



Preside Multiservice Data Manager

Device Inventory Tools

User Guide

241-6001-808

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User Guide

Publication: 241-6001-808

Document status: Standard

Document version: 14.3RSUP

Document date: December 2003

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Printed in Canada

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Publication history

December 2003

14.3RSUP Standard
Commercial availability

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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” (page 11)
- “What you need to know” (page 11)
- “How this document is organized” (page 12)
- “What’s new in this document” (page 12)
- “Related documents” (page 14)

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 7000, 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 are no changes in this document 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” (page 15)
- “Inventory Reports configuration files” (page 16)
- “Customizing and creating reports” (page 16)
- “Starting the Inventory Reports tools” (page 16)

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 7000 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:

- “Passport Inventory Reports tool” (page 19)
- “DPN Inventory Reports tool” (page 35)
- “Inventory Reports configuration files” (page 16)
- “Customizing and creating reports” (page 16)
- “Starting the Inventory Reports tools” (page 16)

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 7000, Passport 15000, and Passport 20000 series modules.

In this chapter, you can find the following information:

- “About the Passport Inventory Reports tool” (page 19)
- “Starting the Passport Inventory Reports tool” (page 20)
- “Customizing and creating Passport Inventory Reports” (page 21)
- “Passport inventory reports configuration file” (page 21)
- “Passport Inventory Reports tool window” (page 23)
- “Passport Inventory Reports tool dialogs” (page 26)
- “Passport Inventory Reports tool procedures” (page 30)
- “Using the keyboard” (page 32)

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)

- “Passport Inventory Reports tool window” (page 23)
- “Passport Inventory Reports tool dialogs” (page 26)
- “Passport Inventory Reports tool procedures” (page 30)
- “Using the keyboard” (page 32)

Starting the Passport Inventory Reports tool

In the **Preside MDM** window, select **Configuration -> Passport Devices -> 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/PPI  
-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"
```

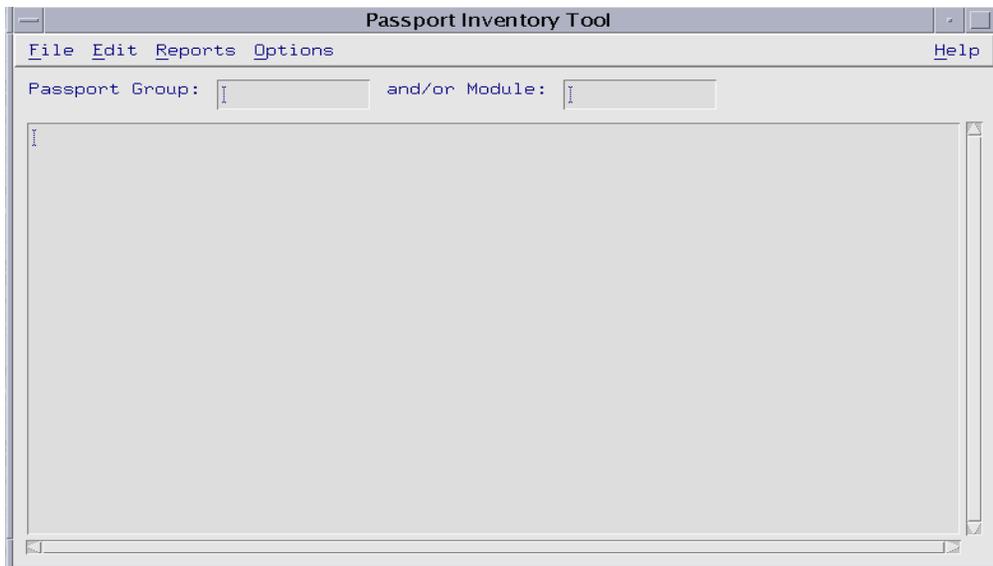
Passport Inventory Reports tool window

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.

For 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

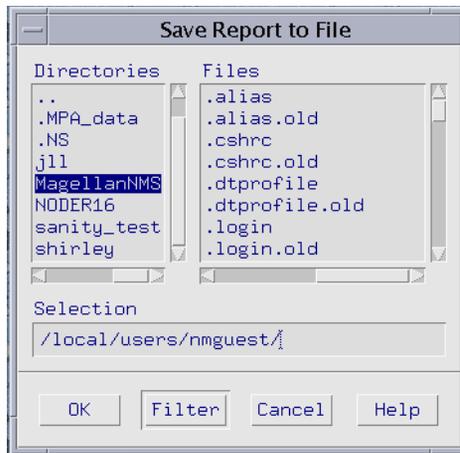
The **Save Report to File** dialog lets you specify the name of a file for saving the current report output

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” (page 35)
- “Starting the DPN Inventory Reports tool” (page 36)
- “Customizing and creating DPN inventory reports” (page 37)
- “DPN inventory reports configuration file” (page 37)
- “DPN Inventory Reports tool window” (page 39)
- “DPN Inventory Reports tool dialogs” (page 42)
- “DPN Inventory Reports tool procedures” (page 45)
- “Using the keyboard” (page 47)

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)

- “DPN Inventory Reports tool dialogs” (page 42)
- “DPN Inventory Reports tool procedures” (page 45)
- “Using the keyboard” (page 47)

Starting the DPN Inventory Reports tool

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

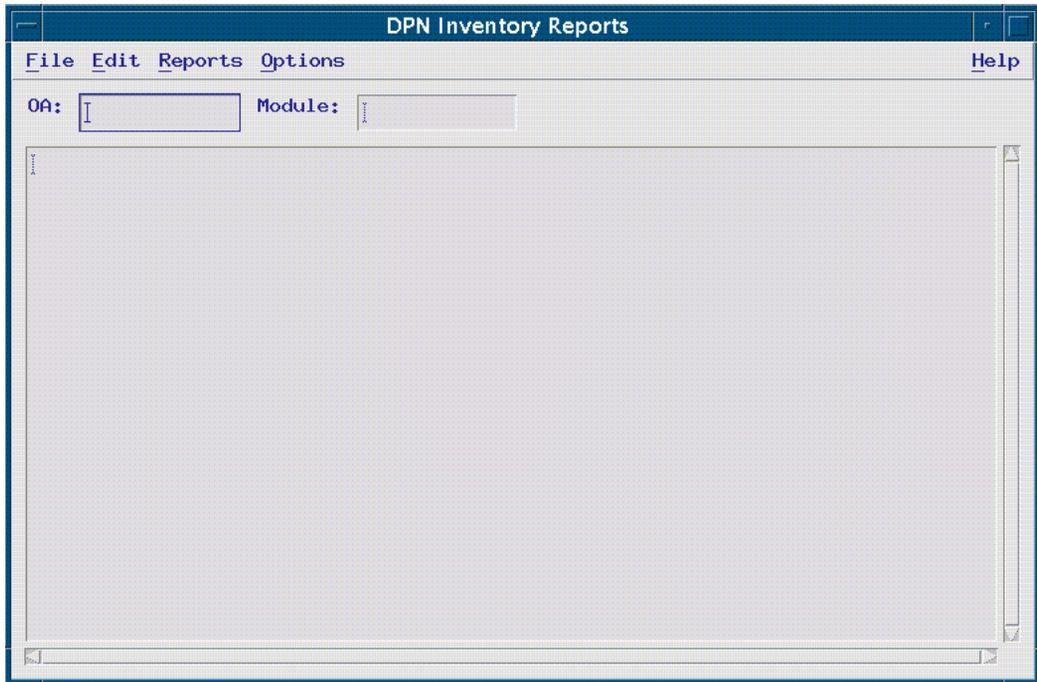
```
createReportBtn DPN_PE_REPORT \
"PE INVENTORY" \
"P" "Ctrl<Key>p" "Ctrl+p" \
"scriptReport /home/nmsuser/bin/dpnperep"
```

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

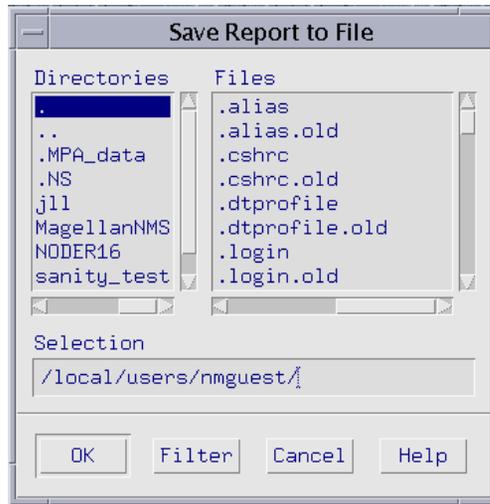
The **Save Report to File** dialog lets you specify the name of a file for saving the current report output.

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



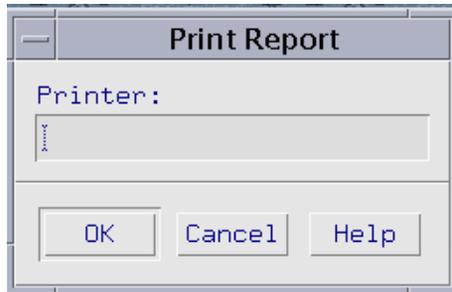
Print Report dialog

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** 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)” (page 50)
- “Passport Full Module Report (ppmodrep)” (page 51)
- “Passport Card Inventory (ppcardrep)” (page 53)
- “Passport Trunk and DPNGate Report (pptrkrep)” (page 54)
- “Passport Software Report (ppsoftrep)” (page 55)
- “Passport Frame Relay Services Report (ppfrrep)” (page 58)
- “Passport ATM Services Report (ppatmrep)” (page 60)
- “Passport Frame Relay ATM Services Report (ppfratmrep)” (page 62)

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 4pDS1Aa11	4pDS1Aa11	NNTM030089NR	NTFP80AB-01	Lp/7
8 3pDS3Atm	3pDS3Atm	NNTM03012CDF	NTFP18DA-02	Lp/8
9 2pJ6MAtm	2pJ6MAtm	NNTM03004NYG	NTFP58AB-01	Lp/6
10 4pE1Aa11	4pE1Aa11	NNTM03011ZGD	NTFP82AC-01	Lp/10
11 12mVspAs1	12mVspAs1	" "	NTFN87AB-06	Lp/11
12 none	none	None	None	
13 4pDS1Aa11	4pDS1Aa11	NNTM03014B6P	NTEP80AC-04	Lp/12
14 4pE1Aa11	4pE1Aa11	NNTM03011D9M	NTFP82AA-05	Lp/14
15 CP	none	None	None	

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Trunk	Type	M. Speed (bits/s)	M. Delay (msec)	Remote Name	Remote Endpoint
Trk/1	PORS		0		
Trk/2	PORS	1918000	1.4		EM/ZIPPY TRK/2
Trk/3	PORS		0		
Trk/4	PORS		0		
Trk/31	PORS		0		
Trk/60	PORS	Atm 1152000			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 4pDS1Aa11	4pDS1Aa11	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 4pE1Aa11	4pE1Aa11	NNTM03011ZGD	NTFP82AC-01	Lp/10
GEORGE	11 12mVspAa1	12mVspAa1	" "	NTFN87AB-06	Lp/11
GEORGE	12 none	none	None	None	
GEORGE	13 4pDS1Aa11	4pDS1Aa11	NNTM03014B6P	NTFP80AC-04	Lp/12
GEORGE	14 4pE1Aa11	4pE1Aa11	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 4pDS1Aa11	4pDS1Aa11	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
aallCes	BD0218A	
aallCes	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

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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
aallCes	CB0031B	
aallCes	CB02S3E	
aallCes	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 (bits/s)	EIR (bits/s)	Rate Enforced	Rate Adaptation	Remote DNA	Rem. 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 (bits/s)	EIR (bits/s)	Rate Enforced	Rate Adaptation	Remote DNA	Rem. 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

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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

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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

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(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)” (page 68)
- “DPN Module Summary (dpnsumrep)” (page 69)
- “DPN PE Report (dpnperep)” (page 70)
- “DPN PI Report (dpnpirep)” (page 71)
- “DPN SCR Report (dpnscrep)” (page 73)
- “DPN Network Links and Trunks Report (dpnnetrep)” (page 75)

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

The screenshot shows a window titled "DPN Inventory Reports" with a menu bar (File, Edit, Reports, Options) and a Help button. Below the menu bar, there are input fields for "OA:" (BDCN1) and "Module:" (A3001). The main content area displays a "DPN Module Report" for node A3001. The report includes server information (Server: bcaruff9, Date: Wed Nov 7 10:04:28 EST 2001, OA: BDCN1) and three tables of data.

Module Name	NAMSID	Type	Model	Shelves	CM	Subnet Pkt. Size	Volume name	Bytes used	Bytes left	Bytes total	Block size
A3001	3001	AM	DPN-100 AM/RM	1	1 CM16	512	A3101	0	0	0	0

Module Name	PE	Type	Mem	Maxdma	Image	Generic
A3001	1	PE386	2048k	no	AMOFF386	G36
A3001	2	PE386	2048k	no	UTP386	G36

Module Name	PE	PI	PI Type	No of Ports	Port	Protocol	Speed (bps)
A3001	1	1	V35_SCSI	1	1	UTP	56K
A3001	2	2	V35_SCSI	2	1	UTP	56K
A3001	2	2	V35_SCSI		2		

----- done -----

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 (dnperep))

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             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     3             2           X25           9600
AM1          8   8   V24_FOUR_PORT     3             3           X25           9600
AM1          9   9   V24_FOUR_PORT     4             1           X25           9600
AM1          9   9   V24_FOUR_PORT     4             2           X25           9600
AM1          9   9   V24_FOUR_PORT     4             3           X25           9600
AM1          9   9   V24_FOUR_PORT     4             4           X25           9600
AM1          10  10  V24_EIGHT_PORT    8             1           ITI           9600
AM1          10  10  V24_EIGHT_PORT    8             2           ITI           9600
AM1          10  10  V24_EIGHT_PORT    8             3           ITI           9600
AM1          10  10  V24_EIGHT_PORT    8             4           ITI           9600
AM1          10  10  V24_EIGHT_PORT    8             5           ITI           1200
AM1          10  10  V24_EIGHT_PORT    8             6           ITI           1200
AM1          10  10  V24_EIGHT_PORT    8             7           ITI           9600
AM1          10  10  V24_EIGHT_PORT    8             8           ITI           9600

```

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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 (dpnscrep)

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

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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

Release: R14.3

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Publication: 241-6001-808
Document status: Standard
Document version: 14.3RSUP
Document date: December 2003
Printed in Canada

