



NMC-RX Element Management System Release Notes

Release 5.0.1

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Contents

NMC-RX Release Notes

Overview	1
Before You Start	2
About Release 5.0.1 Documentation	2
Contacting Customer Service	2
Updating the NMC-RX License Key	2
New Features and Enhancements	2
Bridge Interfaces (Transparent Bridging)	2
Discovery Performance Improvements	3
IP Static Routes Next Hop	3
Juniper MIB Support	3
Log File Enhancements	3
Installation Upgrade	4
Policy List Statistics on IP Interfaces	4
QoS Profile Association to ATM Subinterfaces	4
SDX Integration	4
SNMP Configuration	4
Installation Information	5
Known Problems	5
Known Limitations	6
Troubleshooting	7
Fixed Problems	8

NMC-RX Release Notes

These *Release Notes* are for NMC-RX Element Management System Release 5.0.1. Unless specified otherwise, information in these *Release Notes* pertains to both the Windows and Sun Solaris versions of the release 5.0.1 software.



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

Topic	Page
Overview	1
New Features and Enhancements	2
Installation Information	5
Known Problems	5
Known Limitations	6
Troubleshooting	7
Fixed Problems	8

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 5.0.1 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* (Vol. 1 and Vol. 2)
- 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 and Enhancements

NMC-RX Release 5.0.1 includes new features and enhancements (defined in the following sections). These features have been added to the NMC-RX application since Release 4.1.0.

This release is compatible with ERX Releases 3.0.x through 3.4.x, 4.0.x, 4.1.x, and 5.0.x.

Bridge Interfaces (Transparent Bridging)

You can configure bridge interfaces (transparent bridging) using the NMC-RX application. A *transparent bridge* is a data-link layer (Layer 2) relay device that connects two or more networks or network systems. You configure transparent bridging by creating one or more bridge groups on the system (this must be done using the CLI). After you create a bridge group and perform a device update, you can create a bridge interface and associate one or more network interfaces to the bridge group.

Discovery Performance Improvements

Device and module discovery speed has improved for large configurations using ERX Release 5.0 software.

IP Static Routes Next Hop

An IP static route allows you to receive and send traffic by assigning a fixed route (next hop) through the network. A next hop can be an IP address, an IP interface, or both an IP address and an IP interface.

Juniper MIB Support

To reflect Juniper Networks branding, Unisphere enterprise MIBs, MIB tables, and agent capabilities exhibit the following changes:

- The prefix “juni” replaces the prefix “us,” “usd,” or “usData” in MIB and agent capabilities filenames and MIB tables (for example, the filename “juniMibs.mi2” replaces “usDataMibs.mi2”).
- The prefix “Juniper” replaces “Unisphere-Data” in all MIB definitions for both the MIB and agent capabilities files.
- The prefix “UNI” appears in some MIB definitions to address any naming conflicts with already existing MIB definitions (for example, because the Juniper Networks MIB definition “JUNIPER-IF-MIB” already exists, the Unisphere MIB uniquely labels the MIB definition “Juniper-UNI-IF-MIB”).
- The prefix “junid” replaces the prefix “uxd” in table names within IETF Internet drafts that require a Juniper Networks experimental OID.

Log File Enhancements

System logging has been enhanced to include multiple user login entries, execute-only actions, and processing actions. User name and privilege level is also recorded.

By default, logging is enabled when the application is installed. To turn logging off, open traceLog.rc, located in the NMC-RX installation directory, and change:

```
nmcrxLogFileOn=On
```

to

```
nmcrxLogFileOn=Off
```

Installation Upgrade

Depending on the version of software currently installed, you can perform an installation upgrade rather than installing the complete NMC-RX application. If you have a version of the software installed that is listed below, you may upgrade. Releases before 4.1.x are not upgradeable using this feature.

If You Have This Version Installed	You May Upgrade To This Version
4.1.x	5.0.1

After upgrading, you can revert to the previously installed version of the software, if necessary.

Policy List Statistics on IP Interfaces

Policy statistics on a device for policies associated with IP interfaces can be displayed. To obtain policy statistics, you must identify a specific policy list rule and one of its associated classifier control list entries (if any).

QoS Profile Association to ATM Subinterfaces

QoS profiles can be attached to ATM subinterfaces on the following line modules: OC3 ATM-4 port, OC12 ATM-1 port, T3 ATM-4 port.

SDX Integration

You can now integrate the NMC-RX application with Juniper Networks Service Deployment System (SDX) application. This integration allows an information exchange between the NMC-RX and the SDX application. For more information, refer to the SDX documentation.

SNMP Configuration

You can now configure SNMP trap destinations on virtual routers. You can create a trap destination model or template that contains default parameters for trap destinations. You then associate this model with one or more virtual routers. By modeling trap destination hosts, you can see how many of your ERX devices are configured to send SNMP traps to a specific host. Also, when you use trap destination models, you can share common parameters for a host with multiple virtual routers on many ERX devices.

Installation Information

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

Solaris software patches 108940-50 and 108652-66 are required to install the NMC-RX application on Solaris 2.8. To find the required patches for your system, visit:

<http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/patch-access>

Known Problems

This section lists the known problems in Release 5.0.1:

- 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 OK on the error dialog box, everything returns to normal with the next poll.

- When configuring an interface, if you display the Module Config tab (by clicking the Lower Layer button) and then close it (by clicking the X button), all other tabs are closed and the original interface remains locked.

Workaround – Users with Admin privileges can right-click the System folder and choose Unlock Device.

- The Uni version value in the NMC-RX application may not be in sync with the value displayed in the CLI.
- Attempting to use an IP interface that has a category of NBMA or Broadcast as the Next Hop when creating an IP Static Route causes an

SNMP error. Only IP interfaces with a category of point-to-point can be used as the Next Hop for an IP Static Route.

Known Limitations

This section lists the known limitations in Release 5.0.1:

- 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.
- 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.

- When the Config Sync service and the Polling service are started before the database has completely initialized, an error occurs.
Recommendation: Wait until the database is initialized before launching other NMC-RX components. If an error has occurred, close all NMC-RX components (including the database) and start over.
- If you edit the ILMI settings (VPI and VCI) of an ATM interface while the ILMI Settings Admin Status is set to “Up”, an SNMP error occurs.

Workaround – Before changing VPI and VCI settings, change the ILMI Settings Admin Status to “Down” and click Save. Next, update the VPI and VCI settings and click Save. Then, change the ILMI Settings Admin Status back to “Up” and click Save.

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 a–d, and return the icon's size to 32 (step c).

Fixed Problems

The following problems reported in Releases 4.1.x, have been fixed:

- Solaris: NMC-RX related processes still run after all NMC-RX services and clients have been stopped.
- 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.
- 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.
- The startup script nmcxdb located in /opt/NMC-RX/utils/ points to /opt/Sybase. It should point to /opt/sybase.