NORTEL NETWORKS

Preside Multiservice Data Manager

Documentation

Guide

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Preside Multiservice Data Manager

Documentation

Guide

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Contents

About this document 9
Who should read this document and why 9
What you need to know 9
How this document is organized 10
What's new in this document 10
Text conventions 10

Chapter 1
About the MDM documentation library 13
What the documentation library contains 13
What the MDM documentation library does not contain 14
Nortel Networks technical publication 14
NTP: a definition 14
How NTPs are packaged 15
Library description 15
Introduction and Installation 1 16
Introduction and Installation 2 16
Administration 1 17
Administration 2 17
Fault Management 17
Configuration Management 1 18
Configuration Management 2 18
Configuration Management 3 19
Configuration Management 4 19
Data Collection Management 1 20
Data Collection Management 2 20

Performance Management 20
Customization and Open Interfaces 1 21
Customization and Open Interfaces 2 21
Device Integration 22
Database 22
Security 23

Chapter 2
Accessing MDM NTPs **25**
How the MDM NTPs are delivered 25
Accessing the MDM NTPs online 29

Index **31**

About this document

This document describes the Preside Multiservice Data Manager (MDM) 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 (MDM) documentation library.

What you need to know

This document is a guide for using the Preside Multiservice Data Manager (MDM) 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 MDM NTPs" (page 25) 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

  In the 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.

- |

  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 (MDM) 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 21)
- "Customization and Open Interfaces 2" (page 21)
- "Device Integration" (page 22)
- "Database" (page 22)
- "Security" (page 23)

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.

- 241-5701-001 *Passport 7400, 15000, 20000 Documentation Guide*

Nortel Networks technical publication

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

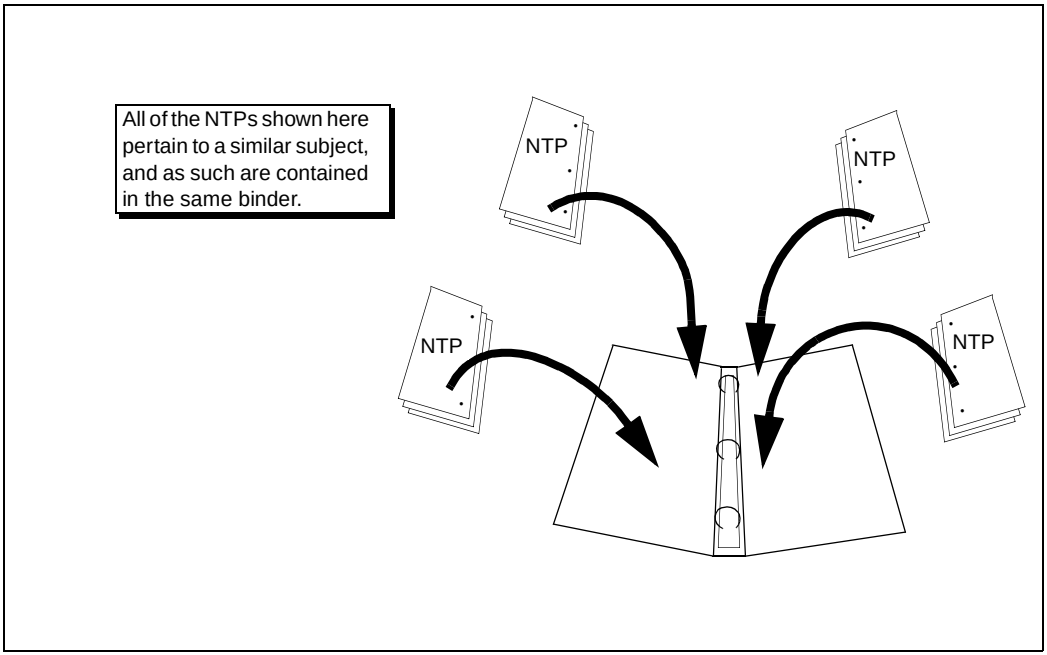
NTP: a definition

Throughout the Preside Multiservice Data Manager (MDM) 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 (MDM) 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 Installer Guide* 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.

- 241-6001-117 *Preside MDMWeb Installation Guide* contains installation information for MDMWeb, which provides fault management through a web interface.

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.
- 241-6001-030 *Preside MDMWeb User Guide* contains user interface information for MDMWeb, which provides fault management through a web interface.
- 241-6001-501 *Preside MDM Proxy Alarms Reference Guide* describes the alarms coming from various MDM servers and proxy agents.

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 switches from the Preside Multiservice Data Manager (MDM) workstation.
- 241-6001-308 *Preside MDM Network Configuration Database Administrator Guide* provides procedures for detecting non-unique data values for components that require network-wide uniqueness.
- 241-6001-807 *Preside MDM Passport/SNMP Devices Backup and Restore User Guide* 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 switches. The application lets you do this in one provisioning session and from a single user interface.
- 241-6001-601 *Preside MDM Service Provisioning for IP VPN Global Update User Guide* describes the IP VPN global update tool, which allows you to set up and to perform global updating provisioning of a

customer Internet Protocol (IP) virtual private network (VPN). The tool allows you to provision an IP VPN through a graphical user interface or a command line interface.

- 241-6001-602 *Preside MDM Service Provisioning for CES SVC User Guide* describes how to use the Nortel Networks Preside Multiservice Data Manager (MDM) CES SVC service provisioning tool.
- 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 switches. 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 to install and use the Nodal Provisioning application.
- 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 (MDM) 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 Administrator Guide* contains procedures for MDM 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 (MDM) 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 (MDM) accounting and statistics data collection application. This binder contains the following NTP:

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

Performance Management

The Performance Management binder contains a guide performance management in Preside MDM. 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 the 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 Reference Guide* 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 the 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:

- 241-6001-109 *Preside MDM Passport 4400 Integration Guide* describes the integration of the Passport 4400 series of devices into MDM for fault management. Models 4430, 4450/55, and 4460 are supported.
- 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 Applications Platform tools with fault management from devices managed by MDM software.
- 241-6001-502 *Preside MDM Device Alarms Reference Guide* describes the alarms coming from MDM-supported SNMP devices, such as EdgeLink MUX, Shasta 5000 BSN, and Passport 4400.

Database

The Database binder contains documents associated with circuit management and the MDM Administration Database. This binder contains the following NTPs:

- 241-6001-400 *Preside MDM Administration Database User Guide* provides an overview of the Preside Multiservice Data Manager (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 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 MDM NTPs

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

- "How the MDM NTPs are delivered" (page 25)
- "Accessing the MDM NTPs online" (page 29)

How the MDM NTPs are delivered

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

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

The following table "MDM NTP list for R14.3" (page 25) lists all MDM NTPs.

Table 1
MDM NTP list for R14.3

NTP number and title
Volume 1 Introduction and Installation (1)
241-6001-001 *What's New in Preside MDM Documentation*
241-6001-000 *Preside MDM Documentation Guide*
(Sheet 1 of 4)

Table 1 (continued)
MDM NTP list for R14.3

NTP number and title
241-6001-801 *Preside MDM Overview*
241-6001-804 *Preside MDM Workstation Utilities User Guide*
241-6001-805 *Preside MDM List of Terms*
Volume 2 Introduction and installation (2)
241-6001-808 *Preside MDM Device Inventory Tools User Guide*
241-6001-809 *Preside MDM EPIC Reference Guide*
241-6001-100 *Preside MDM Installer Guide*
241-6001-101 *Preside MDM Engineering Guide*
241-6001-102 *Preside MDM Planning Guide*
241-6001-117 *Preside MDMWeb Installation Guide*
Volume 3 Administration (1)
241-6001-015 *Preside MDM Network Model Administrator Guide*
241-6001-303 *Preside MDM Administrator Guide*
Volume 4 Admininstration (2)
241-6001-310 *Preside MDM Server Reference Guide*
Volume 5 Fault Management
241-6001-011 *Preside MDM Fault Management User Guide*
241-6001-013 *Preside MDM Remote Network Communication System User Guide*
241-6001-030 *Preside MDMWeb User Guide*
241-6001-501 *Preside MDM Proxy Alarms Reference Guide*
Volume 6 Configuration Management (1)
241-6001-022 *Preside MDM Network Reporting System User Guide*
241-6001-023 *Preside MDM Configuration Management for Passport User Guide*
241-6001-207 *Preside MDM Passport Provisioning API Reference Guide*
(Sheet 2 of 4)

Table 1 (continued)
MDM NTP list for R14.3

NTP number and title
241-6001-308 *Preside MDM Network Configuration Database Administrator Guide*
241-6001-807 *Preside MDM Passport/SNMP Devices Backup and Restore User Guide*
Volume 7 Configuration Management (2)
241-6001-600 *Preside MDM Service Provisioning for ATM User Guide*
241-6001-601 *Preside MDM Service Provisioning for IP VPN Global Update User Guide*
241-6001-602 *Preside MDM Service Provisioning for CES SVC User Guide*
241-6001-603 *Preside MDM Service Provisioning for Frame Relay User Guide*
Volume 8 Configuration Management (3)
241-6001-610 *Preside MDM Nodal Provisioning User Guide*
241-6001-611 *Preside MDM Nodal and Service Provisioning Reference Guide*
241-6001-616 *Preside MDM IP VPN Service Configuration User Guide*
Volume 9 Configuration Management (4)
241-6001-012 *Preside MDM Configuration Management for DPN User Guide*
241-6001-204 *Preside MDM DPN Provisioning API Reference Guide*
241-6001-210 *Preside MDM DPN SNMP Agent User Guide*
241-6001-304 *Preside MDM Configuration Management for DPN Administrator Guide*
Volume 10 Data Collection Management (1)
241-6001-309 *Preside MDM Management Data Provider User Guide*
Volume 11 Data Collection Management (2)
241-6001-806 *Preside MDM MDP Data Formats Reference Guide*
Volume 12 Performance Management
(Sheet 3 of 4)

Table 1 (continued)
MDM NTP list for R14.3

NTP number and title
241-6001-031 *Preside MDM Performance Management User Guide*
Volume 13 Customization and Open Interfaces (1)
241-6001-200 *Preside MDM Application Programming Interface Primer*
241-6001-201 *Preside MDM Network Model API Reference Guide*
241-6001-203 *Preside MDM Alarm and Status API Reference Guide*
241-6001-209 *Preside MDM Provisioning Command Filter API Reference Guide*
Volume 14 Customization and Open Interfaces (2)
241-6001-211 *Preside MDM Embedded Programming Interface Reference Guide*
241-6001-301 *Preside MDM Customization Administrator Guide*
Volume 15 Device Integration
241-6001-109 *Preside MDM Passport 4400 Integration Guide*
241-6001-118 *Preside MDM SNMP Surveillance Adapter Guide*
241-6001-121 *Preside MDM Device Adapter Installation and Administration User Guide*
241-6001-502 *Preside MDM Device Alarms Reference Guide*
Volume 16 Database
241-6001-400 *Preside MDM Administration Database User Guide*
241-6001-405 *Preside MDM Administration Database Schema*
Volume 17 Security
NN10600-605 *Passport - MDM Network Security: Operations*
NN10600-606 *Passport - MDM Network Security: User Access Configuration*
NN10600-607 *Passport - MDM Network Security: Secure Communications Configuration*
(Sheet 4 of 4)

Accessing the MDM 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 Nortel Networks Preside MDM window opens.

2 In the Preside MDM 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.

Index

A

accounting 20
administration 17, 18
  Configuration 20
  customization 21
  MDM 17
  network model 17
administration database 22
alarm and status API 21
alarms 17, 22
API 21
  alarm and status 21
  DPN provisioning 19
  network model 21
  Passport provisioning 18
  provisioning command filter 21
API primer 21
Application Programming Interface (API) 21
ATM end-to-end provisioning 18

B

Backup and Restore 18
binders 13, 15

C

circuit management application 22
command filter 21
Configuration administration 20
Configuration for DPN 19
Configuration for Passport 18
configuration management 18, 19
customization 21

D

data collection management 20
database 22
database schema 22
database schema description 22
delivery
  hardcopy 25
  of MDM NTPs 25
  online 25
Device Adapter application 22
device alarms 22
device integration 22
documentation library 13
DPN inventory tool 16
DPN provisioning 19
DPN provisioning API 19
DPN SNMP agent 20

E

Embedded Programming Interface (EPI) 21
engineering 16
EPI 21

F

fault management 17

G
global update 18

H
hardcopy delivery 25

I
installation 16
integration, Passport 4400 22
introduction 16
inventory tools 16
IP VPN global update 18

L
library, MDM 13
library, Passport 14
list of terms 16

M
Management Data Provider (MDP) 20
MDM administration 17
MDM alarms 17
MDM library 13
MDM NTPs 25
MDM server reference 17
MDMWeb 17
MDP 20
MDP data formats 20

N
NCD 18
Network Configuration Database (NCD) 18
network model 17
network model API 21
Network Reporting System (NRS) 18
Nodal Provisioning 19
Nortel Networks technical publication 14
NRS 18
NTP 14
NTP number 14
NTP packaging 14

O
online access to NTPs 29
online delivery 25
open interface 21
ordering 25
overview 16

P
packaging, NTP 14
Passport 4400 integration 22
Passport inventory tool 16
Passport library 14
Passport provisioning 18
Passport provisioning API 18
Passport/SNMP Devices Backup and Restore 18
planning 16
provisioning
- IP VPN global update 18
- nodal 19
- service ATM PVC 18

provisioning command filter API 21
proxy alarms 17

R
Release Supplement 14
Remote Network Communication System (RNCS) 17
RNCS 17

S
servers, MDM 17
service provisioning, ATM PVC 18
SNMP agent, DPN 20
SNMP Surveillance Adapter 22
SNMP-managed devices 22
statistics 20
Supplement 14

U
utilities 16

W

what's new 16

Preside Multiservice Data Manager

Documentation

Guide

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