NØRTEL
NETWORKS

Preside Multiservice Data Manager

Using MDM Toolset and Operator Client Interfaces

241-6001-122

Preside Multiservice Data Manager

Using MDM Toolset and Operator Client Interfaces

Publication history

August 2004

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

Contents

Chapter 3
Common Tools Functionality   49

Appendix
Tool and environment support   53

Index   57

About this document

The following topics are discussed in this section:

- "Who should read this document and why" (page 9)

- "How this document is organized" (page 9)

- "What's new in this document" (page 10)

- "Text conventions" (page 10)

- "Related documents" (page 11)

Who should read this document and why

Use this document if you are an operator and new to using the Preside Multiservice Data Manager (MDM). This document provides a summary of both Preside MDM user interfaces: MDM Toolsets and Operator Client. Basic startup procedures are also provided.

What you need to know

This document assumes that you have never used the MDM Toolset or Operator Client to start Preside Multiservice Data Manager (MDM) and that you are not familiar with product interfaces.

How this document is organized

This document contains the following sections:

- "Basic procedures" (page 13) provides basic startup procedures

- "MDM interfaces" (page 33) describes the FCAPS menu as it used in the MDM Toolset environment and Operator Client environment.

- "Tool and environment support" (page 53) provides a quick reference to tool support in both the MDM Toolset environment and Operator Client environment.

What's new in this document

This is a new document.

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

  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.

- ->

  A right-pointing arrow in a procedure indicates that a menu item has submenus from which you must choose. The appropriate submenu selection is shown immediately after the arrow.

- |

  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 document for related information:

- 241-6001-801 *Preside MDM Overview*

Chapter 1
Basic procedures

This section includes procedures for starting and stopping the Preside MDM using the MDN Toolset or Operator Client as well as for changing passwords and troubleshooting.

Navigation

Operator Client

MDM Toolset Startup

Changing centrally authenticated passwords

Troubleshooting

Starting Operator Client

Use this procedure to launch the Operator Client application from your Solaris workstation or from your Windows-based personal computer.

Prerequisites

- The Operator Client has an ethernet connection to an MDM User Administration Server (UAS).

  If the network connection between the Operator Client and the MDM User Administration Server includes a firewall, ports on the MDM may require configuration to enable access. For more information, see 241-6001-310 *Preside MDM Server Reference Guide*.

- You must know the IP address or the node name of your User Administration Server.

- A user identity has been created in the User Administration System by the Administrator. The user is configured to launch the MDM applications based upon their assigned permissions.

Procedure steps

1   If the Operator Client is a PC,

   a.   using WordPad, edit the PC file c:\WINNT\system32\drivers\etc\hosts to identify the MDM workstations on which the fault or configuration management servers exist. For each of the MDM workstations, add the following information: IP address, hostname, fully qualified hostname.

   For example,

   ```
   47.123.234.34 mysun mysun.lab.nortel.com
   ```

   b.   Close and save the file c:\WINNT\system32\drivers\etc\hosts.

2   In the address or location field of a web browser window, enter:

   http:// <administration server name>:8080/UI

   The JWS auto-download feature is disabled through the MDM JNLP file. If the workstation or PC does not have the proper JRE version, an error is displayed indicating the version of JRE needed to run Operator Client.

   Note: Operator Client does not try to auto-download the JRE from SUN.

Depending on your environment, one of the following Operator Client Launch windows open.
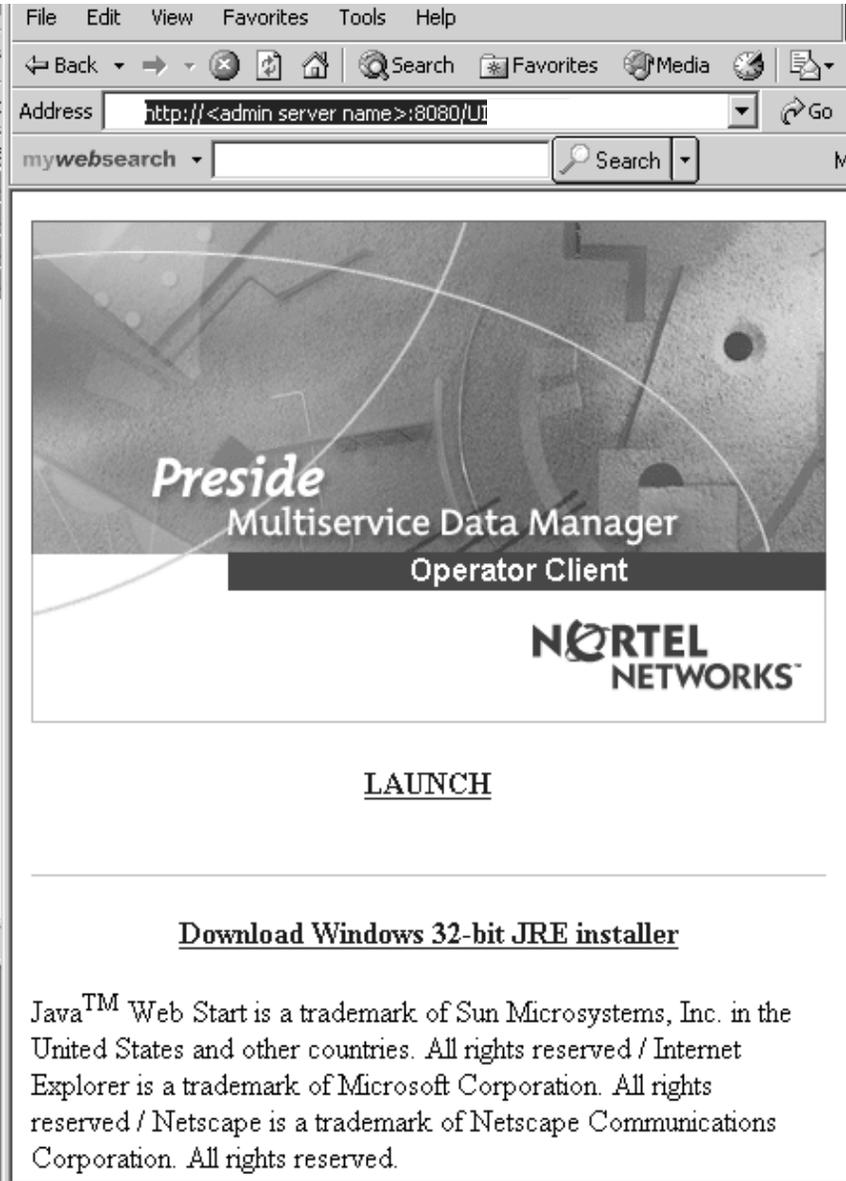
LAUNCH

Download Solaris 8 32-bit JRE installer

Download Solaris 8 64-bit JRE extensions installer

Java^{TM} Web Start is a trademark of Sun Microsystems, Inc. in the United States and other countries. All rights reserved / Internet Explorer is a trademark of Microsoft Corporation. All rights reserved / Netscape is a trademark of Netscape Communications Corporation. All rights reserved.

3   Make a selection from the table.

Starting Operator Client	Destination
for the first time	step 4
after a Windows or Solaris installer has been down loaded	step 7

4   If this Operator Client is a PC, click **Download Windows 32-bit JRE installer.**

If this Operator Client is a UNIX workstation, click **Download Solaris 8 32-bit JRE installer** or click **Download Solaris 8 64-bit JRE extensions installer**.

Note: For UNIX workstation users, your Administrator can indicate which JRE installer to use.

The File Download dialog opens.
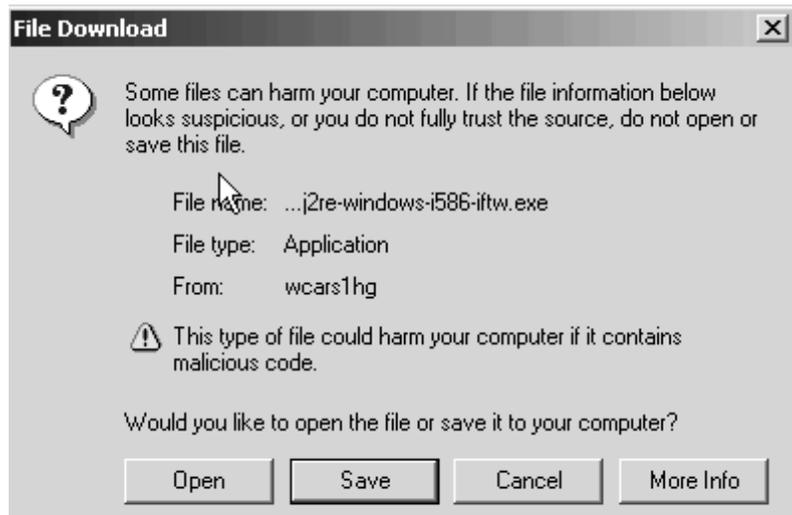
5   Click **Save**.

6   Run the jre executable (xxx.exe) to Install the JRE software.

If you are installing Operator Client on a PC, a dialog opens asking if you want a desktop icon for quick launch. Make an appropriate choice.

7   Click **LAUNCH** on the Operator Client launch menu.

The Java Web application starts. A progress Java Web Start dialog opens.
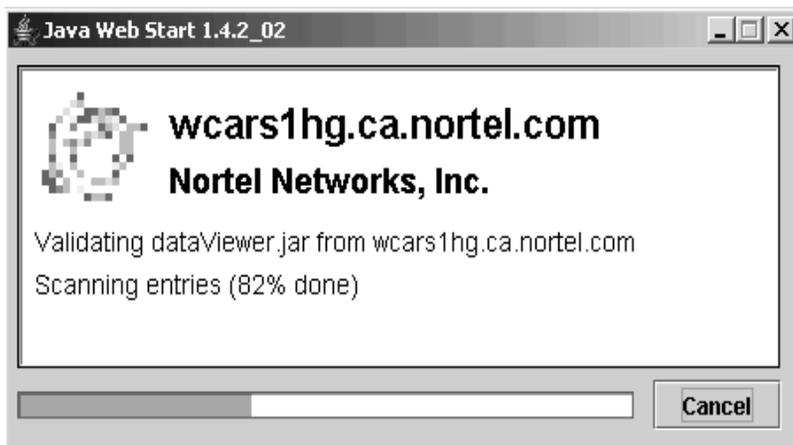
When complete, the Operator Client Login window opens.
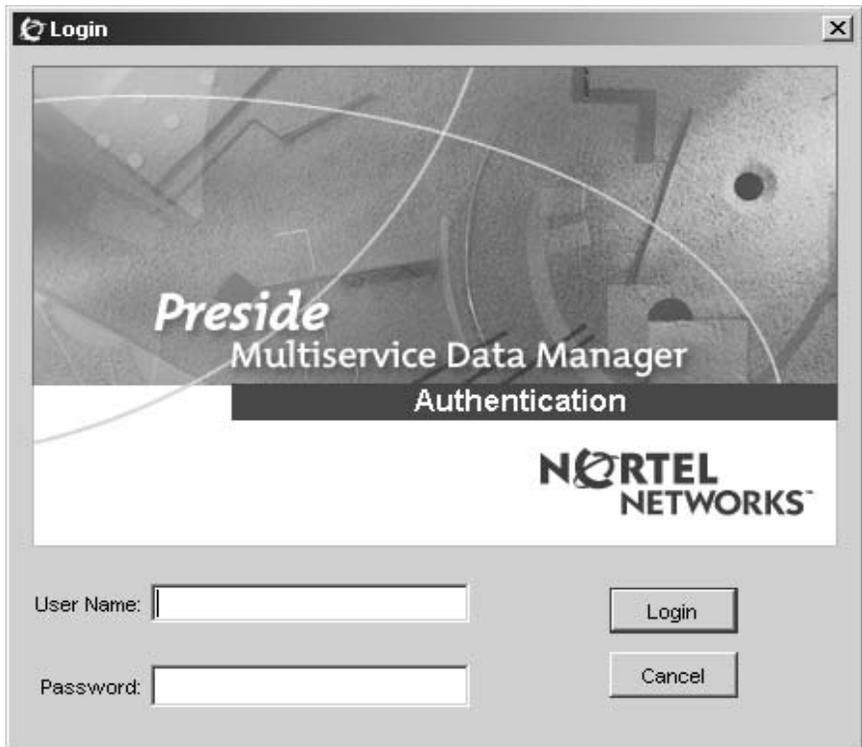
8   Enter your User Name and Password and click **Login**.

When your User Name and Password are authenticated, the Operator Client window opens. The menus and commands available on and from the Main Menu bar are determined by access control setup files on the User Administration server. For more information, see NN10600-605 *Passport - MDM Network Security: Operations*.

To change user preferences, see 241-6001-301 *Preside MDM Customization Administrator Guide*.

9 Select tools as required from the main menu.

Customizing the Netscape web browser

If Operator Client is using the Netscape web browser, use this procedure before using Operator Client applications.

Prerequisites

Procedure steps

1 Launch Netscape.

2 Select **Edit -> Preferences.**

The Preferences dialog opens.

3 Click **Navigator -> Applications.**

4 Click **New Type...**

5 In the Description of type field, type **jnlp file**.

6 If this MDM Operator Client is on a PC, in the **File extension** field, type **jnlp**.

7 If this MDM Operator Client is on a UNIX workstation, in the Suffix field, type **jnlp**.

8 In the MIME Type field, type **application/x-java-jnlp-file**.

9 For Application to use, click Browse and select the Java Web Start (JWS) executable.

10 On a UNIX workstation, select
```
/opt/nortel/3rdparty/java/current_JRE/javaws/javaws
%s
```
For Netscape version 7.0 and later, the %s parameter is not required.

On a PC, select
```
c:\Program Files\Java\j2re1.4.2_02\javaws\javaws.exe
%s.
```
For Netscape version 7.0 and later, the %s parameter is not required.

11 Click **OK** to close the New Type dialog.

12 Click **OK** to close the Netscape Preferences dialog.

Starting a local MDM session

Use the procedure in this section to start a Preside Multiservice Data Manager (MDM) session on a local workstation and to open a Preside MDM window.

Use this procedure if you have accidentally exited from the MDM Toolset menu and want to start a new session without having to login again.

You do not need to use the information in this section to start a local Preside MDM session if the UNIX user account is one of the following items:

- an existing account to which the default Preside MDM user environment has been added. For these accounts, the session starts automatically and a Preside MDM window opens when you log in.

- a new user account that is created to run the default Preside MDM user environment. For these accounts, the session starts automatically and a Preside MDM window opens when you log in.

- an RNCS user account. For these accounts the user environment is set up to allow you to access the network through RNCS.

Prerequisites

Before performing the following procedure, ensure that you have sourced the Preside MDM user environment by entering commands, or by modifying the user account's set-up files.

Procedure steps

1   Open a Preside MDM window by

```
/opt/MagellanNMS/bin/nmstool \
[Motif resource parameters] [toolset file] &
```

where:

```
[Motif resource arguments]
```

are used to specify Motif resources and X-command line arguments such as the size of the Preside MDM window and its location on the screen. For example, -geometry +0+0.

```
[toolset file]
```

is the filename or the full pathname of a toolset definition file. A toolset definition file specifies the set of Preside MDM tools that a user may

access at login. For descriptions of the toolset definition files provided with the MDM software, see 241-6001-301 *Preside MDM Customization Administrator Guide*.

If you omit this parameter, the toolset file specified in the set-up files by the value of environment variable NMSTSETS is used. The default value of this variable is the English language toolset Full.tsets.

This toolset file provides access to all Preside MDM tools except those intended for an administrator. For an administrator (root account) enter Admin.tsets for this parameter.

You can also create your own toolset definition files. For the instructions to customize the toolset menus, see 241-6001-301 *Preside MDM Customization Administrator Guide*.

The copyright dialog opens.

2   Click OK.

The copyright dialog closes.

The Preside MDM window opens.

Starting a remote session on trusted workstations

Trusted workstations are workstations that allow remote login to occur without security checks. They must be trusted because the remote shell command (rsh) is used to invoke the remote session.

To configure workstations as trusted, you must add information about the hosts to files /etc/hosts.equiv and/or <home directory> /.rhosts file(s). For information on this procedure, refer to the man pages for hosts.equiv and rsh.

Prerequisites

- the workstations are running Preside MDM

- the local workstation is running X-Windows

- the two workstations are linked by a TCP/IP connection (including over Ethernet, Token Ring, IP over WAN)

- the user account must be shared through NFS or cloned (same user name, ID, and environment) between the two workstations

- You can only run one Preside MDM session and open a Preside MDM window for a given user-session (for a given DISPLAY variable and value).

- From a given terminal window or console, you can run only one Preside MDM session per workstation, including remote workstations.

Procedure steps

1 Enter the following command:

```
/opt/MagellanNMS/bin/nmstool \
-host <remote hostname> \
[-user <remote user>] ...\
[Motif resource parameters] \
[toolset file] &
```

where:

```
<remote hostname>
```

is the hostname of a remote workstation on which you wish to run the Preside MDM tool. If you omit this parameter, the workstation is assumed to be this workstation (localhost).

```
<remote user>
```

is the remote user account name. You can use this option when the remote user account name to use is different from the current name.

Note: Similar remote Preside MDM sessions can be established by selecting System -> Utilities -> Remote Access.

Starting a remote session on non-trusted workstations

Use the following procedure to start a remote session if the workstations are not trusted, or if you need to log into a remote workstation from a different user account than the one on the local workstation.

Prerequisites

- the workstations are running Preside MDM

- the local workstation is running X-Windows

- the two workstations are linked by a TCP/IP connection (including over Ethernet, Token Ring, IP over WAN)

- the user account must be shared through NFS or cloned (same user name, ID, and environment) between the two workstations

- You can only run one Preside MDM session and open a Preside MDM window for a given user-session (for a given DISPLAY variable and value).

- From a given terminal window or console, you can run only one Preside MDM session per workstation, including remote workstations.

Procedure steps

1   Enter the following command to allow information generated on the remote workstation to be displayed on the local workstation:

   xhost +<remote host name>

2   Log in to the remote workstation by using rlogin or telnet.

3   Enter the following command while logged in:

   ```
   /opt/MagellanNMS/bin/nmstool -display \
   <local display> \
   [<Motif arguments>] \
   [<toolset>]
   ```

   where:

   ```
   <local display>
   ```

   is the value of the DISPLAY environment variable for the local workstation [not the variable for the remote Preside Multiservice Data Manager (MDM) session.

Example:

To set up a remote session on workstation MDM 1 for workstation MDM 2, first remote login in to MDM 2, then enter: /opt/MagellanNMS/bin/ nmstool -display NMS1:0.0

4   When the session is over and you have logged out, enter the following command to prevent any more information generated on the remote workstation from being displayed on the local workstation:

xhost -

Ending an MDM session

To end an active Preside Multiservice Data Manager (MDM) session, from the Preside MDM window, select File -> Exit.

For remote sessions, the Preside MDM window, the corresponding mdm session, and the remote connection are terminated.

For local sessions, the mdm session remains active until you log out.

While the mdm session is still active, the connections to the network are preserved, and you can open another Preside MDM window without re-establishing these connections.

Changing centrally authenticated passwords in MDM Operator Client

Change the password for your centrally authenticated userid when it has expired or when you require a new password. Users of MDM Operator Client change their centrally authenticated passwords in the Operator Client interface.

Prerequisites

- The user must have access to the Security-User category of applications.

Procedure steps

1 Login to the MDM Operator Client.

If your password has expired, the **Password Expiration** dialog opens.

2 If your password has expired, click **Change Password** otherwise, from the **System,** menu, click **Security->Change Password**.

3 The **Change Password** application opens.

4 Enter your current password.

5 Enter your new password.

6 Confirm your new password.

7 Click **OK**.

Changing centrally authenticated passwords via Sun ONE IS website

Change the password for your centrally authenticated userid via the Sun ONE IS web url. Users who do not have access to MDM Operator Client, change their centrally authenticated passwords via the Sun ONE IS website.

Prerequisites

• The user must have access to the Sun ONE IS.

Procedure steps

1 Access one of the following urls:

• http://<host.domain>:58080

• https://<host.domain>: 58081 (if using SSL to encrypt data)

2 Follow the on-screen instructions.

Troubleshooting

The following table describes possible error messages during authentication.

Table 1
Authentication errors

Error	Description
Application cannot be launched without proper authentication	You have attempted to launch an application without initially authenticating.
Access denied, see your system administrator	You have attempted to launch an application for which you do not have the proper authentication privileges.

Chapter 2
MDM interfaces

The Preside Multiservice Data Manager (MDM) interface operates in two environments—MDM Toolset and Operator Client. The MDM Toolset environment supports both administrator and operator tasks. The Operator Client environment provides a subset of MDM tools for operator tasks.

Navigation

MDM Toolset interface

The MDM Toolset environment provides a user-friendly graphical user interface with color graphics, menus, icons, help screens, online documentation, and multiple windows. Multiple windows allow operators to run several applications at the same time.

When you start MDM in the MDM Toolset environment, the MDM Toolset main window opens on your workstation.

Preside MDM window
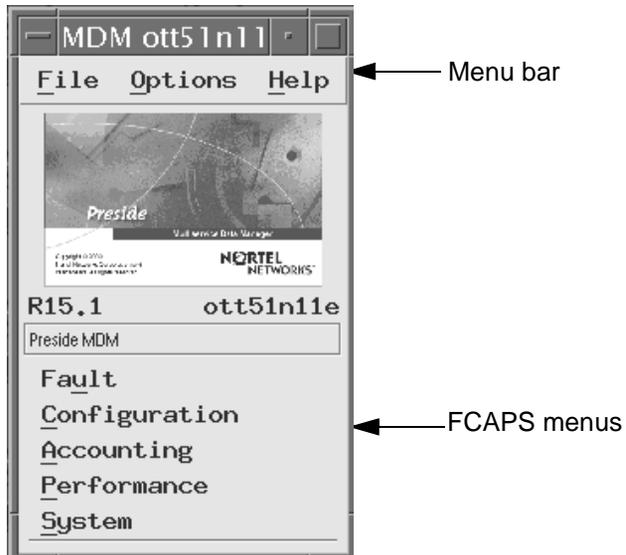
As shown in Figure 2 the MDM Toolset window is composed of the following parts:

- "Menu bar"

- "FCAPS menus"

Menu bar

The menu bar at the top of the window consists of the following menus:

- "File menu"

- "Options menu"

- "Help menu"

File menu
The only command that is available from the file menu is the Exit command. The Exit closes the MDM Toolset window.

Options menu
Table 2 lists and describes the commands available from the Options menu.

Table 2
Options menu commands

Command	Description
Fonts	Allows you to select the font for all MDM tools. After you select a font, all tools launched will start with the selected font. The font remains in effect until you select another font. If you do not select a font, there is no font requirement set on the applications

Table 2
Options menu commands

Command	Description
Applications use private color maps	lets you select private or default color maps for Preside Multiservice Data Manager (MDM). When you enable the Applications use private color maps menu item, all other applications start with private color maps. Because the default color maps of some applications use many colors, this option gives you control over which applications receive color. (Some of the MDM applications use color to identify state.) If you do not enable this menu item, MDM uses system default color maps.
Allow CDE session workspace management	lets you select Common Desktop Environment (CDE) as the session manager where all applications launch. When you use CDE, all applications that were running when you logged off launch when you log in. CDE also saves the positions, sizes, and argument lists of applications. If you do not enable this menu item, applications can use another session manager

Help menu
Table 3 lists and describes the commands available from the Help menu.

Table 3
Help menu commands

Command	Description
On Window	displays online help information about any object in the window.
On Context	provides a description of the window.

FCAPS menus

The FCAPS menus are a set of cascading menus from which you can launch the MDM tools to perform network management tasks. For an overview of the tools in each tool menu, see 241-6001-801 *Preside MDM Overview*.

Table 4
MDM Toolset FCAPS menus

Tool menu	Description
Fault	Provides commands for starting tools related to fault management.
Configuration	Provides commands for starting tools related to the configuration of nodes and services.
Accounting	Provides a command for starting tools used to collect accounting information.
Performance	Provides command for starting tools used to collect data related to performance management.
System	Provides four submenus: Administration, Security, Utilities and Custom.

MDM Operator Client interface

The MDM Operator Client environment provides a user-friendly graphical user interface with color graphics, menus, icons, help screens, online documentation, and multiple windows. Multiple windows allow operators to run several applications at the same time.

The MDM Operator Client is launched from either a PC or a UNIX workstation with Netscape or Internet Explorer.

Commands for starting the tools supported by MDM Operator Client are selected from menus accessed from the main window menu bar.

MDM Operator Client main window
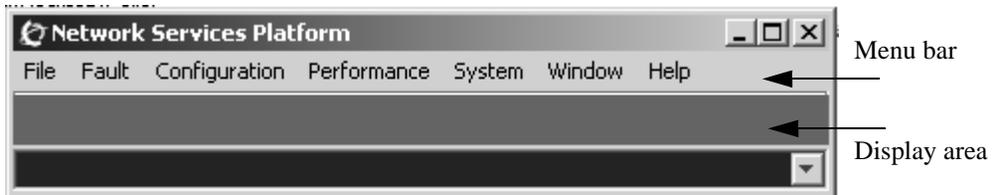
The MDM Operator Client main window is composed of the following parts:

- "Menu bar"

- "Display area"

Menu bar

The Menu bar at the top of the window consists of the following menus:

- "File menu"

- "Fault menu"

- "Configuration menu"

- "Performance menu"

- "System menu"

- "Window menu"

- "Help menu"

File menu

Table 5 lists and describes the commands available from the File menu.

Table 5
File menu commands

Command	Description
Exit	Closes the Operator Client main window

Fault menu

This menu provides commands for starting tools related to fault management. See 241-6001-801 *Preside MDM Overview* for an overview of the tools in this menu.

Table 6
Fault menu commands

Command	Description
Alarm Display	Launches the Alarm Display tool.
Alarm Help	Launches the Alarm Help tool.
Network Browser	Launches the Network Browser tool.
Network Status Bar	Launches the Network Status Bar tool.
Component Information	Launches the Component Information tool.
Passport Shelf View	Launches the Passport Shelf View tool.
MPE Shelf View	Launches the MPE Shelf View tool.

Configuration menu

This menu provides commands for starting tools related to configuration management. See 241-6001-801 *Preside MDM Overview* for an overview of the tools in this menu.

Table 7
Configuration menu commands

Command	Description
Passport Nodal Provisioning	Launches the Passport Nodal Provisioning tool.
Passport Nodal Provisioning Template Editor	Launches the Passport Nodal Provisioning Template Editor tool.
MPE Nodal Provisioning	Launches the MPE Nodal Provisioning tool.

Performance menu
This menu provides commands for starting tools related to performance management. See 241-6001-801 *Preside MDM Overview* for an overview of the tools in this menu.

Table 8
Performance menu commands

Command	Description
Data Viewer	Launches the Data Viewer tool.

System menu
This menu provides three submenus: Administration, Security and Utilities. See 241-6001-801 *Preside MDM Overview* for an overview of the tools in these menus.

Table 9
System menu commands

Command	Description
Administration	Launches the following tools: - Service Selection - User Specific - Log Browser
Security	Launches the following tool: - Change Password
Utilities	Launches the following tools: - Operational Commands - Command Console - Remote Telnet Access - Online Documentation

Window menu

Table 10 lists and describes the commands available from the Window menu.

Table 10
Window menu commands

Command	Description
Close window	Closes the window.
Cascade	Positions multiple windows diagonally starting at the top left corner.
Tile Horizontally	Positions multiple windows in a left to right, then top to bottom configuration.
Tile Vertically	Positions multiple windows in a top to bottom then left to right configuration.
Tile	Positions multiple windows side by side.

Help menu

Table 11 lists and describes the commands available from the Help menu.

Table 11
Help menu commands

Command	Description
About	Provides version information about the applications launched inside of the Operator Client desktop.

Display area

Tools that are currently running are shown in the Display area of the window. More than one tool widow can be displayed at one time.

Dialog boxes

The following dialog boxes are common to the MDM Toolset and Operator
Client environments. Depending on the tool that

- "Group Authentication" (page 43)

- "Device Selection" (page 44)

Group Authentication

The Group Authentication dialog box lets you access a group of network
elements. To authenticate, you need to specify the group name and its
associated user ID and password.

Depending on the defined preferences and previous authentication activities,
the dialog box opens with entries in the fields. If it is a new session in MDM
Toolset, the default entries reflect the login user id used to start the session. If
it is a new session in Operator Client, the default entries reflect the desktop
login user id used to start the session.

You can accept these values or, if needed, replace the values. See the table
"Group Authentication dialog box components" (page 44) for details about
the dialog box.

See the figure "Group Authentication dialog" (page 43).

Group Authentication dialog

Table 12
Group Authentication dialog box components

| Dialog box component	Action
Group Name box	Select a group name from the field's drop-down list. The list contains the group names associated with the device that was specified in the Device Selection dialog box.
User ID box	The field may contain an entry. If the entry is not appropriate, you can change it. Type, or select from the drop down list, an appropriate user ID. The drop-down list contains those user IDs that have been successfully authenticated and are available from the cache during the MDM session.
Password box	Type the appropriate password in this field.
Command buttons:	
OK	Click OK to start the authentication process. If the authentication is successful, the dialog box closes. If authentication fails, a message displays in the message area of the dialog box.
Cancel	Click Cancel to cancel the authentication and close the dialog box.
Help	Click Help to display online information in a Web browser.
Message area	The message area displays status messages during the authentication process. If the authentication fails, a message indicating an authentication failure displays in the message area along with a Details button. Click the Details button for more information about the reason for failure.

Device Selection

Use the Device Selection dialog box to specify the network device that you want to access. The Device Selection dialog box is common to several MDM tools and its behavior differs slightly depending on the MDM tool that opens the dialog box.

There are two parts to the dialog box. The first part is the Device Name panel. This panel lets you specify a device or search for a device in your network. The second part is the Device Search panel. This panel opens only when you click the Search button in the Device Name panel. Use this panel to search for devices based on search patterns. Depending on the MDM tool that opens the dialog box, you might see:

* the full Device Search panel. This occurs when an MDM tool has its own field for Device Name and an associated Search button, for example, Data Viewer.

* the Device Name panel and Device Search panel both contained within a single window, for example, Nodal Provisioning.

See the figure "Device name search dialog" (page 46).

Device name search dialog
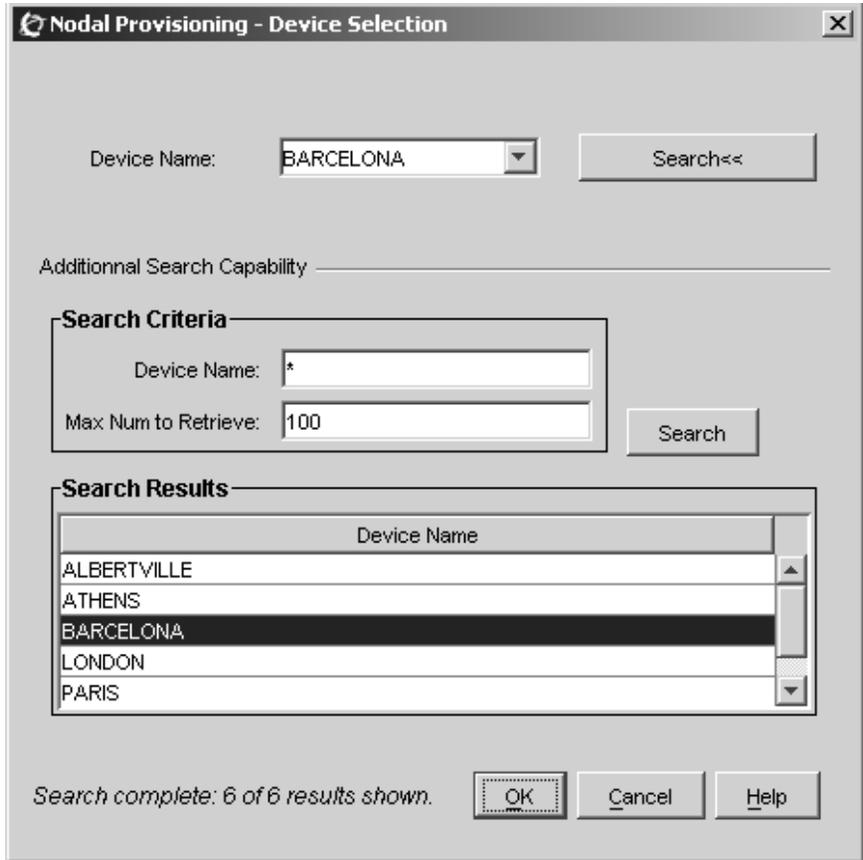
Device Name panel

See the table "Device Name dialog components" (page 47) for details about the Device Name dialog.

> *Note:* Device name input is ordinarily requested from the Device Name dialog, however, some tools, such as Data Viewer, have device name selection embedded in the main tool panel. The operation of the Device Name, whether it is in a dialog or in the main panel, is the same and is described in the following table.

Table 13
Device Name dialog components

Dialog box Component	Action
Device Name box	Type a device name or select an entry from the drop-down list.
Search button	Click the Search button to open the Device Search panel where you search for device names using search patterns and wildcards (*). Using the Search button is more efficient when your network contains a large number of devices because it avoids scrolling through a large number of entries in the Device Name drop-down list.
Command buttons:	Command buttons are available only when the Device Name panel and Device Search panel have their own separate windows.
OK	Click to activate the device selection and close the dialog box.
Cancel	Click to cancel the device selection and close the dialog box.
Help	Click to display online information in a Web browser.

Device Search panel
The Device Search panel opens when you click the Search button in the Device Name panel. See the table "Device Search panel components" (page 48) for details about the Device Search panel.

Table 14
Device Search panel components

Dialog box Component	Action
Search Criteria:	
Device Name box	Specify the search pattern for retrieval. You can use wildcards (*) in this box.
Max Num to Retrieve box	Limit the number of devices to retrieve. The default value is 100 devices.
Search button	Click this button to initiate the search for the device, or devices, based on the specified search criteria. The results of the search display in the Search Results list.
Search Results:	
Device Name list	This list displays the results of the search. Click on an entry in the list to select a device.
Command buttons:	
OK	Click to populate the Device Name panel with the selected entry in the Search Results list.
Cancel	Click to cancel the device search and close the dialog.
Help	Click to display online information in a Web browser.

Chapter 3
Common Tools Functionality

This section describes the Preside Multiservice Data Manager (MDM) common tools.

Navigation

Version information

The Preside Multiservice Data Manager (MDM) version is specified in the About Preside Multiservice Data Manager dialog available from the Help menu in Operator Client. The version number in MDM toolset is specified to the left of the screen below the main menu.

Context

Context lets you pass values among those Preside Multiservice Data Manager (MDM) tools that support context. Values are shared through the use of the MDM Context Server.

The Put context command puts an item of information into a context buffer, and the Get context command takes the information from the buffer. By using the context commands, you can avoid some repetitive data entry work. The context buffer, however, can hold only one item of information at a time. Terminating a tool does not erase the contents of a context buffer; the buffers are erased when you log off.

Start Tool

Several surveillance tools support a Start Tool menu. The purpose of this menu is to integrate tool and utility launching points in Preside Multiservice Data Manager (MDM). So, from one tool you can start other tools and utilities.

The tools and utilities that you can start may vary depending on several factors. Such factors include the type of devices in the network, the tool from which you select the Start Tool command, and whether the Start Tool menu has been customized at your installation.

When you select the Start Tool command, a menu opens and displays a list of tool categories. Each category supports a selection of tools and utilities that you can start. The following list details all MDM Start Tools categories and their associated tools and utilities. Based on the software installed at your organization, you may not see the complete list.

- Fault

  — Component Information Viewer

  — Circuit Viewer

  — Acknowledge Alarms on Component

  — Unacknowledge Alarms on Component

  — Alarm Help

- Configuration

  — Component Provisioning

  — Network Configuration System (NCS)

  — Nodal Provisioning

  — Service Provisioning
    -SPVC
    -SPVP
    -Trunk
    -VCC Bearer Service
    -VPC Bearer Service
    -CES over PVC

-CES SVC
-Frame Relay

— DPN Component Provisioning

— Network Reporting System
-Configuration Reports
-Configuration Differences

— Web Configuration

— PP4400 Component Provisioning

— Passport/SNMP Data Backup/ Restore

• Performance

— Data Viewer

— DPN Performance Viewer

• Utilities

— Customer Data

— Operator Commands

— Command Console

— Remote Telnet Session

— MIB Browser

For details on customizing the Start Tool menu, see 241-6001-301 *Preside MDM Customization Administrator Guide*. For a general description of these tools, see 241-6001-801 *Preside MDM Overview*.

Appendix
Tool and environment support

Tools and utilities

Table 1 provides a list of all MDM tools and utilities and indicates which tools and utilities are available in the MDM Toolset and MDM Operator Client environments.

Table 15
MDM tools and utilities in MDM Operator Client and MDM Toolset

Tool/Utility	Operator Client	MDM Toolset
Network Viewer	no	yes
Network Browser	yes	no
Passport Shelf View	yes	yes
MPE Shelf View	yes	yes
VPN Monitor	no	yes
Alarm Display: Active	yes	yes
Alarm Help	yes	yes
Network Status Bar	yes	yes
Component Information Viewer	yes	yes
Query Historical Alarms	no	yes

Table 15
MDM tools and utilities in MDM Operator Client and MDM Toolset

Tool/Utility	Operator Client	MDM Toolset
Component Status Display	no	yes
IP Discovery	no	yes
Circuit Viewer	no	yes
HP OpenView NM	no	yes
Nodal Provisioning	yes	yes
Embedded Nodal Provisioning	yes	yes
Component Provisioning	no	yes
Service Provisioning	no	yes
Data Synchronization Administration	no	yes
Passport Backup and Restore	no	yes
Software Download and Configuration	no	yes
Network Activation	no	yes
ATM Traffic Management Profile Editor	no	yes
Network Reporting System	no	yes
Inventory Reports	no	yes
Passport Global Data Manager	no	yes
Web configuration	no	yes
Data Synchronization Administration	no	yes

Table 15
MDM tools and utilities in MDM Operator Client and MDM Toolset

Tool/Utility	Operator Client	MDM Toolset
Passport/SNMP Service Data Backup/ Restore	no	yes
Global Data Manager tool	no	yes
Service Data Backup	no	yes
Service Data Restore	no	yes
Software Distribution	no	yes
Software Substitution	no	yes
Service Data Conversion	no	yes
Envelope Editor	no	yes
Network Activation	no	yes
Template regeneration	no	yes
MCF Directory Merge	no	yes
Network Reporting System	no	yes
Inventory Reports	no	yes
Data Viewer	yes	yes
DPN Performance Viewer	no	yes
Server Administration	no	yes
Service Selection	yes	yes
GMDR Administration	no	yes
Host Group Administration	no	yes

Table 15
MDM tools and utilities in MDM Operator Client and MDM Toolset

Tool/Utility	Operator Client	MDM Toolset
Nodal provisioning Template Editor	yes	yes
MDM Database administration	no	yes
System Log Display	no	
Historic Log File Display	no	
Log Browser	yes	yes
Disruptive Command Safeguard	no	yes
Change Password	yes	yes
UNIX Access	no	yes
Remote Access	no	yes
EPIC	no	yes
Command Console	yes	yes
Online documentation	yes	yes
Memory Utilization	no	yes
Network model shared memory utilization	no	yes
MIB Browser	no	yes
Customer Data	no	yes
Remote Telnet Access	yes	yes
Operational Commands	yes	yes

Index

Preside Multiservice Data Manager
Using MDM Toolset and Operator Client Interfaces

NORTEL
NETWORKS