunk | yes | all |
| <i>Note:</i> The manual test command is not supported for any trunk type. Option 11C Model TNs are not supported. | | |

Table 14
Supported PE Units commands (Continued)

| Hardware | Supported | Commands supported |
|--|-----------|---|
| Mobility | | |
| —MPORTBL | yes | none |
| <p><i>Note:</i> This card appears in the list of cards. However, all maintenance commands for this card can only be accessed using the Mobility application.</p> | | |
| RLR - Release Link Remote trunk | yes | all |
| SL1 sets | yes | all |
| TCON - Tandem Connection for MPH | no | none |
| TDET - Tone Detector | yes | all |
| TIE - TIE trunk | yes | all |
| VAC - Virtual Analog Channel | yes | all |
| VDC - Virtual Digital Channel | yes | all |
| WAT - Wide Area Telephone Service trunk | yes | all |
| XTD - Extended Dial Tone Detector and Digitone Receiver | yes | all |
| DN types: ACDN, ADCP, CDN, CDP, CHDN, DISA, DSDN, FCC, LDN, MCDN, NARS, PARK, RDB, REFx, RLDN, RSA, SFP, SS25, T100, TSTx, VNS, IADN | yes | These are DNs which have no associated TN. Typically, the only command is print DN block. |
| <p><i>Note:</i> The manual test command is not supported for any trunk type. Option 11C Model TNs are not supported.</p> | | |

B- and D-channels window

The B and D-channels window displays the channels on the selected digital trunk. It allows you to execute overlay commands for a selected channel by choosing commands from the **Maintenance** menu. The results appear in the Command Results area of the window. The **Cancel** button allows you to terminate a command in progress.

The following types of channels appear in the B and D-channels window:

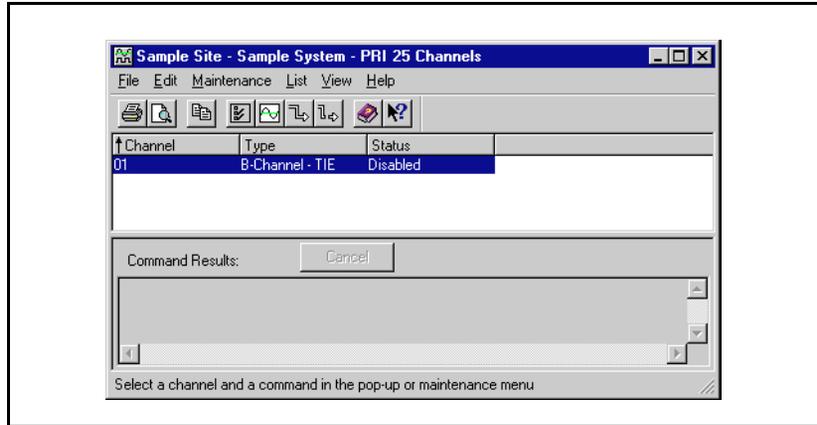
- B-channel on a PRI/PRI2/DTI/DTI2/DPNSS loop
- D-channel on DCHI Card
- D-channel on MSDL Card
- Real Analog Channel (RAC)
- Real Digital Channel (RDC)
- Virtual Analog Channel (VAC)
- Virtual Digital Channel (VDC)

Launching B- and D-channels

From the System window, under **Core Equipment**, double-click the **Network Loops** icon. Select a PRI/PRI2 loop. From the **Maintenance** menu or the right mouse popup menu, select **Channels**. The B and D-channels window appears (see Figure 14).

The command results area in the lower portion of the window displays the results of Maintenance menu commands.

Figure 14
Channels window



B- and D-channels column definitions

The B and D-channels window provides columns of information about each loop in the system. The B and D-channels list is initially sorted by Channel number. Table 15 describes each column.

Table 15
Column definitions

| Column Name | Description |
|----------------|--|
| Channel Number | Number associated with the channel. PRI loops may have 0-23 channels; PRI2 loops from 0-29 channels. |
| Type | Type of channel. |
| Status | Current status of the channel. |

Supported B- and D-channel commands

Table 16 lists the supported hardware and commands. Use System Terminal for hardware or commands not supported by the B and D-channels window.

Table 16
B and D-channels

| Hardware | Supported | Commands supported |
|--|------------------|--|
| The window contains the list of channels for the selected loop. D-channels can also be accessed from the I/O ports window. DPNSS loops have both real and channels | yes | all, except enable all channels on DTI cards and loopback test commands. |

Inventory Reporting

The MAT Inventory Reporting application allows you to generate system inventory files and download them to your PC. The inventory files list cards and sets installed in your system.

Note: Inventory Reporting requires that you have Maintenance Windows and Microsoft Excel 95 or later installed. You also need an Ethernet connection to your Meridian 1 switch.

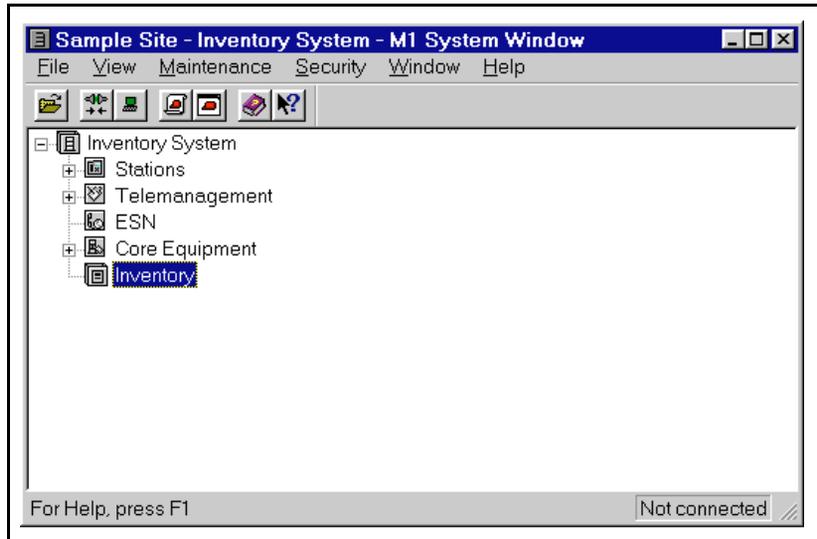
Inventory Reporting is based on Overlay 117. For additional overlay information, see the *Meridian 1 X11 input/output guide*.

Launch Inventory Reporting

- 1 In your MAT Navigator window, open a System Window for the Meridian 1 system you wish to inventory. (See Figure 15.) Connect to that system. (See the *Common Services User Guide* for procedures.)

Note: If you do not connect to a system before opening Inventory Reporting, some features are disabled.

Figure 15
Sample system window

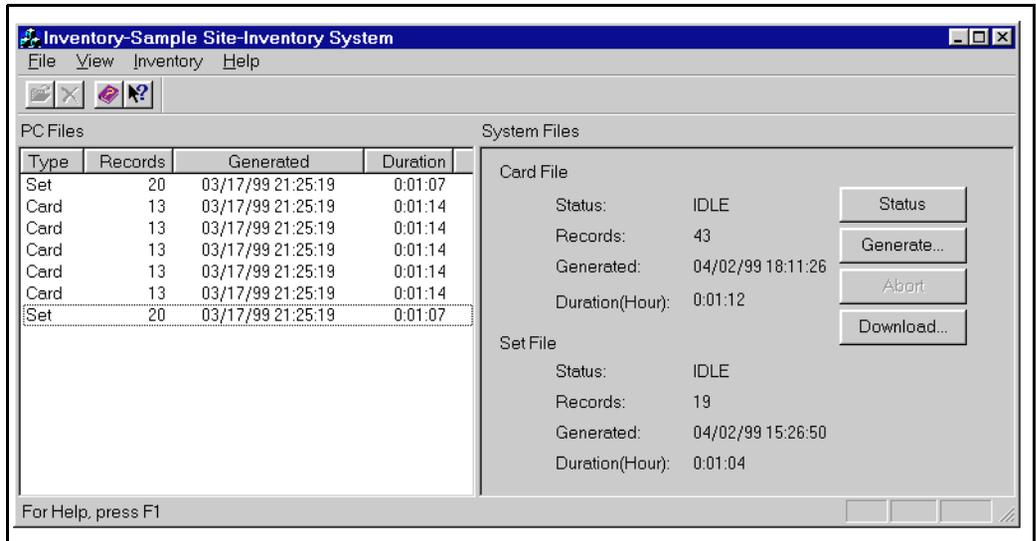


- 2 Once connected, double-click the System Window **Inventory** icon.

Note: If you have not connected to a system, a dialog box will appear asking if you want to connect. Click **Yes** to connect to a system, or click **No** to proceed without connecting.

The Inventory window (Figure 16) appears.

Figure 16
Inventory window



The main Inventory window contains the PC Files frame and the System Files frame. The PC Files frame lists inventory files downloaded from the Meridian 1 system. The System Files frame provides status and statistics for the Meridian 1 system.

Main window menus

Inventory Reporting's main window menus include the following commands:

- **File**
 - **Open**: Open the file selected in the list view of the PC File frame.
 - **Delete**: Delete the file selected in the list view of the PC File frame.
 - **Exit**: Exit the Inventory window.
- **View**
 - **Toolbar**: Toggle the Inventory toolbar.
 - **Status Bar**: Toggle the status bar.
 - **Automatic Status**: If selected, Inventory Reporting updates the inventory file status displayed on the System File frame every 10 seconds.
- **Inventory**
 - **Aabort...:** Abort any file generation now running on the system.
 - **Download...:** Download one or more inventory files from the system.
 - **Generate...:** Generate one or more inventory files.
 - **Status**: Query the inventory status of the system.
- **Help**
 - **Help Topic**: Provide a list of help topics.
 - **What's This?:** Change the cursor and display help information about the next item you select.
 - **About Inventory...:** Provide Inventory Reporting application release information.

Inventory files

The PC Files frame lists all inventory files downloaded from the Meridian 1 system. There are two types of inventory files available:

- Card Inventory files
- Set Inventory files

To open a file, select it from the list, then go to menu **File - Open**. Inventory Reporting creates a temporary report file (*.CSV) which opens in Microsoft Excel.

To delete a file from the list, select it and then go to menu **File - Delete**.

Card Inventory files

The Card Inventory file provides columns of information in Excel about each card configured in the system. Table 17 describes each column.

Figure 17
Sample Card Inventory file

| MPK-M1-Option11 Inventory Report | | |
|--|-----------|-----------------------------------|
| Type: Card Records: 13 Generated: 03/17/99 21:25:19 | | |
| TYPE | TN | ID PROM |
| 500 | 012 0 09 | <Unavailable> |
| 500 | 012 0 14 | <Unavailable> |
| BRI | 012 0 04 | <Unavailable> |
| BRI | 012 0 05 | NT6D70BA 05001F000000000000000000 |
| DLC | 012 0 08 | NT8D02AB 033KV500000000000000000 |
| DLC | 012 0 10 | NT8D02AA081808403540000000000000 |
| DLC | 012 0 12 | <Unavailable> |
| DTR | 012 0 15 | NT8D16AA061807356680000000000000 |
| MSDL | 8 | NT6D80AA 1500EE |
| Superloop | 12 | NT8D04BA 0204E0 |
| Superloop | 12 | XPEC4 NNTM1830F6A3 NT8D01BC 03 |
| XEM | 012 0 03 | <Unavailable> |
| XUT | 012 0 02 | <Unavailable> |

Table 17
Card Inventory file column descriptions

| Column name | Description |
|-------------|--|
| TYPE | Card type |
| TN | Terminal number address associated with the card. |
| ID PROM | 32 byte ASCII string whose characters (in order) represent: Product Engineering Code (PEC) Color (numeric representation) Release One blank character Product Serialization ID One blank character Other (free field) |

The following card types are included in the Card Inventory file:

- All IPE and common equipment cards
- All Meridian 1 cards that have a Hardware ID (a.k.a. ID PROM)

The following card types are not included in the Card Inventory file:

- Cards manufactured without an ID PROM
- TTY or PC cards
- Power Supply
- Any non-Nortel (third-party) cards, including those designed to simulate included cards.

Set Inventory files

The Set Inventory file provides columns of information in Excel about each set configured in the system. Table 18 describes each column.

Figure 18
Sample Set Inventory file

| MPK-M1-Option11 Inventory Report | | | | | |
|---|-------------|---------------|-----------------------|------------|------------|
| <i>Type: Set Records: 20 Generated: 03/17/99 21:25:19</i> | | | | | |
| TYPE | TN | ID | PROM | DESIGNATOR | PRIMARY DN |
| 2016 | 012 0 08 06 | <Unavailable> | | 2016 | 2032 |
| 2016 | 012 0 08 22 | <Unavailable> | | MCA | 2332 |
| 2216 | 012 0 08 03 | <Unavailable> | | AGNT1 | 2951 |
| 2216 | 012 0 08 08 | <Unavailable> | | NAGNT1 | 3951 |
| 2216 | 012 0 08 09 | <Unavailable> | | NACD | 4950 |
| 2216 | 012 0 08 10 | <Unavailable> | | NAGNT1 | 4951 |
| 2616 | 012 0 08 00 | <Unavailable> | | 2616 | 2020 |
| 2616 | 012 0 08 02 | M2616 | NT2K16WK 35 01 C31632 | 2616 | 20210 |
| 2616 | 012 0 08 04 | M2616 | NT2K16WM 35 01 C310C8 | 2616 | 2022 |
| 2616 | 012 0 08 11 | M2616 | NT2K16WN 35 01 33A45D | 2616 | 3021 |
| 2616 | 012 0 08 12 | <Unavailable> | | 2616 | 4021 |
| 2616 | 012 0 08 16 | <Unavailable> | | MCA | 2320 |
| 2616 | 012 0 10 00 | <Unavailable> | | DJL | 0 |
| 3901 | 012 0 08 15 | <Unavailable> | | TAUR | 0 |
| 3905 | 012 0 08 14 | <Unavailable> | | TAUR2 | 0 |
| AWR | 012 0 02 06 | <Unavailable> | | AGNT1 | 0 |
| R232 | 012 0 12 00 | <Unavailable> | | R232 | 2301 |
| R232 | 012 0 12 01 | <Unavailable> | | R232 | 2302 |
| R232 | 012 0 12 04 | <Unavailable> | | R232 | 2303 |
| R232 | 012 0 12 05 | <Unavailable> | | R232 | 2304 |

Table 18
Set Inventory file column descriptions

| Column name | Description |
|-------------|--|
| TYPE | Set type |
| TN | Terminal number address associated with the set. |
| ID Prom | 32 byte ASCII string whose characters (in order) represent: Product Engineering Code (PEC) Color (numeric representation) Release One blank character Product Serialization ID One blank character Other (free field) |
| DESIGNATOR | 6 character ASCII string used by Station Administration and Overlay 11. |
| Primary DN | Primary directory number |

The following sets are included in the Set Inventory file:

| | |
|-------|-------|
| M2006 | M2008 |
| M2016 | M2616 |
| M2216 | M390X |
| M3110 | M3310 |
| M3820 | |

The following sets (and data units) are not included in the Set Inventory file:

- Data units on:

| | |
|-------|-------|
| M2006 | M2008 |
| M2016 | M2616 |
| M2216 | M390X |
| M3110 | M3310 |
| M3820 | |

- SL-1 sets and data units
- 500/2500 sets and data units
- Any other digital sets or data units
- Any non-Nortel (third-party) sets, including those designed to simulate included sets.

Generate an inventory file

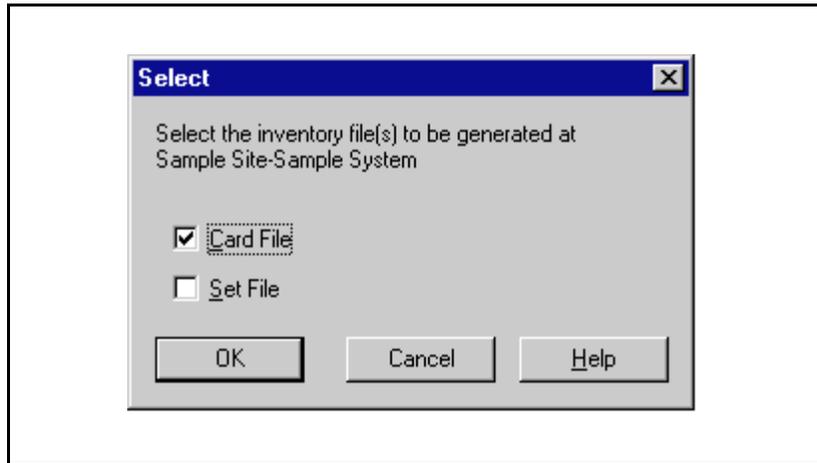
You will need System Administrator privileges to generate an inventory file.

To generate the file:

- 1 In the Inventory window, select **I**nventory - **G**enerate...

A dialog box appears.

Figure 19
Select file to generate



- 2 Check **C**ard File to generate the Card Inventory file.

- 3 Check **S**et File to generate the Set Inventory file.

Note: If both boxes are checked, both files will be generated.

- 4 Click **O**K to begin generating the file(s).

Download an inventory file

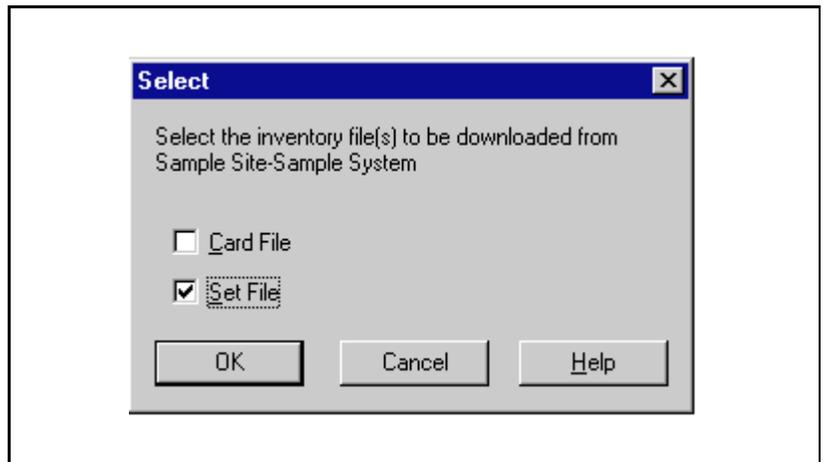
You will need System Administrator privileges to download an inventory file.

To download the file:

- 1 In the Inventory window, select **I**nventory - **D**ownload...

A dialog box appears.

Figure 20
Select file to download



- 2 Check **C**ard File to download the Card Inventory file.
- 3 Check **S**et File to download the Set Inventory file.
Note: If both boxes are checked, both files will be downloaded.
- 4 Click **OK** to begin downloading the file(s).

Check file generation status

To check file status:

- 1 In the Inventory window, select **Inventory - Status**.

The System Files frame information is updated. Set and Card Inventory status consists of a state value and a substate value. See Table 19 and Table 20 for their interpretations.

Table 19
Valid state values

| State value | Meaning |
|-------------|---|
| IDLE | There is no activity on the switch involving the inventory files. |
| BUSY | An inventory file is in use. |

Table 20
Valid substate values

| Substate value | Meaning |
|----------------|---|
| NONE | There is no activity on the switch involving the inventory files. |
| GENERATING | An inventory file is being generated by the switch software. |
| DOWNLOADING | An inventory file is being downloaded from the switch to the PC. |

Abort file generation

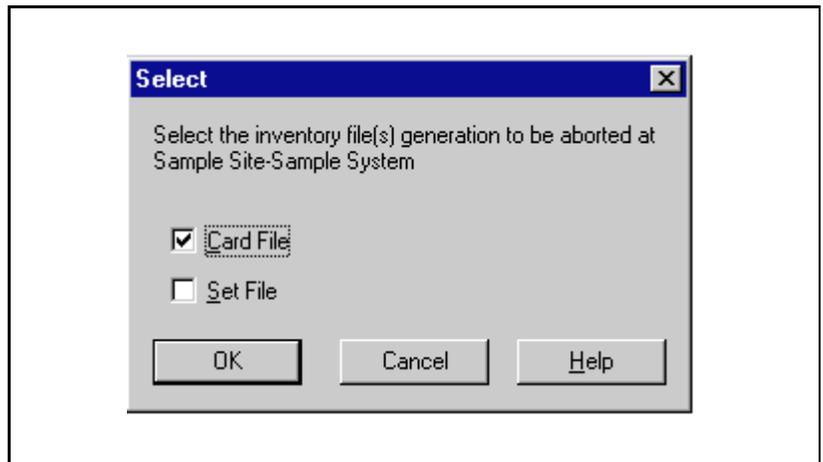
You will need System Administrator privileges to abort generation of an inventory file.

To abort generation:

- 1 In the Inventory window, select **Inventory - Abort**

A dialog box appears.

Figure 21
Select file to abort



- 2 Check **Card File** to abort generation of the Card Inventory file.
- 3 Check **Set File** to abort generation of the Set Inventory file.
Note: If both boxes are checked, both files will be aborted.
- 4 Click **OK** to abort generation of the file(s).

Meridian Administration Tools
Maintenance Windows
User Guide

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