



Preside Multiservice Data Manager

Documentation

Guide

241-6001-000

Preside Multiservice Data Manager

Documentation

Guide

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Commercial availability except for MPE support which will be available in a future release.

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About this document

This document describes the Preside Multiservice Data Manager documentation library. Information on related libraries is also included in this document.

The following topics are discussed in this section:

- “Who should read this document and why” (page 9)
- “What you need to know” (page 9)
- “How this document is organized” (page 10)
- “What’s new in this document” (page 10)
- “Text conventions” (page 10)

Who should read this document and why

This document is for anyone who will be referring to any of the documents in the Preside Multiservice Data Manager documentation library.

What you need to know

This document is a guide for using the Preside Multiservice Data Manager documentation library effectively.

In this NTP, references to Passport refer to Passport 7400 and 15000 series of devices. Any exception to this is noted in the documentation.

How this document is organized

This document contains the following sections:

- “About the MDM documentation library” (page 13) presents the format and structure of the library and summarizes its contents.
- “Accessing NTPs” (page 23) explains how the Preside Multiservice Data Manager (MDM) NTPs are delivered and accessed.

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*
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

Uppercase and lowercase letters that appear in UNIX commands and parameters must be matched exactly. The system matches upper and lowercase characters differently.

- |

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 /).

Chapter 1

About the MDM documentation library

This section describes the packaging and content of the Preside Multiservice Data Manager (MDM) library: how the library is divided into binders and publications. The content of each publication is described in summary.

This section contains the following:

- “What the documentation library contains” (page 13)
- “What the MDM documentation library does not contain” (page 14)
- “Nortel Networks technical publication” (page 14)
- “Library description” (page 15)

What the documentation library contains

The Preside Multiservice Data Manager documentation library consists of the following binders:

- “Introduction and Installation 1” (page 16)
- “Introduction and Installation 2” (page 16)
- “Administration 1” (page 17)
- “Administration 2” (page 17)
- “Fault Management” (page 17)
- “Configuration Management 1” (page 18)
- “Configuration Management 2” (page 18)
- “Configuration Management 3” (page 19)

- “Configuration Management 4” (page 19)
- “Data Collection Management 1” (page 20)
- “Data Collection Management 2” (page 20)
- “Performance Management” (page 20)
- “Customization and Open Interfaces 1” (page 20)
- “Customization and Open Interfaces 2” (page 21)
- “Device Integration” (page 21)
- “Database” (page 22)
- “Security” (page 22)

In addition, the library includes a Supplement, issued with each major and RSUP release, and shipped to customers with the NTPs. This document contains migration considerations, hardware and software supported, and CR (Change Request) fixes.

What the MDM documentation library does not contain

Passport has its own library. Refer to the following document for more information.

- NN10600-001 *Nortel Networks Multiservice Switch 7400/15000/20000 Basics: Customer Documentation*

Nortel Networks technical publication

This section defines a Nortel Networks technical publication (NTP) and describes the packaging of NTPs.

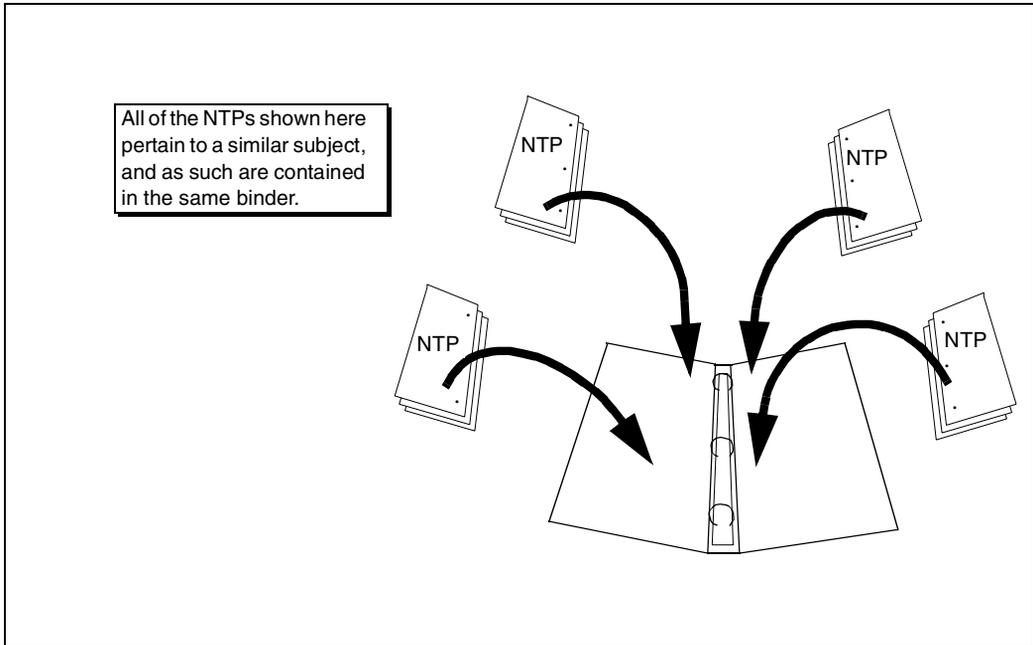
NTP: a definition

Throughout the Preside Multiservice Data Manager documentation library you will see the term NTP. An NTP is a Nortel Networks technical publication. It is a module of information about a particular subject. Each NTP has a unique identification number, for example, 241-6001-303.

How NTPs are packaged

The Preside Multiservice Data Manager (MDM) documentation library is available in hardcopy (paper) in 3-ring mini binders. Each binder contains information pertaining to some aspect of MDM. Refer to the figure “NTPs are contained in binders” (page 15).

Figure 1
NTPs are contained in binders



Library description

The following sections list and briefly describe the NTPs contained in each Preside Multiservice Data Manager binder.

Introduction and Installation 1

The Introduction and Installation 1 binder provides product fundamentals, as well as guides for Preside Multiservice Data Manager (MDM) installation. This binder contains the following NTPs:

- 241-6001-001 *What's New in Preside MDM Documentation* describes the major changes to documentation in the current software release.
- 241-6001-000 *Preside MDM Documentation Guide* (this document) describes the packaging and content of the MDM documentation library.
- 241-6001-801 *Preside MDM Overview* describes the MDM workstation and user interface, the available MDM applications, administrative tools, and general utilities.
- 241-6001-804 *Preside MDM Workstation Utilities User Guide* details the MDM utility tools and how to use them.
- 241-6001-805 *Preside MDM List of Terms* provides a list of terms and their definitions.

Introduction and Installation 2

The Introduction and Installation 2 binder provides product fundamentals, as well as guides for Preside Multiservice Data Manager (MDM) installation. This binder contains the following NTPs:

- 241-6001-808 *Preside MDM Device Inventory Tools User Guide* describes the Passport and DPN inventory tools.
- 241-6001-809 *Preside MDM EPIC Reference Guide* describes the Enhanced Passport Interface Controller (EPIC) command line interface.
- 241-6001-100 *Preside MDM Installation* provides instructions for installing an MDM workstation for the first time using a set of configuration scripts.
- 241-6001-101 *Preside MDM Engineering Guide* provides engineering information for planners to use in deploying MDM workstations in a network.
- 241-6001-102 *Preside MDM Planning Guide* provides planning information for network planners and engineers to deploy MDM workstations for network management.

- 241-6001-122 *Preside MDM Using MDM Toolset and Operator Client Interfaces* provides an overview of the Toolset and Operator Client environments.

Administration 1

The Administration 1 binder contains guides for Preside Multiservice Data Manager (MDM) administrators. This binder contains the following NTPs:

- 241-6001-015 *Preside MDM Network Model Administrator Guide* provides an overview of a network model and details the administrative tasks, macros, and utilities that support the network model.
- 241-6001-303 *Preside MDM Administrator Guide* provides procedures for MDM system administration tasks.

Administration 2

The Administration 2 binder contains a server reference guide for Preside Multiservice Data Manager (MDM) administrators. This binder contains the following NTP:

- 241-6001-310 *Preside MDM Server Reference Guide* provides a reference to the MDM servers.

Fault Management

The Fault Management binder contains guides for fault management. This binder contains the following NTPs:

- 241-6001-011 *Preside MDM Fault Management User Guide* provides operator procedures for fault management tasks.
- 241-6001-013 *Preside MDM Remote Network Communication System User Guide* provides operator procedures for logging in to a Preside Multiservice Data Manager (MDM) workstation from a VT100-compatible terminal.
- 241-6001-501 *Preside MDM Alarms Reference Guide* describes the alarms coming from various MDM servers and proxy agents and the alarms coming from MDM-supported SNMP devices, such as EdgeLink MUX, Shasta 5000 BSN, and Passport 4400.

Configuration Management 1

The Configuration Management 1 binder contains guides for configuration management with a Passport focus. This binder contains the following NTPs:

- 241-6001-022 *Preside MDM Network Reporting System User Guide* provides procedures for generating reports on network service configurations.
- 241-6001-023 *Preside MDM Configuration Management for Passport User Guide* provides procedures for configuring services on Passport nodes.
- 241-6001-207 *Preside MDM Passport Provisioning API Reference Guide* explains how to use the Passport Provisioning Application Programming Interface (API) to write custom applications for provisioning Passport nodes from the Preside Multiservice Data Manager workstation.
- 241-6001-308 *Preside MDM Network Configuration Database for DPN Administrator Guide* provides procedures for detecting non-unique data values for components that require network-wide uniqueness.
- 241-6001-807 *Preside MDM Network Backup and Restore* provides procedures for using the Passport/SNMP Backup and Restore tool to back up and restore service data on Passport and Passport 4400/4460 devices.

Configuration Management 2

The Configuration Management 2 binder contains guides for configuration management with a provisioning focus. This binder contains the following NTPs:

- 241-6001-600 *Preside MDM Service Provisioning for ATM User Guide* describes an ATM service provisioning application that lets you provision asynchronous transfer mode (ATM) permanent virtual circuits (PVCs) between two or more Passport nodes. The application lets you do this in one provisioning session and from a single user interface.
- 241-6001-603 *Preside MDM Service Provisioning for Frame Relay User Guide* describes how to provision Frame Relay permanent virtual circuits (PVC) between two Passport nodes. The application lets you do this in one provisioning session and from a single user interface.

Configuration Management 3

The Configuration Management 3 binder contains guides for configuration management with a nodal provisioning focus. This binder contains the following NTPs:

- 241-6001-610 *Preside MDM Nodal Provisioning User Guide* describes how use the Nodal Provisioning tool to provision components and selected services and to create service templates.
- 241-6001-611 *Preside MDM Nodal and Service Provisioning Reference Guide* provides sample provisioning sessions that show how you use the Nodal Provisioning, and service provisioning tools to provision certain services.
- 241-6001-616 *Preside MDM IP VPN Service Configuration User Guide*

Configuration Management 4

The Configuration Management 4 binder contains guides for configuration management with a DPN focus. This binder contains the following NTPs:

- 241-6001-012 *Preside MDM Configuration Management for DPN User Guide* provides procedures for configuring services on DPN-100 modules.
- 241-6001-204 *Preside MDM DPN Provisioning API Reference Guide* explains how to use the DPN Provisioning Application Programming Interface (API) to write custom applications for provisioning DPN switches from the Preside Multiservice Data Manager workstation.
- 241-6001-210 *Preside MDM DPN SNMP Agent User Guide* describes the interface to DPN network equipment through SNMP.
- 241-6001-304 *Preside MDM Configuration Management for DPN Administration* contains procedures for Preside Multiservice Data Manager Configuration management administration tasks.

Data Collection Management 1

The Data Collection Management 1 binder contains a guide for installing and using the Preside Multiservice Data Manager accounting and statistics data collection application. This binder contains the following NTPs:

- 241-6001-309 *Preside MDM Management Data Provider User Guide* provides procedures for installing, configuring, and administering the Management Data Provider (MDP).

Data Collection Management 2

The Data Collection Management 2 binder contains a format reference guide for the Preside Multiservice Data Manager accounting and statistics data collection application. This binder contains the following NTP:

- 241-6001-806 *Preside MDM MDP Data Formats for DPN Reference* provides descriptions of the DPN data formats supported by the Management Data Provider (MDP).
- 241-6001-810 *Preside MDM MDP Data Formats Reference* provides descriptions of the Passport data formats supported by the Management Data Provider (MDP)

Performance Management

The Performance Management binder contains a guide performance management in Preside Multiservice Data Manager. This binder contains the following NTP:

- 241-6001-031 *Preside MDM Performance Management User Guide* provides descriptions and procedures for using the DPN Performance Viewer and Data Viewer tools.

Customization and Open Interfaces 1

The Customization and Open Interfaces 1 binder contains programmer guides for Preside Multiservice Data Manager (MDM) Application Programming Interfaces (APIs). This binder contains the following NTPs:

- 241-6001-200 *Preside MDM Application Programming Interface Primer* provides customers and programmers with an overview of MDM Application Programming Interfaces (APIs).

- 241-6001-201 *Preside MDM Network Model API Reference Guide* explains how to use the Network Model Application Programming Interface (API) to write custom applications for the MDM workstation.
- 241-6001-203 *Preside MDM Alarm and Status API Reference Guide* explains how to use the MDM Alarm and Status Application Programming Interface (API) to write custom applications for the MDM workstation.
- 241-6001-209 *Preside MDM Provisioning Command Filter API for DPN* explains how to use the Provisioning Command Filter Application Programming Interface (API) to block provisioning commands.

Customization and Open Interfaces 2

The Customization and Open Interfaces 2 binder contains a programming guide for Preside Multiservice Data Manager (MDM) Embedded Programming Interface (EPI) and for customization. This binder contains the following NTPs:

- 241-6001-211 *Preside MDM Embedded Programming Interface Reference Guide* describes the MDM Embedded Programming Interface (EPI) and details the EPI commands for various scripting languages.
- 241-6001-301 *Preside MDM Customization Administrator Guide* provides customization procedures for MDM administrators.

Device Integration

The Device Integration binder contains guides for SNMP-managed devices. This binder contains the following NTPs:

- 241-6001-118 *Preside MDM SNMP Surveillance Adapter Guide* describes how to use the SNMP Surveillance Adapter to collect data from different devices. The SNMP Surveillance Adapter allows surveillance of SNMP devices to be fully data driven, and runs on a Solaris platform without HP OpenView.
- 241-6001-121 *Preside MDM Device Adapter Installation and Administration User Guide* describes the Preside Multiservice Data Manager (MDM) Device Adapter software and how to use it. The software provides Preside Multiservice Data Manager (MDM) Applications Platform tools with fault management from devices managed by MDM software.

Database

The Database binder contains documents associated with circuit management and the Preside Multiservice Data Manager (MDM) Administration Database. This binder contains the following NTPs:

- 241-6001-400 *Preside MDM Administration Database User Guide* provides an overview of the MDM database, including setup and configuration. This document also provides a description of the circuit management application and how to use it.
- 241-6001-405 *Preside MDM Administration Database Schema* This document contains the schema and schema description for the Administration Database.

Security

The Security binder contains documents associated with Passport and Preside Multiservice Data Manager (MDM) security. These NTPs are part of both the MDM and Passport documentation suites. This binder contains the following NTPs:

- NN10600-605 *Passport - MDM Network Security: Operations*. This document contains procedural and conceptual information for implementing network security.
- NN10600-606 *Passport - MDM Network Security: User Access Configuration*. This document contains procedural and conceptual information for configuring user access and permissions as part of network security measures.
- NN10600-607 *Passport - MDM Network Security: Secure Communications Configuration*. This document contains procedural and conceptual information for configuring secure communications between devices in a network.

Chapter 2

Accessing NTPs

This section describes how the Preside Multiservice Data Manager (MDM) NTPs are accessed. It contains the following:

- “How the NTPs are delivered” (page 23)
- “Accessing the NTPs online” (page 26)

How the NTPs are delivered

All Preside Multiservice Data Manager (MDM) NTPs are available online in MDMHelp. MDMHelp is delivered with the software CD-ROM. Refer to 241-6001-100 *Preside MDM Installation* for installation directions.

In addition, NTPs are also available in hardcopy. They can be ordered through your Nortel Networks representative.

The following table “NTP list for R15.1” (page 23) lists all MDM NTPs.

Table 1
NTP list for R15.1

NTP number and title
Volume 1 Introduction and Installation (1)
241-6001-001 <i>What's New in Preside MDM Documentation</i>
241-6001-000 <i>Preside MDM Documentation Guide</i>
241-6001-801 <i>Preside MDM Overview</i>
(Sheet 1 of 4)

Table 1 (Continued)
NTP list for R15.1

NTP number and title
241-6001-804 <i>Preside MDM Workstation Utilities User Guide</i>
241-6001-805 <i>Preside MDM List of Terms</i>
Volume 2 Introduction and installation (2)
241-6001-808 <i>Preside MDM Device Inventory Tools User Guide</i>
241-6001-809 <i>Preside MDM EPIC Reference Guide</i>
241-6001-100 <i>Preside MDM Installation</i>
241-6001-101 <i>Preside MDM Engineering Guide</i>
241-6001-102 <i>Preside MDM Planning Guide</i>
241-6001-122 <i>Preside MDM Using MDM Toolset and Operator Client Interfaces</i>
Volume 3 Administration (1)
241-6001-015 <i>Preside MDM Network Model Administrator Guide</i>
241-6001-303 <i>Preside MDM Administrator Guide</i>
Volume 4 Administration (2)
241-6001-310 <i>Preside MDM Server Reference Guide</i>
Volume 5 Fault Management
241-6001-011 <i>Preside MDM Fault Management User Guide</i>
241-6001-013 <i>Preside MDM Remote Network Communication System User Guide</i>
241-6001-501 <i>Preside MDM Alarms Reference Guide</i>
Volume 6 Configuration Management (1)
241-6001-022 <i>Preside MDM Network Reporting System User Guide</i>
241-6001-023 <i>Preside MDM Configuration Management for Passport User Guide</i>
241-6001-207 <i>Preside MDM Passport Provisioning API Reference Guide</i>
241-6001-308 <i>Preside MDM Network Configuration Database for DPN Administrator Guide</i>
(Sheet 2 of 4)

Table 1 (Continued)
NTP list for R15.1

NTP number and title
241-6001-807 <i>Preside MDM Network Backup and Restore</i>
Volume 7 Configuration Management (2)
241-6001-600 <i>Preside MDM Service Provisioning for ATM User Guide</i>
241-6001-603 <i>Preside MDM Service Provisioning for Frame Relay User Guide</i>
Volume 8 Configuration Management (3)
241-6001-610 <i>Preside MDM Nodal Provisioning User Guide</i>
241-6001-611 <i>Preside MDM Nodal and Service Provisioning Reference Guide</i>
241-6001-616 <i>Preside MDM IP VPN Service Configuration User Guide</i>
Volume 9 Configuration Management (4)
241-6001-012 <i>Preside MDM Configuration Management for DPN User Guide</i>
241-6001-204 <i>Preside MDM DPN Provisioning API Reference Guide</i>
241-6001-210 <i>Preside MDM DPN SNMP Agent User Guide</i>
241-6001-304 <i>Preside MDM Configuration Management for DPN Administration</i>
Volume 10 Data Collection Management (1)
241-6001-309 <i>Preside MDM Management Data Provider User Guide</i>
Volume 11 Data Collection Management (2)
241-6001-806 <i>Preside MDM MDP Data Formats for DPN Reference</i>
241-6001-810 <i>Preside MDM MDP Data Formats Reference</i>
Volume 12 Performance Management
241-6001-031 <i>Preside MDM Performance Management User Guide</i>
Volume 13 Customization and Open Interfaces (1)
241-6001-200 <i>Preside MDM Application Programming Interface Primer</i>
241-6001-201 <i>Preside MDM Network Model API Reference Guide</i>
(Sheet 3 of 4)

Table 1 (Continued)
NTP list for R15.1

NTP number and title
241-6001-203 <i>Preside MDM Alarm and Status API Reference Guide</i>
241-6001-209 <i>Preside MDM Provisioning Command Filter API for DPN</i>
Volume 14 Customization and Open Interfaces (2)
241-6001-211 <i>Preside MDM Embedded Programming Interface Reference Guide</i>
241-6001-301 <i>Preside MDM Customization Administrator Guide</i>
Volume 15 Device Integration
241-6001-118 <i>Preside MDM SNMP Surveillance Adapter Guide</i>
241-6001-121 <i>Preside MDM Device Adapter Installation and Administration User Guide</i>
Volume 16 Database
241-6001-400 <i>Preside MDM Administration Database User Guide</i>
241-6001-405 <i>Preside MDM Administration Database Schema</i>
Volume 17 Security
NN10600-605 <i>Passport - MDM Network Security: Operations</i>
NN10600-606 <i>Passport - MDM Network Security: User Access Configuration</i>
NN10600-607 <i>Passport - MDM Network Security: Secure Communications Configuration</i>
(Sheet 4 of 4)

Accessing the NTPs online

The following procedure explains how to access the Preside Multiservice Data Manager (MDM) NTPs online.

- 1 Start the MDM tools:

```
/opt/MagellanNMS/bin/nmstool &
```

The application main window opens.

- 2 In the window, select System -> Utilities -> Online Documentation.

The Netscape browser opens with online documentation.

- 3** In the left pane of the browser, select a document suite name.

The left pane displays the documentation categories.

- 4** In the left pane, select a document name.

A table of contents appears. You can now select a topic from the document.

- 5** In the left pane, select the topic you want to view.

The topic details display in the right frame.

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