



NMC-RX Element Management System Release Notes

Release 4.1.0

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NMC-RX Release Notes

These *Release Notes* are for NMC-RX Element Management System Release 4.1.0. Unless specified otherwise, information in these *Release Notes* pertains to both the Windows NT and Sun Solaris versions of the 4.1.0 software.



Note: *If the information in these Release Notes differs from the information found in the product documentation, follow these Release Notes.*

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Overview

The NMC-RX application allows you to manage, configure, and monitor the ERX edge routers in your network and to communicate with them to obtain a complete and accurate picture of the network services you provide to your customers.

Before You Start

Before you use the NMC-RX application, Juniper Networks suggests that you read these *Release Notes* in their entirety, especially the sections *Known Problems*, *Known Limitations*, and *Fixed Problems*.

About Release 4.1.0 Documentation

With NMC-RX, you receive the following documentation:

- Online Help (integral to the NMC-RX application)
- A PDF version of the *NMC-RX User Guide*
- A PDF version of the *NMC-RX Release Notes* (*this document*)

Contacting Customer Service

For technical support, contact Juniper Networks at support@juniper.net, or at 1-888-314-JTAC (within the United States) or 408-745-9500 (from outside the United States).

Updating the NMC-RX License Key

If you need to update your license key after you install the NMC-RX application, choose NMC-RX Licensing from the Help menu. In the NMC-RX Licensing Information dialog box, you can change your license.

New Features/Enhancements

NMC-RX Release 4.1.0 includes new features and enhancements (defined in the following sections). These features have been added to the NMC-RX application since Release 4.0.x. This release is compatible with ERX Releases 2.x, 3.0.x through 3.4.x, 4.0.x, and 4.1.x.

Alias, Administrative Status, and Operational Status

The NMC-RX application now supports the alias, administrative (admin) status, and operational (oper) status attributes on all interface types supported in the application. The interface types affected are the types that currently support the ifDescr attribute.

SSH Support

Either Telnet or Secure Shell Server (SSH) can be used for remote terminal connections.

Startup Scripts for Solaris

Seven new scripts have been created for Solaris. Not all scripts support all command line options. Refer to the *NMC-RX Element Management System User Guide* or online help for more information.

User Profile Name

User profile name rules have been enhanced. When you create a user profile, the user name must contain at least one alpha character and one numeric character.

Installation Information

See *Chapter 2, Installing and Running the NMC-RX Application* in the *NMC-RX Element Management System User Guide*.



Note: The startup scripts for Solaris have changed.

Known Problems

This section lists the known problems in release 4.1.0:

- The uninstall program does not remove all registry key items, such as the NMCRX_HOME environment variable. This does not create a problem when you either upgrade or re-install a different version or point release.
- When discovering a large system, the ConfigSync Service consumes a large amount of system memory. Once this memory is used, it is not returned to the system. This memory can only be released by shutting down the ConfigSync Service.
- When statistics are running, if an SNMP error is received on another operation (create, for instance), and you do not click the OK button on the error message dialog box within a certain number of seconds, the SNMP polling requests timeout indicating that the polling server is getting no response from the device. The same result occurs if the SNMP error is on one device, and the polling is occurring on another.

Once you click the OK button on the error dialog box, everything returns to normal with the next poll. However, the application may lock up.

Known Limitations

This section lists the known limitations in release 4.1.0:

- When you use Bulk Services to create a large number of objects, you should limit the number of objects to a maximum of 9000. Otherwise, you run the risk of running out of memory. To create additional objects, you can exit the NMC-RX application and then restart.
- The NMC-RX application does not currently support Cisco HDLC and Frame Relay interfaces on POS interfaces, but discovery does not display a warning message regarding this limitation.
- If you choose NMC-RX Help from the Help menu on a Windows NT system and your default Web browser is Netscape Navigator (version 4.76), Netscape Navigator launches and displays the WebHelp. However, if Netscape Navigator is already running, WebHelp is not displayed, although the browser is brought to the foreground.

Recommendation: Use Internet Explorer Version 6.0 or later.

- If you choose NMC-RX Help from the Help menu on a Solaris system and your default Web browser is Netscape Navigator, Netscape Navigator may not always launch.

Recommendation: Use Internet Explorer Version 6.0 or later. See *Troubleshooting* for additional solutions.

- Currently, the NMC-RX application allows you to start multiple Polling and ConfigSync Services at the same time. Only the last service started is actually utilized by the application. There will be no disruption of service by starting these additional services; however, it is a waste of resources to do so, and currently no error message is displayed to indicate the displacement of the existing service. You should close all instances and restart.
- When creating a BGP Neighbor, default values for many attributes are explicitly set in SNMP even if the user did not explicitly set these values. This results in unwanted configuration parameters being added to the configuration.

Recommendation: Remove these unwanted parameters using the CLI.

Troubleshooting

If any of the following conditions appear, try the suggested workaround(s).

- The default port for Java RMI (Remote Method Invocation) is 1099. If this port is in use, Polling Service and ConfigSync Service do not run correctly and an error message appears.

Workaround – Go to the NMC-RX Resource Configurator and click the Polling Service tab. Change the RMI Registry Port from 1099 to another number (for example, try 1300). Now, click the ConfigSync Service tab and change the RMI Registry Port from 1099.

- There are two causes that prevent WebHelp from starting on Solaris:

- > You have not defined the Netscape path in the PATH variable. This results in an error message being displayed in the NMC-RX window.

Workaround – Define the Netscape path.

- > You may not have permission to connect to the X server. This prevents Netscape from being started. When this happens, no error message is generated and you may think that the online help does not work properly.

Workaround – Enter the command **xhost < hostname >** in a term window. Doing this disables the X server security and allows the Netscape browser to be displayed.

- If your desktop shortcuts do not display the correct icon, use the following workaround.

Workaround

- a** Right click your desktop, and choose Properties.
- b** In the Display Properties control panel, select the Appearance tab.
- c** Under the Item option, select Icon and change the icon's size from 32 to 31.
- d** Click Apply, and click OK.
- e** Repeat steps 1–4, and return the icon's size to 32 (step 3).

Fixed Problems

The following problems reported in Release 4.0.x, have been fixed:

- You can create both an IP address and a PPPoE interface either directly on the Ethernet line interface or on a VLAN subinterface stacked on the Ethernet line interface. Problems may arise, however, when you delete PPPoE interfaces in the reverse order from which you created them, using either the NMC-RX application or the CLI. The PPPoE interface does not delete completely, and there is currently no way to delete it through the CLI. Also, in the case of the VLAN subinterface, the interface may no longer be recognized by the CLI.
- If you have a Frame Relay interface configured on a HSSI port (configured by the CLI), and you do a system update, you receive a warning, and the Frame Relay interface is not learned by the ERX system.