NORTEL NETWORKS

Preside Multiservice Data Manager

Device Inventory Tools

User Guide

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User Guide

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Contents

About this document

This document describes how to use the Device Inventory tools to produce reports on the hardware and software configuration of selected devices in your network.

The following topics are discussed in this section:

Who should read this document and why

This document is intended for personnel who use and customize the Device Inventory tools to produce reports on the hardware and software configuration of Passport 7400, Passport 15000, and Passport 20000 series modules, and DPN-100 modules in their networks.

What you need to know

The Device Inventory tools lets you produce reports from a graphical user interface (GUI) or a command line. Before using the Device Inventory tools, you should have a basic knowledge of Sun workstations and the UNIX operating system, and be familiar with Preside Multiservice Data Manager (MDM) user interface. To customize existing reports and to create new reports, you need to know how to program in DtKsh script and how to use EPI libraries.

How this document is organized

This document consists of an introductory chapter that provides an overview of the Passport and DPN Inventory tools. This chapter is followed by chapters describing each tool in greater detail and that providing examples of the reports that you can produce.

241-6001-808 *Preside MDM Device Inventory Tools User Guide* contains the following sections:

- "Introducing the Inventory Reports tools" (page 15) gives a brief overview of the Inventory Reports tool for DPN and Passport devices and their functionality.
- "Passport Inventory Reports tool" (page 19) describes how you can produce reports on the Passport modules in your network.
- "DPN Inventory Reports tool" (page 35) describes how can produce reports on the DPN modules in your network.
- "Passport Inventory Reports" (page 49) provides examples of the reports that come with the Passport Inventory tool.
- "DPN Inventory Reports" (page 67) provides examples of the reports that come with the DPN Inventory tool.

What's new in this document

There have not been any new changes to this NTP for this release.

Text conventions

This document uses the following text conventions:

- `nonproportional spaced plain type`

  Nonproportional spaced plain type represents system generated text or text that appears on your screen.

- **`nonproportional spaced bold type`**

  Nonproportional spaced bold type represents words that you should type or that you should select on the screen.

- *italics*

  Statements that appear in italics in a procedure explain the results of a particular step and appear immediately following the step.

  Words that appear in italics in text are for naming.

- [optional_parameter]

  Words in square brackets represent optional parameters. The command can be entered with or without the words in the square brackets.

- <general_term>

  Words in angle brackets represent variables which are to be replaced with specific values.

- UPPERCASE,lowercase

  In Preside Multiservice Data Manager (MDM), uppercase and lowercase letters that appear in UNIX commands and parameters must be matched exactly. The system matches upper and lowercase characters differently.

- UPPERCASE,lowercase

  Passport commands are not case-sensitive and do not have to match commands and parameters exactly as shown in this document, with the exception of string options values (for example, file and directory names) and string attribute values.

- |

  This symbol separates items from which you may select one; for example, ON|OFF indicates that you may specify ON or OFF. If you do not make a choice, a default ON is assumed.

- ...

  Three dots in a command indicate that the parameter may be repeated more than once in succession.

The term absolute pathname refers to the full specification of a path starting from the root directory. Absolute pathnames always begin with the slash (/) symbol. A relative pathname takes the current directory as its starting point, and starts with any alphanumeric character (other than /).

Related documents

See the following documents for related information:

- 241-6001-211 *Preside MDM Embedded Programming Interface Reference Guide*

Chapter 1
Introducing the Inventory Reports tools

This chapter provides an overview of the Inventory Reports tool for DPN and Passport devices. In this chapter, you can find the following information:

About the Inventory Reports tools

The Inventory Reports tools are reporting tools that let you report on the hardware and software configuration of selected devices in your network. Currently, you can produce reports on Passport 7400 and Passport 15000 series modules, and DPN-100 modules.

The Passport and DPN Inventory Reports tools come with a set of pre-defined reports that you can use. You can also customize these reports and design new reports.

See also:

Inventory Reports configuration files

There is a configuration file for each device for which you can produce reports. You can copy and edit these configuration files to add entries for the new reports that you design.

See also...

- "Passport inventory reports configuration file" (page 21)
- "DPN inventory reports configuration file" (page 37)

Customizing and creating reports

The Passport and DPN inventory reports are generated by DeskTop Korn Shell (DtKsh) scripts. These scripts use the Embedded Programming Interface (EPI) libraries to obtain information directly from the devices. For more information on DtKsh and EPI, see 241-6001-211 *Preside MDM Embedded Programming Interface Reference Guide*.

You can customize existing inventory reports and create new reports. By using a script-based approach such as DtKsh, you can change and create reports without the need for recompiling.

See also...

- "Customizing and creating Passport Inventory Reports" (page 21)
- "Customizing and creating DPN inventory reports" (page 37)

Starting the Inventory Reports tools

For Passport and DPN devices, you can start the Inventory Reports tools from the Preside MDM window or by using line commands. In addition, there are line commands that let you produce Inventory reports independently of the GUI.

See also...

- "Starting the Passport Inventory Reports tool" (page 20)
- "Producing reports using a command line" (page 31)
- "Starting the DPN Inventory Reports tool" (page 36)

- “Producing reports using a command line” (page 46)

Chapter 2
Passport Inventory Reports tool

This chapter describes the Inventory Reports tool for Passport devices and contains procedures for using it. The **Passport Inventory Reports** tool supports Passport 7400, Passport 15000, and Passport 20000 series modules.

In this chapter, you can find the following information:

About the Passport Inventory Reports tool

The **Passport Inventory Reports** tool lets you produce reports for the modules in a Passport group or for a specific module. In addition to using existing reports, you can design custom reports. The reports can be produced from a graphical user interface or from a command line.

See also...

- "Customizing and creating Passport Inventory Reports" (page 21)
- "Passport inventory reports configuration file" (page 21)

Starting the Passport Inventory Reports tool

In the **Preside MDM** window, select **Configuration** -> **Passport** -> **Inventory Reports**. This opens the **Passport Inventory Reports Tool** window.

As an alternative, you can use a line command to launch the Passport Inventory Tool window. Enter the following command:

```
/opt/MagellanNMS/bin/pprep [-group <group_name> ]
   [-comp <module_name>] [-rep <report_name>] [-h]
```

where:

`group_name` is the name of the Passport group on which you want to report. This field is not case-sensitive.

`-h` displays online help for this command.

`module_name` is the name of the Passport module on which you want to report. This field is not case-sensitive and can be in any valid format, for example, -comp node1A, -comp EM/node1A, or -comp EM node1A.

`report_name` is the identifier of a report. When you use the -rep parameter, the specified report is generated as soon as the Passport Inventory Tool window opens. The names of available reports are specified in the configuration file pprep.reports using the option *createReportBTN <report_name>*. See "Configuration file format" (page 22) for more information.

Example

The following command opens the Passport Inventory Tool window and produces the Frame Relay Services Report for Passport module PP1:

```
/opt/MagellanNMS/bin/pprep -comp EM/PP1
-rep PP_FR_REPORT
```

Customizing and creating Passport Inventory Reports

The Passport inventory reports are generated using DeskTop Korn Shell (DtKsh) scripts. These scripts use the Embedded Programming Interface (EPI) libraries to obtain information directly from the Passport nodes.

To customize existing reports and create new reports, you need to know how to program in DtKsh script and how to use the EPI libraries. For more information, see 241-6001-211 *Preside MDM Embedded Programming Interface Reference Guide*.

The Passport Inventory Reports tool searches for the report scripts in the following directories and in the following order:

1 *$HOME/MagellanNMS*
This directory contains the report scripts that are available to a single Preside Multiservice Data Manager (MDM) user.

2 */opt/MagellanNMS/cfg/macros/user*
This directory contains the report scripts that are available to all MDM users.

3 */opt/MagellanNMS/lib/macros/nms*
This directory contains the report scripts that come with the MDM software. These report scripts should never be modified. When you need to override these report scripts or when you create new report scripts, place the updates in either the first or second location.

When you create a new report, you need to add a new entry to the Passport inventory reports configuration file pprep.reports. For more information, see “Passport inventory reports configuration file” (page 21).

Passport inventory reports configuration file

All of the Passport inventory reports are specified in the configuration file pprep.reports. You can copy and customize this file to reflect any new reports that are added to the Passport Inventory Reports tool.

See also...

- “Configuration file location” (page 22)

- "Configuration file format" (page 22)

Configuration file location

The **Passport Inventory Reports** tool searches for the configuration file in the following directories and in the following order:

1 *$HOME/MagellanNMS*
To customize the reports available to a single user, copy the configuration file to this directory and make your changes.

2 */opt/MagellanNMS/cfg*
To customize the reports available on a workstation, copy the configuration file to this directory and make your changes.

3 */opt/MagellanNMS/lib/cfg*
This directory is the default location of the configuration file. Do not edit the configuration file in this directory; instead use it as the source when you want to copy pprep.reports to the other directories.

Configuration file format

The pprep.reports file contains DtKsh commands in the following format:

```
createReportBtn <report_name> \
"<report_button_label>" \
"<btn_mnemonic>" "<btn_accelerator>" \
"<btn_acc_label>" \
"scriptReport <report_script_name>"
```

where:

`btn_acc_label` is the text string, specifying the keyboard accelerator for this report, that is displayed in the Reports menu.

`btn_accelerator` is the keyboard accelerator for this report.

`btn_mnemonic` is the keyboard mnemonic key for this report.

`report_button_label` is the text string, specifying the title for this report, that is displayed in the Reports menu.

`report_name` is a unique report identifier. No spaces are allowed.

`report_script_name` is the name of the reporting script. The **Passport Inventory Reports** tool searches for the script in the following directories and in the following order:

$HOME/MagellanNMS
/opt/MagellanNMS/cfg/macros/user
/opt/MagellanNMS/lib/macros/nms.

You can override the default directories by including the full pathname as part of report_script_name.

Example 1

```
createReportBtn PP_FR_REPORT \
"Frame Relay Services Report" \
"F" "Ctrl<Key>f" "Ctrl+f" \
"scriptReport ppfrrep"
```

Example 2

You can produce the same report as above, but from a directory of your choice by including the full pathname:

```
createReportBtn PP_FR_REPORT \
"Frame Relay Services Report" \
"F" "Ctrl<Key>f" "Ctrl+f" \
"scriptReport /home/nmsuser/bin/ppfrrep"
```

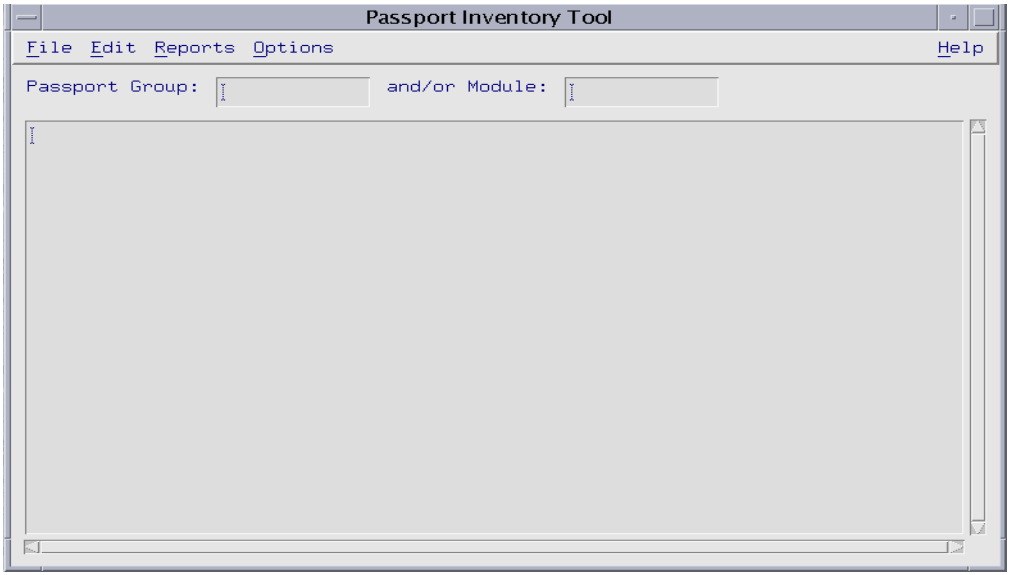
Passport Inventory Reports tool window

The **Passport Inventory Reports** tool window contains the following sections:

- "Menu bar" (page 24)
- "Passport Group field" (page 25)
- "Module field" (page 26)
- "Report area" (page 26)

See the figure "Passport Inventory Tool window" (page 24) for an example of the **Passport Inventory Reports Tool** window.

Figure 1
Passport Inventory Tool window



Menu bar

The menu bar is located at the top of the **Passport Inventory Reports Tool** window. See the following sections for information on the menu bar entries:

- “File menu” (page 24)
- “Edit menu” (page 25)
- “Reports menu” (page 25)
- “Options menu” (page 25)

File menu

The **File** menu contains the following options:

- **Save as** opens the **Save Report to File** dialog. This dialog lets you save the report output to a file that you specify. See also “Save Report to File dialog” (page 28).
- **Print** opens the **Print Report** dialog, which allows you to print the report output. See also “Print Report dialog” (page 29).
- **Exit** exits the **Passport Inventory Reports** tool.

Edit menu

The **Edit** menu contains options for editing text in the report area. The options are:

- **Cut** removes any selected text and places it in a cut/copy buffer.
- **Copy** copies any selected text and places it in a cut/copy buffer.
- **Paste** places the last cut or copied text at the insertion point in the report area.
- **Delete** deletes any selected text.

Reports menu

The **Reports** menu lists all available Passport inventory reports. You can add custom reports to this menu. Until you specify a **Passport Group** name and/or **Module** name on the **Passport Inventory Reports** window, all reports are grayed out and unselectable except for **List Available Modules and Groups.**

The reports listed in the **Reports** menu are specified in the configuration file pprep.reports. For more information on this file, see “Passport inventory reports configuration file” (page 21).

Options menu

The **Options** menu contains the following options:

- **Append to Existing Text** lets you add any new report output to the existing report output. If you do not select this option, any new report output replaces the existing report output. By default, this option is enabled.
- **Generate CSV Output** lets you save any new report output as CSV data. You can use CSV data as input to a spreadsheet. If you do not select this option, any new report output is displayed as usual. By default, this option is disabled.

Passport Group field

This field is optional. Enter the name of the Passport group on which you want to report. If you want information on a particular module, leave this field empty and enter the module name in the **Module** field.

If you enter the Passport group and not a module, the report is produced for all modules in the specified group. If you do not specify a Passport group or a module name, the only report you can create is **List Available Modules and Groups**.

Module field

This field is optional. You can enter the name of the module on which you want to report.

When you use the **Module** field and not the **Passport Group** field, the correct group is obtained from the HGDS server. If you do not specify a Passport group or a module name, the only report you can create is **List Available Modules and Groups**.

Report area

This scrollable area displays the reports you create and any messages generated by the **Passport Inventory Reports** tool.

Passport Inventory Reports tool dialogs

See the following sections for information on **Passport Inventory Reports** tool dialogs:

- "Passport Authentication dialog" (page 26)
- "Card Inventory Options dialog" (page 27)
- "Save Report to File dialog" (page 28)
- "Print Report dialog" (page 29)

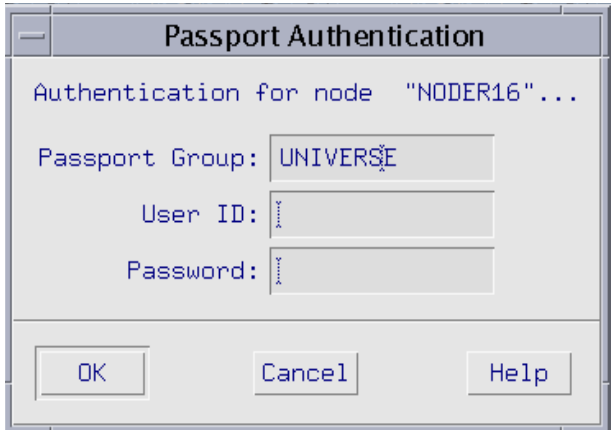
Passport Authentication dialog

The **Passport Authentication** dialog is displayed when you try to generate a report and you do not have a connection to the required Passport group. This dialog prompts you for a Passport group, user ID, and password, which are required before authentication can take place. The buttons are:

- **OK** completes the connection and closes the dialog.
- **Cancel** stops the connection attempt and closes the dialog.

For an illustration of the **Passport Authentication** dialog, see the figure “Passport Authentication dialog” (page 27).

Figure 2
Passport Authentication dialog



Card Inventory Options dialog

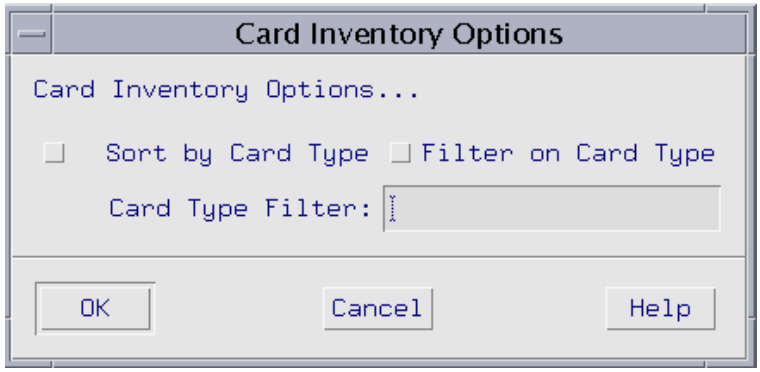
The **Card Inventory Options** dialog opens when you select the Passport **Card Inventory** command from the **Reports** menu. This dialog lets you sort the Passport card inventory by card type or report on a card type that you specify. The **Card Type Filter** field is not case-sensitive and you cannot use wildcards.

The buttons are:

- **OK** uses the information you enter to produce the **Passport Card Inventory** report and closes the dialog.
- **Cancel** closes the dialog without producing the **Passport Card Inventory** report.

Ror an illustration of the **Card Inventory Options** dialog, see the figure "Card Inventory Options dialog" (page 28).

Figure 3
Card Inventory Options dialog



Save Report to File dialog

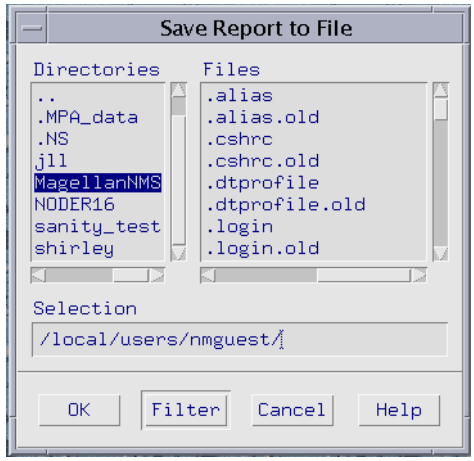
The **Save Report to File** dialog lets you specify the name of a file for saving the current report output

The buttons are:

- **OK** saves your report in the file you specify and closes the dialog.
- **Filter** lets you choose what files are listed.
- **Cancel** closes the dialog without saving your report.

For an illustration of the **Save Report to File** dialog, see the figure "Save Report to File dialog" (page 29).

Figure 4
Save Report to File dialog



Print Report dialog

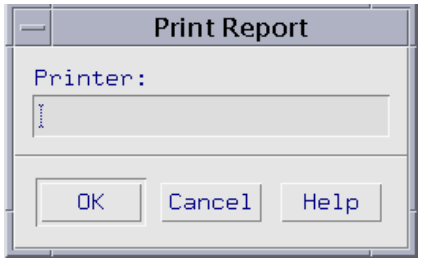
The **Print Report** dialog lets you enter a printer name when you print a report.

The buttons are:

- **OK** prints the report and closes the dialog.
- **Cancel** closes the dialog without printing the report.

For an illustration of the **Print Report** dialog, see the figure “Print Report dialog” (page 30).

Figure 5
Print Report dialog



Passport Inventory Reports tool procedures

See the following sections for information on Passport Inventory Reports procedures:

- "Producing reports using the Passport Inventory Reports tool window" (page 30)
- "Producing reports using a command line" (page 31)

Producing reports using the Passport Inventory Reports tool window

You can select a Passport group, module, and report from the **Passport Inventory Reports** tool window. You need to establish a connection to a Passport group or module before you can produce a report.

1 On the **Passport Inventory Tool** window, in the **Passport Group** field, enter the Passport group. Optionally, you can enter the module name in the **and/or Module** field.

   If you specify only the Passport group, the report is produced for all modules in the specified group.

   If you specify only the module, the correct group is obtained from the HGDS server and the report is produced only for the specified module.

   Note: If you enter nothing in the **Passport Group** and the **and/or Module** fields, the only report you can produce is **List Available Modules and Groups**.

2 From the **Options** menu, deselect **Append to existing text** if you want the new report output to replace existing report output. By default, **Append to existing text** is selected.

3 From the **Options** menu, select **Generate CSV output** if you want to save the new report output as CSV data. By default, **Generate CSV output** is deselected.

4 From the **Reports** menu, select a report.

If no connection exists to the required Passport group, the **Passport Authentication** dialog opens. See “Passport Authentication dialog” (page 27).

5 In the **Passport Authentication** dialog, enter the **Passport Group**, **User ID**, and **Password** and click **OK**.

When a valid connection exists, the report is created and appears in the report area.

If there is a connection to the Passport group, the report is created and is displayed in the report area.

Producing reports using a command line

You can use a command line to produce reports independently of the graphical user interface. The report output goes to stdout. The command syntax is:

```
/<pathname>/<report_script_name>
   [-group <group_name> ] [-u <userid> -p <password>]
   [-csv] [-st]
   [-ft <card_type>] [-h] [module(s)]
```

where:

`pathname` is the directory where the report script resides.

`report_script_name` is the script name of the report that you need to produce. The script names of available reports are specified in the configuration file pprep.reports using the option *scriptReport <report_script_name>*. See “Configuration file format” (page 22) for more information.

`- group <group_name>` is the name of the Passport group on which you want to report. This field is not case-sensitive.

`-u <userid>` is the userid for logging on to a Passport group.

`-p <password>` is the password for the userid specified by the -u option.

`-csv` formats the report output in CSV format.

`-st` is used only for the Passport Card Inventory. This option sorts the card inventory by card type.

`-ft <card_type>` The -ft option filters the card inventory by the specified card type. `<card type>` is used only for the Passport Card Inventory.

`-h` displays online help for this command.

`module(s)` is the name(s) of the Passport module(s) on which you want to report. This field is not case-sensitive.

Note: All command options must appear before the module names.

Example
The following command is used to produce the Passport **ATM Services Report** for group ALPHA. In this case the directory containing the report scripts that come with the MDM software is used.

```
/opt/MagellanNMS/lib/macros/nms/ppatmrep -group ALPHA
```

Using the keyboard

You can produce any Passport inventory report by using its command accelerator, which is displayed in the Reports menu.

In addition, the **Passport Inventory Reports** tool provides the following keyboard shortcuts:

- Ctrl+s for Save as
- Ctrl +p for Print
- Ctrl+e for Exit

Some characters in menus and in menu items have an underscore (_). These characters are mnemonics that you can use instead of using the mouse. Use the Meta key in combination with the mnemonics.

Examples

Meta+f on the **Passport Inventory Reports** tool window opens the File menu.

Meta+c on the Edit menu is the same as Copy.

Chapter 3
DPN Inventory Reports tool

This chapter describes the DPN Inventory tool and contains procedures for using it. In this chapter, you can find the following information:

About the DPN Inventory Reports tool

The **DPN Inventory Reports** tool lets you produce reports for the modules under an operations agent (OA) or for a specific module. In addition to using existing reports, you can design custom reports. The reports can be produced from a GUI or from a command line.

See also...

- "Customizing and creating DPN inventory reports" (page 37)
- "DPN inventory reports configuration file" (page 37)
- "DPN Inventory Reports tool window" (page 39)

Starting the DPN Inventory Reports tool

To open the **DPN Inventory Reports** tool window, from the **Preside MDM** window, select **Configuration** -> **DPN** -> **Inventory Reports**.

As an alternative, you can use a line command to launch the Device Inventory main window. Enter the following command:

```
/opt/MagellanNMS/bin/dpnrep [-oa <oa_name> ]
   [-comp <module_name>] [-rep <report_name>] [-h]
```

where:

`-h` displays online help for this command.

`module_name` is the name of the DPN module on which you want to report. This field is not case-sensitive and can be in any valid format, for example, -comp node1A, -comp PM/node1A, or -comp PM node1A.

`oa_name` is the name of the OA on which you want to report. This field is not case-sensitive.

`report_name` is the identifier of a report. When you use the -rep parameter, the specified report is generated as soon as the DPN Inventory main window opens. The names of available reports are specified in the configuration file dpnrep.reports using the option *createReportBTN* <*report_name*>. See "Configuration file format" (page 38) for more information.

Example

The following command opens the DPN Inventory main window and produces the DPN PE Report for DPN module RM1:

```
/opt/MagellanNMS/bin/dpnrep -oa BNROA -comp PM/RM1
-rep DPN_PE_REPORT
```

Customizing and creating DPN inventory reports

The DPN inventory reports are generated using DeskTop Korn Shell (DtKsh) scripts. These scripts use the Embedded Programming Interface (EPI) libraries to obtain information directly from the DPN nodes.

To customize existing reports and create new reports, you need to know how to program in DtKsh script and how to use the EPI libraries. For more information, see 241-6001-211 *Preside MDM Embedded Programming Interface Reference Guide*.

The **DPN Inventory Reports** tools searches for the report scripts in the following directories and in the following order:

1 *$HOME/MagellanNMS*
This directory contains the report scripts that are available to a single Preside Multiservice Data Manager (MDM) user.

2 */opt/MagellanNMS/cfg/macros/user*
This directory contains the report scripts that are available to all MDM users.

3 */opt/MagellanNMS/lib/macros/nms*
This directory contains the report scripts that come with the MDM software. These report scripts should never be modified. When you need to override these report scripts or when you create new report scripts, place the updates in either the first or second location.

When you create a new report, you need to add a new entry to the DPN Inventory configuration file dpnrep.reports. For more information, see “DPN inventory reports configuration file” (page 37).

DPN inventory reports configuration file

All of the DPN inventory reports are specified in the configuration file dpnrep.reports. You can copy and customize this file to reflect any new reports that are added to the **DPN Inventory Reports** tool.

See also...

- “Configuration file location” (page 38)
- “Configuration file format” (page 38)

Configuration file location

The **DPN Inventory Reports** tool searches for the configuration file in the following directories and in the following order:

1 *$HOME/MagellanNMS*
To customize the reports available to a single user, copy the configuration file to this directory and make your changes.

2 */opt/MagellanNMS/cfg*
To customize the reports available on a workstation, copy the configuration file to this directory and make your changes.

3 */opt/MagellanNMS/lib/cfg*
This directory is the default location of the configuration file. Do not edit the configuration file in this directory; instead use it as the source when you want to copy dpnrep.reports to the other directories.

Configuration file format

The dpnrep.reports file contains DtKsh commands in the following format:

```
createReportBtn <report_name> \
"<report_button_label>" \
"<btn_mnemonic>" "<btn_accelerator>" \
"<btn_acc_label>" \
"scriptReport <report_script_name>"
```

where:

`btn_acc_label` is the text string, specifying the keyboard accelerator for this report, that is displayed in the Reports menu.

`btn_accelerator` is the keyboard accelerator for this report.

`btn_mnemonic` is the keyboard mnemonic key for this report.

`report_button_label` is the text string, specifying the title for this report, that is displayed in the Reports menu.

`report_name` is a unique report identifier. No spaces are allowed.

`report_script_name` is the name of the reporting script. The **DPN Inventory Reports** tool searches for the script in the following directories and in the following order:

$HOME/MagellanNMS
/opt/MagellanNMS/cfg/macros/user
/opt/MagellanNMS/lib/macros/nms.

You can override the default directories by including the full pathname as part of report_script_name.

Example 1

```
createReportBtn DPN_PE_REPORT \
"PE INVENTORY" \
"P" "Ctrl<Key>p" "Ctrl+p" \
"scriptReport dpnperep"
```

Example 2

You can produce the same report as above, but from a directory of your choice by including the full pathname:

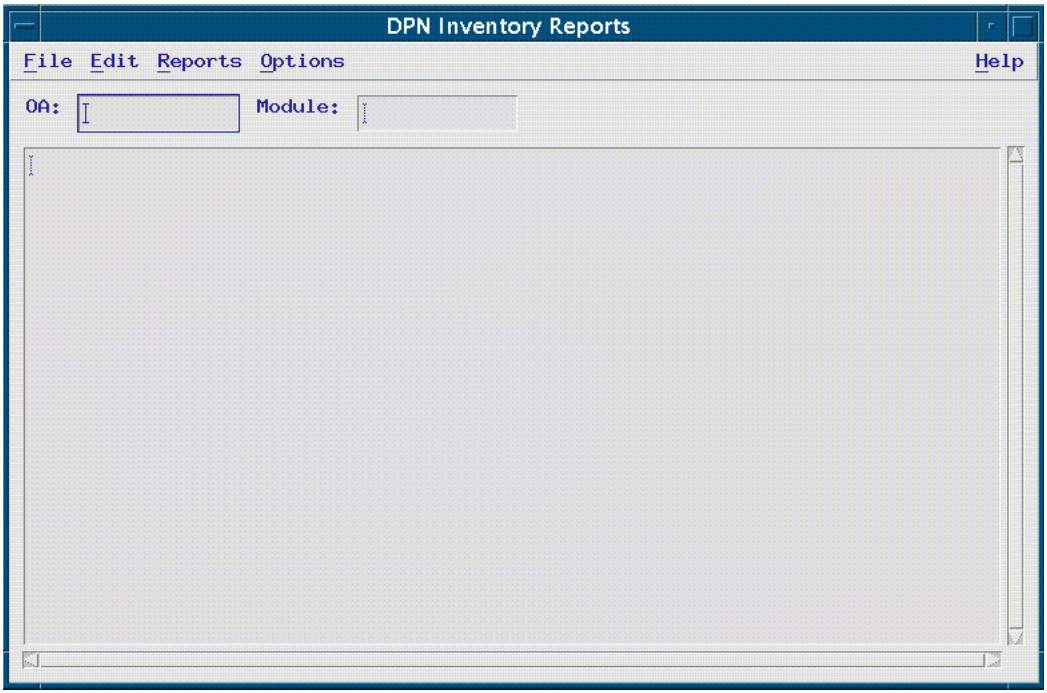
```
createReportBtn DPN_PE_REPORT \
"PE INVENTORY" \
"P" "Ctrl<Key>p" "Ctrl+p" \
"scriptReport /home/nmsuser/bin/dpnperep"
```

DPN Inventory Reports tool window

The **DPN Inventory Reports** tool window contains the following sections:

- "Menu bar" (page 40)
- "OA data field" (page 42)
- "Module data field" (page 42)
- "Report area" (page 42)

Figure 6
DPN Inventory Tool window



Menu bar

The menu bar is located at the top of the **DPN Inventory Reports** tool window. See the following sections for information on the menu bar entries:

- “File menu” (page 40)
- “Edit menu” (page 41)
- “Reports menu” (page 41)
- “Options menu” (page 41)

File menu

The **File** menu contains the following options:

- **Save as** opens the **Save Report to File** dialog. This dialog lets you save the report output to a file that you specify. See also “Save Report to File dialog” (page 43).

- **Print** opens the **Print Report** dialog, which allows you to print the report output. See also “Print Report dialog” (page 44).
- **Exit** exits the **DPN Inventory Reports** tool.

Edit menu

The **Edit** menu contains options for editing text in the report area. The options are:

- **Cut** removes any selected text and places it in a cut/copy buffer.
- **Copy** copies any selected text and places it in a cut/copy buffer.
- **Paste** places the last cut or copied text at the insertion point in the report area.
- **Delete** deletes any selected text.

Reports menu

The **Reports** menu lists all available DPN inventory reports. You can add custom reports to this menu. Until you specify an OA name or module name on the **DPN Inventory Reports** window, all reports are grayed out and unselectable.

The reports listed in the **Reports** menu are specified in the configuration file dpnrep.reports. For more information on this file, see “DPN inventory reports configuration file” (page 37).

Options menu

The **Options** menu contains the following options:

- **Append to Existing Text** lets you add any new report output to the existing report output. If you do not select this option, any new report output replaces the existing report output. By default, this option is enabled.
- **Generate CSV Output** lets you save any new report output as CSV data. You can use CSV data as input to a spreadsheet. If you do not select this option, any new report output is displayed as usual. By default, this option is disabled.

OA data field

The **OA** field is mandatory. Enter the name of the OA on which you want to report. If you want information on a particular module, enter the module name in the **Module** field.

If you enter the OA and not a module, the report is produced for all modules under the specified OA. Subordinate OAs are traversed, with modules under them also reported on. If you leave the **OA** and **Module** fields blank, you cannot produce any reports.

Module data field

This field is optional. You can enter the name of the module on which you want to report.

Report area

This scrollable area displays the reports you create and any messages generated by the **DPN Inventory Reports** tool.

DPN Inventory Reports tool dialogs

See the following sections for information on **DPN Inventory Reports** tool dialogs:

- "OA Authentication dialog" (page 42)
- "Save Report to File dialog" (page 43)
- "Print Report dialog" (page 44)

OA Authentication dialog

The **OA Authentication** dialog is displayed when you try to generate a report and you do not have a connection to the required OA. This dialog prompts you for a destination OA, user ID, and password, which are required before authentication can take place.

The buttons are:

- **OK** completes the connection and closes the dialog.
- **Cancel** stops the connection attempt and closes the dialog.

For an illustration of the **OA Authentication** dialog, see the figure "OA Authentication dialog" (page 43).

Figure 7
OA Authentication dialog

Save Report to File dialog

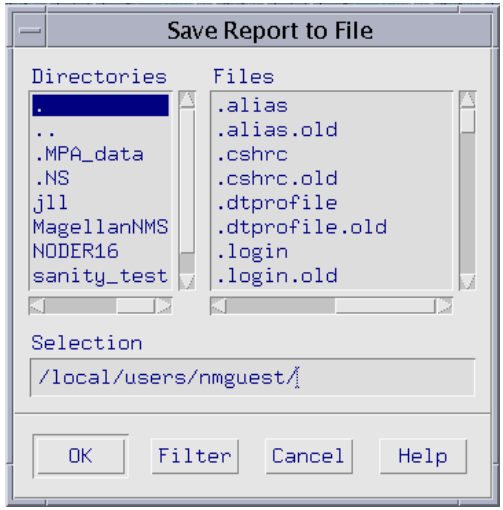
The **Save Report to File** dialog lets you specify the name of a file for saving the current report output.

The buttons are:

- **OK** saves your report in the file you specify and closes the dialog.
- **Filter** lets you choose what files are listed.
- **Cancel** closes the dialog without saving your report.

For an illustration of the **Save Report to File** dialog, see the figure "Save Report to File dialog" (page 44).

Figure 8
Save Report to File dialog



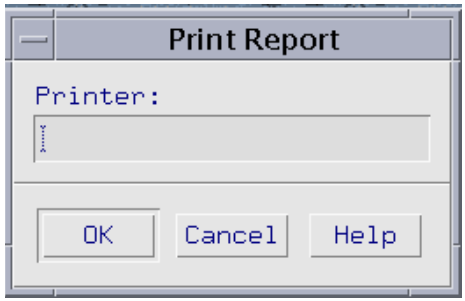
Print Report dialog

The **Print Report** dialog lets you enter a printer name when you print a report. The **Print Report** dialog has the following buttons:

- **OK** prints the report and closes the dialog.
- **Cancel** closes the dialog without printing the report.

For an illustration of the **Print Report** dialog, see the figure "Print Report dialog" (page 45).

Figure 9
Print Report dialog



DPN Inventory Reports tool procedures

See the following sections for information on **DPN Inventory Reports** tool procedures:

- "Producing reports using the DPN Inventory Reports tool window" (page 45)
- "Producing reports using a command line" (page 46)

Producing reports using the DPN Inventory Reports tool window

You can select the OA, module, and report from the **DPN Inventory Reports** tool window. You need to establish a connection to an OA or module before you can produce a report.

1 On the **DPN Inventory Reports**l window, fill in the **OA** and the **and/or Module** fields.

If you specify only the OA, the report is produced for all modules in the specified group. Subordinate OAs are traversed, with modules under them also reported on.

If you specify only the module, the report is produced only for the specified module.

Note: You cannot produce a report until you fill in either the **OA** or the **and/or Module** fields.

2 From the **Options** menu, deselect **Append to existing text** if you want the new report output to replace existing report output. By default, **Append to existing text** is selected.

3 From the **Options** menu, select **Generate CSV output** if you want to save the new report output as CSV data. By default, **Generate CSV output** is deselected.

4 From the **Reports** menu, select a report.

If no connection exists to the required OA, the **OA Authentication** dialog opens.

In the **OA Authentication** dialog, enter the **Destination OA**, **User ID**, and **Password** and click **OK**.

When a valid connection exists, the report is created and appears in the report area.

Producing reports using a command line

You can use a command line to produce reports independently of the graphical user interface. The report output goes to stdout. The command syntax is:

```
/<pathname>/<report_script_name>
   -oa <oa_name> [-cap <capability> -pwd <password]
   [-csv] [-h] [module(s)]
```

where:

`capability` is a user ID for creating a connection to the required OA. You must specify the -cap option when there is no connection to the required OA.

`-csv` formats the report output in CSV format.

`-h` displays online help for this command.

`module(s)` is the name(s) of the DPN module(s) on which you want to report. This field is not case-sensitive.

`oa_name` is the name of the OA on which you want to report. This field is not case-sensitive.

`password` is the password for creating a connection to the required OA. You must specify the -pwd option when there is no connection to the required OA.

`pathname` is the directory where the report script resides.

`report_script_name` is the script name of the report that you need to produce. The script names of available reports are specified in the configuration file dpnrep.reports using the option *scriptReport <report_script_name>*. See "Configuration file format" (page 38) for more information.

Note: All command options must appear before the module names.

Examples

The following command is used to produce the **DPN SCR Report** for specified RMs. The directory containing the report scripts that come with the Preside Multiservice Data Manager (MDM) software is used. The report is produced using a new connection and the output is formatted in CSV format.

```
/opt/MagellanNMS/lib/macros/nms/dpnscrrep -oa mainoa
-cap capcmd -pwd cappwd -csv RM1 RM2 RM3
```

The following command is used to produce the **DPN Full Module Report** for all modules. The report is produced using an existing connection.

```
/opt/MagellanNMS/lib/macros/nms/dpnmodrep -oa mainoa
```

Using the keyboard

You can produce any DPN inventory report by using its command accelerator, which is displayed in the **Reports** menu.

In addition, the **DPN Inventory Reports** tool provides the following keyboard shortcuts:

- Ctrl+s for Save as
- Ctrl+p for Print
- Ctrl+e for Exit

Some characters in menus and in menu items have an underscore (_). These characters are mnemonics that you can use instead of using the mouse. Use the Meta key in combination with the mnemonics.

Examples

Meta+f on the **DPN Inventory Reports** tool window opens the **File** menu.

Meta+c on the **Edit** menu is the same as Copy.

Appendix A
Passport Inventory Reports

This appendix provides examples of the reports that come with the Passport Inventory Reports tool. See the following sections for information on these reports:

Available Passport Groups and Modules (pplistrep)

This report lists the available Passport modules and groups by querying the HGDS server.

The following example shows the Available Passport Groups and Modules report.

```
        Available Passport Groups and Modules
-----------------------------------------------------

                      Server: bhars836
                        Date: Tue Feb 15 11:53:35 GMT 2000

 Group: ALPHA
-------------------
        BHARY145
        BUNGLE
        GEORGE
        ZIPPY

 Group: HARLOW
-------------------
        BHARY12C
        BHARY134
        BHARY136
        BHARY144
        BHARY46D
        BHARY472
        BHARY491
        BHARY492
        BHARY49C
        BHARY7F9
        BHARY7FE

------------------------------ done ---------------------
```

Passport Full Module Report (ppmodrep)

This report provides a full inventory of a Passport module, including the module name, node ID, NAMS ID, network ID, routing ID, module ID, and model. In addition, it contains information about the file system and disks and all of the information contained in the Passport Card Inventory and Passport Trunk and DPNGate reports.

The following example shows a Passport Full Module Report.

```
                    Passport Full Module Report
------------------------------------------------------------------------
                                  Server: bhars836
                                    Date: Tue Mar 28 16:29:08 BST 2000


     Node Name: GEORGE
       Node ID: 2
       NAMS ID: 7002
    Network ID: 1
    Routing ID: 7
     Module ID: 2
Software Level: BE00S9B
         Slots: 16

Card Type               Inserted         Serial #         Product Code   LP
---- ----------------   ---------------- --------------   ------------   -------
0    CP                 CP               NNTM03013KM3     NTFN33AA-08    Lp/0
1    2pDS3cAal          2pDS3cAal        15XM1            ""             Lp/1
2    V35                V35              FT003876         NTBP16DB-01    Lp/2
3    V11                V11              FT003896         NTBP38EA-01    Lp/3
4    3pE1Atm            3pE1Atm          NNTM03004WVC     NTFP32AB-01    Lp/4
5    1pE1V              1pE1V            PPSN003099       NTFP43AB-03    Lp/5
6    2pJ6MAtm           2pJ6MAtm         NNTM03004NYK     NTFP58AB-01    Lp/6
7    4pDS1Aal1          4pDS1Aal1        NNTM030089NR     NTFP80AB-01    Lp/7
8    3pDS3Atm           3pDS3Atm         NNTM03012CDF     NTFP18DA-02    Lp/8
9    2pJ6MAtm           2pJ6MAtm         NNTM03004NYG     NTFP58AB-01    Lp/6
10   4pE1Aal1           4pE1Aal1         NNTM03011ZGD     NTFP82AC-01    Lp/10
11   12mVspAs1          12mVspAs1        ""               NTFN87AB-06    Lp/11
12   none               none             None             None
13   4pDS1Aal1          4pDS1Aal1        NNTM03014B6P     NTEP80AC-04    Lp/12
14   4pE1Aal1           4pE1Aal1         NNTM03011D9M     NTFP82AA-05    Lp/14
15   CP                 none             None             None
```

```
Trunk     Type      M. Speed   M. Delay   Remote Name  Remote Endpoint
                    (bits/s)   (msec)
--------- --------- ---------- ---------- ------------ -------------------- - -
Trk/1     PORS               0        0.0
Trk/2     PORS         1918000        1.4              EM/ZIPPY TRK/2
Trk/3     PORS               0        0.0
Trk/4     PORS               0        0.0
Trk/31    PORS               0        0.0
Trk/60    PORS  Atm    1152000        1.0              EM/HARRY TRK/31
Trk/801   PORS  Atm    6144000        0.3 Zippy        EM/ZIPPY TRK/801
Trk/802   PORS  Atm    6144000        0.3 Zippy        EM/ZIPPY TRK/802
Trk/803   PORS  Atm    6144000        0.3 Zippy        EM/ZIPPY TRK/803

File System
--------------
  Volume Name: GEORGE
  Active Disk: Fs
 Synchronized: unSynchronized
     Capacity: 811122688 bytes
   Free Space: 232079360 bytes
        Usage: 71 %

         Disk: Disk/0
  Volume Name: GEORGE
     Capacity: 811122688 bytes
   Free Space: 232079360 bytes
   Bad Blocks: 0 %

------------------------------ done -----------------------------------
```

Passport Card Inventory (ppcardrep)

This report provides a full card inventory for a Passport module. You can sort and filter the report output by card type. The following information is displayed for each card: module name, card number, configured card type, inserted card type, card serial number, product code, and logical processor.

The following example shows a Passport Card Inventory report.

```
                        Passport Card Inventory
------------------------------------------------------------------------

                                  Server: bhars836
                                    Date: Tue Feb 15 11:55:49 GMT 2000


Node         Card Type             Inserted         Serial #       Product Code  LP
------------ ---- ---------------- ---------------- -------------- ------------  ------
GEORGE       0    CP               CP               NNTM03013KM3   NTFN33AA-08   Lp/0
GEORGE       1    2pDS3cAal        2pDS3cAal        15XM1          ""            Lp/1
GEORGE       2    V35              V35              FT003876       NTBP16DB-01   Lp/2
GEORGE       3    V11              V11              FT003896       NTBP38EA-01   Lp/3
GEORGE       4    3pE1Atm          3pE1Atm          NNTM03004WVC   NTFP32AB-01   Lp/4
GEORGE       5    1pE1V            1pE1V            PPSN003099     NTFP43AB-03   Lp/5
GEORGE       6    2pJ6MAtm         2pJ6MAtm         NNTM03004NYK   NTFP58AB-01   Lp/6
GEORGE       7    4pDS1Aal1        4pDS1Aal1        NNTM030089NR   NTFP80AB-01   Lp/7
GEORGE       8    3pDS3Atm         3pDS3Atm         NNTM03012CDF   NTFP18DA-02   Lp/8
GEORGE       9    2pJ6MAtm         2pJ6MAtm         NNTM03004NYG   NTFP58AB-01   Lp/6
GEORGE       10   4pE1Aal1         4pE1Aal1         NNTM03011ZGD   NTFP82AC-01   Lp/10
GEORGE       11   12mVspAal        12mVspAal        ""             NTFN87AB-06   Lp/11
GEORGE       12   none             none             None           None
GEORGE       13   4pDS1Aal1        4pDS1Aal1        NNTM03014B6P   NTFP80AC-04   Lp/12
GEORGE       14   4pE1Aal1         4pE1Aal1         NNTM03011D9M   NTFP82AA-05   Lp/14
GEORGE       15   CP               none             None           None
HARRY        0    CP               CP               NNTM030018PS   NTBP12CA-03   Lp/0
HARRY        1    DS1              DS1              FT002261       NTBP19DA-01   Lp/1
HARRY        2    4pDS1Aal1        4pDS1Aal1        NNTM03011VY8   NTFP80AC-01   Lp/2
HARRY        3    2pJ6MAtm         2pJ6MAtm         NNTM03002W60   NTFP58AA-02   Lp/3
HARRY        4    V11              V11              FT003986       NTBP38EA-01   Lp/4

------------------------------ done ----------------------------------
```

Passport Trunk and DPNGate Report (pptrkrep)

This report provides information about trunks and DPN gateways. The following information is displayed for each trunk: trunk name, trunk type, measured speed, measured delay, configured remote name, and current remote endpoint component.

The following information is displayed for each DPN gateway: DPN gateway name, gateway type, measured speed, measured delay, configured remote NAMS ID, and current remote endpoint component.

The following example shows a Passport Trunk report.

```
                          Passport Trunk Report
------------------------------------------------------------------------
                                    Server: bhars836
                                      Date: Tue Feb 15 11:56:08 GMT 2000


Node Name:  GEORGE  (in group: ALPHA)
------------------------------------------------------------------------

Trunk     Type      M. Speed   M. Delay   Remote Name  Remote Endpoint
                    (bit/s)    (msec)
--------- --------- ---------- ---------- ------------ ------------------
Trk/1     PORS               0        0.0
Trk/2     PORS         1917000        1.6              EM/ZIPPY TRK/2
Trk/3     PORS               0        0.0
Trk/4     PORS               0        0.0
Trk/31    PORS               0        0.0
Trk/41    PORS  Atm          0        0.0
Trk/60    PORS  Atm    1152000        1.0              EM/HARRY TRK/31
Trk/111   PORS  Atm          0        0.0 OXFORD
Trk/112   PORS  Atm          0        0.0 OXFORD
Trk/113   PORS  Atm          0        0.0 OXFORD
Trk/121   PORS  Atm    9984000        0.3 HARRY        EM/HARRY TRK/421
Trk/122   PORS  Atm    9984000        0.2 HARRY        EM/HARRY TRK/422
Trk/123   PORS  Atm    9984000        0.2 HARRY        EM/HARRY TRK/423
Trk/801   PORS  Atm    6144000        0.3 Zippy        EM/ZIPPY TRK/801
Trk/802   PORS  Atm    6144000        0.3 Zippy        EM/ZIPPY TRK/802
Trk/803   PORS  Atm    6144000        0.3 Zippy        EM/ZIPPY TRK/803

------------------------------ done ------------------------------------
```

Passport Software Report (ppsoftrep)

This report provides an inventory of the available and active software on a Passport module. Additionally, if more than one Passport node is reported, the report generates two summaries:

- Active Software Version Summary
- Software Version On Disk Summary

The Passport Software Report displays the name, version, any installed patches, and status for each application that is found.

The following example shows a Passport Software Report with the two summary reports.

```
                    Passport Software Report
-------------------------------------------------------------------
                    Server: wcary204
                      Date: Thursday November  8 13:49:26 EST 2001
 Node Name:  ROME  (in group: MDMLAB)
-------------------------------------------------------------------
   Application          Version(Patch)                Status
   -------------------- -------------------------     ------
   aal1Ces              BD0218A
   aal1Ces              BD0226A
   atmBearerService     BD01A
   atmBearerService     BD0216A
   atmBearerService     BD0218A
   atmBearerService     BD0226A                       active
   atmNetworking        BD01A
   atmNetworking        BD0216A
   atmNetworking        BD0218A
   atmNetworking        BD0226A                       active
   base                 BD01A
   base                 BD0216A
   base                 BD0218A
   base                 BD0226A                       active
   base                 CB0359A
   bridge               BD01A
   bridge               BD0216A
   bridge               BD0218A
   bridge               BD0226A                       active
```

```
frameRelay          BD01A
frameRelay          BD0216A
frameRelay          BD0218A
frameRelay          BD0226A                    active
inwBase             BD01A
inwBase             BD0216A
inwBase             BD0218A
inwBase             BD0226A                    active
ip                  BD01A
ip                  BD0216A
ip                  BD0218A
ip                  BD0226A                    active
ipx                 BD01A
ipx                 BD0216A
ipx                 BD0218A
ipx                 BD0226A                    active
netSentry           BD01A
netSentry           BD0216A
netSentry           BD0218A
netSentry           BD0226A                    active
networking          BD01A
networking          BD0216A
networking          BD0218A
networking          BD0226A                    active
serviceTrace        BD0218A
serviceTrace        BD0226A
sna                 BD01A
sna                 BD0216A
sna                 BD0218A
sna                 BD0226A                    active
switchedAccess      BD01A
switchedAccess      BD0216A
switchedAccess      BD0218A
switchedAccess      BD0226A                    active
testTools           BD01A
testTools           BD0216A
testTools           BD0218A
testTools           BD0226A                    active
trunks              BD01A
trunks              BD0216A
trunks              BD0218A
trunks              BD0226A                    active
trunks              CA0226A
```

```
 vns                 BD01A
 vns                 BD0216A
 vns                 BD0218A
 vns                 BD0226A                       active
 vtds                BD01A
 vtds                BD0216A
 vtds                BD0218A
 vtds                BD0226A                       active
 wanDte              BD01A
 wanDte              BD0216A
 wanDte              BD0218A
 wanDte              BD0226A                       active


Node Name:  ATHENS  (in group: MDMLAB)
-------------------------------------------------------------------------

 Application         Version(Patch)               Status
 ------------------- ---------------------------  ------
 aal1Ces             CB0031B
 aal1Ces             CB02S3E
 aal1Ces             CC0067A                       active
 atmNetworking       CB0031B
 atmNetworking       CB02S3E
 atmNetworking       CC0067A                       active
 atmNetworking       UWM34AEd
 base                CB0031B
 base                CB02S3E
 base                CC0067A                       active
 base                UWM34AEd
 frameRelay          CB0031B
 frameRelay          CB02S3E
 frameRelay          CC0067A                       active
 frameRelay          UWM34AEd
 ip                  CB0031B
 ip                  CB02S3E
 ip                  CC0067A                       active
 ip                  UWM34AEd
 networking          CB0031B
 networking          CB02S3E
 networking          CC0067A                       active
 networking          UWM34AEd
```

```
Active Software Version Summary
-------------------------------------------------------------------

 Application          Version(Patch)                 Number
 --------------------   ----------------------------   ------


Software Version On Disk Summary
-------------------------------------------------------------------

 Application          Version(Patch)                 Number
 -------------------    ----------------------------   ------


------------------------------ done -----------------------------------
```

Passport Frame Relay Services Report (ppfrrep)

This report provides an inventory of the Frame Relay services and connections that are available on a Passport module. The following information is displayed for each Frame Relay service: interface name, logical processor, customer ID, LMI type, and DNA.

The following information is displayed for each Frame Relay connection that is found: DLCI name, connection type, CIR, EIR, rate enforcement status, rate adaptation status, remote DNA, and remote DLCI.

The following example shows a Passport Frame Relay Services Report.

```
 Passport Frame Relay Services Report
-------------------------------------------------------------------
                                    Server: bhars836
                                      Date: Tue Feb 15 11:56:47 GMT 2000

Node Name:  GEORGE  (in group: ALPHA)
-------------------------------------------------------------------

 Frame Relay Service: FrUni/30
   Logical Processor: Lp/3 X21/0
```

```
         Customer ID: 0
            LMI Type: none
                 DNA: x121 111170020030


DLCI Type CIR        EIR      Rate      Rate       Remote DNA        Rem.
          (bits/s)   (bits/s) Enforced  Adaptation                   DLCI
---- ---- --------- -------- --------- ---------- --------------------
50   pvc      64000        0 no        no         x121 111170010000  16
51   pvc      64000        0 no        no         x121 111170020000  16
52   pvc      64000        0 no        no         x121 111170030000  17
53   pvc      64000        0 no        no         x121 111170040000  17


 Frame Relay Service: FrUni/33
   Logical Processor: Lp/3 X21/3
         Customer ID: 0
            LMI Type: ansi
                 DNA: x121 111170020033

DLCI Type CIR        EIR      Rate      Rate       Remote DNA        Rem.
          (bits/s)   (bits/s) Enforced  Adaptation                   DLCI
---- ---- --------- -------- --------- ---------- --------------------
200  pvc      64000         0 yes       no         x121 111170010033 200

------------------------------ done ------------------------------------
```

Passport ATM Services Report (ppatmrep)

This report provides an inventory of the ATM services and connections that are available on a Passport module. The following information is displayed for each ATM service: AtmIf name and type, logical processor, customer ID, number of configured permanent VCCs and VPCs, number of active switched VCCs, number of troubled VCCs and VPCs, traffic shaping state, UPC state, and total admitted and available bandwidth.

The following information is displayed for each ATM connection: VCC/VPC name, connection type, service category, OAM segment type, transmit side traffic type and QoS, receive side traffic type and QoS, traffic shaping and UPC shapes, and end/relay component name.

The following example shows a Passport ATM Services Report.

```
                    Passport ATM Services Report
------------------------------------------------------------------------
                                  Server: bcaruff9
                                    Date: Wed Apr 10 13:41:26 EDT 2002


Node Name:  ATLANTA  (in group: MDMLAB)
------------------------------------------------------------------------

         ATM Service: AtmIf/10 (PUNI)
   Logical Processor: Lp/1 DS3/0
Remote ATM Interface: n/a
         Customer ID: 0
           Permanent: VCCs: 5  VPCs: 2
            Switched: VCCs: 13
            Troubled: VCCs: 0  VPCs: 0
           Bandwidth: Admitted: 1089  Available: 103179

Vcc/Vpc       Type  Role  Categ. Tx  QOS  Rx  QOS  Shap UPC  End/Relay Point
------------- ----- ----- ------ --- ---- --- ---- ---- ---- --------------- - - -
Vcc/0.5       EP    conEP rtVbr  6        6        off  off  ATMIF/10 PNNI SIG
Vcc/0.18      EP    conEP rtVbr  8        8        off  off  ATMIF/10 PNNI RCC
Vcc/0.66      RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.207 RP
```

```
Vcc/0.67      RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.208 RP
Vcc/0.68      RP    segEP cbr    3        3        n/a  off  ATMIF/10 VCC/0.209 RP
Vcc/0.75      NRP   segEP ubr    3        3        off  off  ATMIF/11 VCC/0.75 NRP
Vcc/0.85      TM    unkn  ubr    1        1        n/a  n/a
Vcc/0.207     RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.66 RP
Vcc/0.208     RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.67 RP
Vcc/0.209     RP    segEP cbr    3        3        n/a  off  ATMIF/10 VCC/0.68 RP
Vcc/0.629     RP    segEP ubr    1        1        n/a  n/a  ATMIF/11 VCC/0.80 RP
Vcc/0.630     RP    segEP cbr    3        3        n/a  off  ATMIF/11 VCC/0.150 RP
Vcc/0.632     RP    segEP cbr    1        1        n/a  n/a  ATMIF/11 VCC/0.152 RP
Vcc/0.634     RP    segEP ubr    1        1        n/a  n/a  ATMIF/11 VCC/0.170 RP
Vcc/0.635     RP    segEP ubr    1        1        n/a  n/a  ATMIF/11 VCC/0.50 RP
Vcc/0.637     RP    segEP cbr    1        1        n/a  n/a  ATMIF/11 VCC/0.117 RP
Vcc/0.639     RP    segEP cbr    1        1        n/a  n/a  ATMIF/11 VCC/0.197 RP
Vcc/0.640     RP    segEP cbr    3        3        n/a  off  ATMIF/11 VCC/0.56 RP
Vpc/20        NRP   segEP ubr    3        3        off  off  ATMIF/11 VPC/20 NRP
Vpc/25        NRP   segEP ubr    3        3        off  off  ATMIF/11 VPC/25 NRP
Vpc/124       RP    segEP ubr    1        1        n/a  n/a  ATMIF/11 VPC/10 RP
Vpc/125       RP    segEP ubr    1        1        n/a  n/a  ATMIF/11 VPC/11 RP
Vpc/126       RP    segEP cbr    1        1        n/a  n/a  ATMIF/11 VPC/100 RP
Vpc/127       RP    segEP cbr    1        1        n/a  n/a  ATMIF/11 VPC/101 RP


         ATM Service: AtmIf/11 (PUNI)
   Logical Processor: Lp/1 DS3/1
Remote ATM Interface: n/a
         Customer ID: 0
           Permanent: VCCs: 4  VPCs: 5
            Switched: VCCs: 9
            Troubled: VCCs: 0  VPCs: 0
           Bandwidth: Admitted: 1083  Available: 103185

Vcc/Vpc       Type  Role  Categ. Tx  QOS  Rx  QOS  Shap UPC  End/Relay Point
------------- ----- ----- ------ --- ---- --- ---- ---- ---- --------------- - - -
Vcc/0.5       EP    conEP rtVbr  6        6        off  off  ATMIF/11 PNNI SIG
Vcc/0.18      EP    conEP rtVbr  8        8        off  off  ATMIF/11 PNNI RCC
Vcc/0.50      RP    segEP ubr    1        1        n/a  n/a  ATMIF/10 VCC/0.635 RP
Vcc/0.56      RP    segEP cbr    3        3        n/a  off  ATMIF/10 VCC/0.640 RP
Vcc/0.66      TM    unkn  cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.207 RP
```

```
Vcc/0.75      NRP   segEP ubr    3        3        off  off  ATMIF/10 VCC/0.75 NRP
Vcc/0.80      RP    segEP ubr    1        1        n/a  n/a  ATMIF/10 VCC/0.629 RP
Vcc/0.100     NEP   conEP ubr    1        1        n/a  n/a  ATMMPE/14 AC/1
Vcc/0.117     RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.637 RP
Vcc/0.150     RP    segEP cbr    3        3        n/a  off  ATMIF/10 VCC/0.630 RP
Vcc/0.152     RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.632 RP
Vcc/0.170     RP    segEP ubr    1        1        n/a  n/a  ATMIF/10 VCC/0.634 RP
Vcc/0.197     RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VCC/0.639 RP
Vpc/10        RP    segEP ubr    1        1        n/a  n/a  ATMIF/10 VPC/124 RP
Vpc/11        RP    segEP ubr    1        1        n/a  n/a  ATMIF/10 VPC/125 RP
Vpc/12        TM    unkn  ubr    1        1        n/a  n/a
Vpc/20        NRP   segEP ubr    3        3        off  off  ATMIF/10 VPC/20 NRP
Vpc/25        NRP   segEP ubr    3        3        off  off  ATMIF/10 VPC/25 NRP
Vpc/100       RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VPC/126 RP
Vpc/101       RP    segEP cbr    1        1        n/a  n/a  ATMIF/10 VPC/127 RP


------------------------------ done --------------------------------
```

Passport Frame Relay ATM Services Report (ppfratmrep)

This report provides an inventory of the Passport frame relay to ATM (FR-ATM) service and connections that are available on the Passport module. The report displays the following information for each FR-ATM service:

- FR-ATM name
- logical processor (Lp)

- customer ID
- Local Management Interface (LMI) type
- total admitted and available bandwidth

The report displays the following information for each frame relay to ATM connection that is found:

- DLCI name
- connection type
- committed information rate (CIR) in bits/s
- excess information rate (EIR) in bits/s
- rate enforcement status
- service category
- remote address
- remote CI
- next hop

The following example shows a Passport Frame Relay ATM Services report.

```
                Passport Frame Relay ATM Services Report
-----------------------------------------------------------------------

                                Server: bcaruff9
                                  Date: Wed Apr 10 14:24:34 EDT 2002
```

```
Node Name:  NAGANO  (in group: MDMLAB)
-----------------------------------------------------------------------



 Frame Relay ATM Service: FrAtm/20
       Logical Processor: Lp/2
             Customer ID: 0
                LMI Type: autoConfigure
              Bandwidth: Admitted: 0  Available: 0


DLCI Type CIR     EIR     Rate     Service  Remote Address
Remote   Next Hop
       (bits/s)  (bits/s)  Enforced  Category
CI
---- ---- ---------- ---------- ---------- -------- --------------------
-------------------- -------- -------------------------
16  siwf 56      n/a     off
AtmIf/12 Vcc/0.120 Nep
33  siwf 64000    n/a     on
AtmIf/10 Vcc/0.33 Nep
35  siwf 64      n/a     off
AtmIf/10 Vcc/0.139 Nep
36  siwf 64      n/a     off
AtmIf/10 Vcc/0.138 Nep
37  siwf 64      n/a     off
AtmIf/12 Vcc/0.175 Nep
49  siwf 64      n/a     off
AtmIf/10 Vcc/0.35 Nep
106 siwf 60      n/a     off
AtmIf/10 Vcc/0.106 Nep
107 siwf 58      n/a     off
AtmIf/10 Vcc/0.107 Nep
```

```
111  siwf 64000    n/a     off
AtmIf/12 Vcc/0.46 Nep

119  siwf 56      n/a     off
AtmIf/10 Vcc/0.36 Nep

127  siwf 64000    n/a     off
AtmIf/10 Vcc/0.151 Nep

128  siwf 128000   n/a     off
AtmIf/10 Vcc/0.152 Nep

129  siwf 64000      n/a        off        ubr
47139111111111111111111B00020480D000A00 0.166   AtmIf/10 Vcc/0.166 Ep

130  siwf 64000      n/a        off        ubr
47139111111111111111111A00020480D000A00 0.162   AtmIf/10 Vcc/0.293 Ep

132  siwf 128000     n/a        off        ubr
47139111111111111111111A00020480D000A00 0.163   AtmIf/10 Vcc/0.292 Ep

136  siwf 64      n/a     off
AtmIf/10 Vcc/0.136 Nep

137  siwf 0       n/a     off
AtmIf/10 Vcc/0.137 Nep

140  siwf 56      n/a     off
AtmIf/12 Vcc/0.35 Nep




 Frame Relay ATM Service: FrAtm/1000

       Logical Processor: Lp/2

             Customer ID: 0

                LMI Type: autoConfigure

              Bandwidth: Admitted: 0  Available: 0


DLCI Type CIR     EIR     Rate     Service  Remote Address
Remote   Next Hop
```

```
       (bits/s)   (bits/s)   Enforced   Category
CI

---- ---- ---------- ---------- ---------- -------- --------------------
-------------------- -------- -------------------------

16   siwf 40000     n/a      off
AtmIf/12 Vcc/0.115 Nep



------------------------------ done --------------------------------
```

Appendix B
DPN Inventory Reports

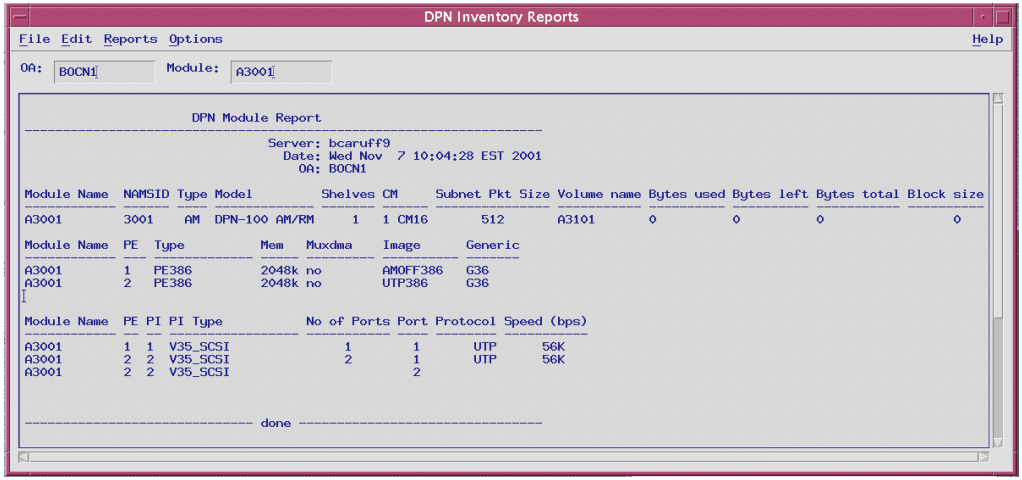
This appendix provides examples of the reports that come with the DPN Inventory Reports tool. See the following sections for information on these reports:

DPN Module Report (dpnmodrep)

This report provides a full inventory of a DPN module, including the node name, NAMS ID, node type, model, number of shelves, common memory, maximum subnet packet size, and information about disk capacity. In addition, it includes all of the information contained in the DPN PE Report and DPN PI Report.

For an example of a DPN Module Report, see the figure "DPN Module Report" (page 68).

Figure 10
DPN Module Report



DPN Module Summary (dpnsumrep))

This report carries all of the information contained in the DPN Module Report (module name, NAMS ID, node type, model, number of shelves, common memory, and maximum subnet packet size) except for the information from the DPN PE Report and DPN PI Report.

The following example shows a DPN Module Summary Report.

```
                          DPN Module Summary Report
------------------------------------------------------------------------
                               Server: whars062
                                 Date: Tuesday August 24 10:29:05 BST 1999
                                   OA: bnroa

Module Name  NAMSID Type Model          Shelves CM      Subnet Pkt Size
------------ ------ ---- ------------- ------- ------  ---------------
AM1          1002    AM  DPN-100 AM/RM     1   2 CM16         512

------------------------------ done ----------------------------------
```

DPN PE Report (dpnperep))

This report provides a full inventory of the PEs present in a DPN module. The following information is displayed for each PE that is found: module name, PE number, type, memory, Muxdma operating mode, image, and software generic.

The following example shows a DPN PE Report.

```
                              DPN PE Report
------------------------------------------------------------------------
                             Server: whars062
                               Date: Tuesday August 24 09:53:02 BST 1999
                                 OA: bnroa

Module Name       PE  Type          Mem   Muxdma    Image      Generic
----------------- --- ------------- ----- --------- ---------- -------
AM1               1   PE386         2048K no        AMOFF386   G36
AM1               2   PE386         2048K no        CSERV386   G36
AM1               3   PE386         2048K no        UTP386     G36
AM1               4   PE386         2048K no        FRELAY     G36
AM1               5   PE386         2048K no        FRELAY     G36
AM1               6   PE386         2048K no        X25DP386   G36
AM1               7   PE386         2048K no        X25DP386   G36
AM1               8   PE386         2048K no        X25B386    G36
AM1               9   PE386         2048K no        X25B386    G36
AM1               10  PE386          863K no        PELFG1     G36
AM1               11  PE386          863K no        PELFG1     G36
AM1               12  PE386         2048K no        UTP386     G36
AM1               13  PE386         2048K no        FRELAY     G36
AM1               14  PE386         2048K no        AMOFF386   G36

------------------------------ done ------------------------------------
```

DPN PI Report (dpnpirep)

This report provides a full inventory of the PIs present in a DPN module. The following information is displayed for each PI that is found: module name, PE number, PI number, type, and number of ports.

The following information is displayed for each port: port number, protocol, and configured speed.

The following example shows a DPN PI Report.

```
                                DPN PI Report
-----------------------------------------------------------------------
                                  Server: whars062
                                    Date: Tuesday August 24 09::57 BST 1999
                                      OA: bnora

Module Name   PE PI  PI Type          No of Ports  Port Protocol  Speed (bps)
------------ -- -- ---------------- ----------- ------------- --------
AM1           1  1  V35_SCSI              0
AM1           2  2  V36_FOUR_PORT         0
AM1           3  3  V35_SCSI              2         1        UTP       64K
AM1           3  3  V35_SCSI                        2        UTP     19.2K
AM1           4  4  PRIMARY_RATE          1         1        FRS     2048K
AM1           5  5  PRIMARY_RATE          1         1        FRS     2048K
AM1           6  6  PRIMARY_RATE          1         1   LAPD/X25       64K
AM1           7  7  PRIMARY_RATE          1         1   LAPD/X25       64K
AM1           8  8  V24_FOUR_PORT         3         1        X25      9600
AM1           8  8  V24_FOUR_PORT                   2        X25      9600
AM1           8  8  V24_FOUR_PORT                   3        X25      9600
AM1           9  9  V24_FOUR_PORT         4         1        X25      9600
AM1           9  9  V24_FOUR_PORT                   2        X25      9600
AM1           9  9  V24_FOUR_PORT                   3        X25      9600
AM1           9  9  V24_FOUR_PORT                   4        X25      9600
AM1           10 10 V24_EIGHT_PORT        8         1        ITI      9600
AM1           10 10 V24_EIGHT_PORT                  2        ITI      9600
AM1           10 10 V24_EIGHT_PORT                  3        ITI      9600
AM1           10 10 V24_EIGHT_PORT                  4        ITI      9600
AM1           10 10 V24_EIGHT_PORT                  5        ITI      1200
AM1           10 10 V24_EIGHT_PORT                  6        ITI      1200
AM1           10 10 V24_EIGHT_PORT                  7        ITI      9600
AM1           10 10 V24_EIGHT_PORT                  8        ITI      9600
```

```
AM1          11 11 V24_FOUR_PORT        4        1       ITI     1200
AM1          11 11 V24_FOUR_PORT                 2       ITI     9600
AM1          11 11  V24_FOUR_PORT                3      ITI      9600
AM1          11 11  V24_FOUR_PORT                4      ITI      9600
AM1          12 12  V35_SCSI             2       1      UTP       64K
AM1          12 12  V35_SCSI                     2      UTP     19.2K
AM1          13 13  V24_EIGHT_PORT       2       1      FRS      256K
AM1          13 13  V24_EIGHT_PORT       2       1      FRS      256K
AM1          14 14  V35_SCSI            0

------------------------------ done -----------------------------------
```

DPN SCR Report (dpnscrrep)

This report provides a table of source call router (SCR) entries for an RM module. The following information is displayed for each SCR entry: network plan indicator (NPI), destination DNA, RID (for intra-network calls) or NID (for inter-network calls), and RID/NID value.

The following example shows a DPN SCR Report.

```
                              DPN SCR Report
------------------------------------------------------------------------
                                      Server: bhars786
                                        Date: Tue Feb 17 11:31:09 GMT 1999
                                          OA: BNRMDI


Module: RM1
SCR: 2

NPI  DNA                  Type Value
---- -------------------- ---- -----
x121 1111009 1             RID    91
x121 1111009 2             RID    92
x121 1111009 3             RID    93
x121 1111100 1             RID     1
x121 1111100 20904         NID  1351
x121 1111100 2             RID     1
x121 1111100 3             RID     1
x121 1111123 44            NID  1234
x121 1111123 4             NID  1234
x121 1111200 1             RID     2
x121 1111200 2             RID     1
x121 1111234 5             NID  2000
x121 1111300               RID     3
x121 1111666 6             RID     3
x121 1111700 1             RID     7
x121 1111700 2             RID     7
x121 111197                NID   250
x121 2352                  NID  1400
x121 2353                  NID  1450
x121 2371987               NID  1371
x121 2371                  NID  1000
x121 245612                NID  1000
```

```
x121 245659                RID     4
x121 2468                  NID  1100
x121 2624111 1             RID     1
x121 3030                  NID   300
x121 3143                  NID  1550
x121 3333                  RID    10
x121 3456122 00            NID  1000
x121 345659                RID     4
x121 4270                  NID   427
x121 4280                  NID   428
x121 4321                  NID  1500
x121 7999                  NID  1000
x121 8999                  RID     1
e164 0628                  DSR     1
e164 0753                  DSR     2

------------------------------ done -----------------------------------
```

DPN Network Links and Trunks Report (dpnnetrep)

This report provides a list of the network links and trunks that are available on a DPN module. The following information is displayed for each network link and trunk: PI, PO, speed, Muxdma operating mode of the PE, PE number, and destination node NAMS ID.

The following example shows a DPN Network Links and Trunks Report.

```
                  DPN Network Links and Trunks Report
------------------------------------------------------------------------
                                    Server: bhars786
                                      Date: Tue Feb 17 11:31:36 GMT 1999
                                        OA: BNRMDI


Module: AM1

Network Links:

PI  PO Speed (bps) Muxdma PE  Destination (Namsid)
--  -- ----------- ------ --  --------------------
 3   1       64K    no      3  2002
12   1       64K    no     12  1001

------------------------------ done ----------------------------------
```

Preside Multiservice Data Manager

Device Inventory Tools

User Guide

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