



# **NMC-RX™ Element Management System for Juniper Networks® Routing Platforms**

## **Release Notes**

*Release 5.3.0*

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# NMC-RX Release Notes

These *Release Notes* are for NMC-RX Element Management System Release 5.3.0. Unless specified otherwise, information in these *Release Notes* pertains to both the Windows and Sun Solaris versions of the release 5.3.0 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

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The NMC-RX application allows you to manage, configure, and monitor the E-series 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* and *Known Limitations*.

### **About Release 5.3.0 Documentation**

With the NMC-RX application, 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 Keys**

If you need to update your license keys 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 either your NMC-RX or PVS license key.

## **New Features and Enhancements**

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NMC-RX Release 5.3.0 includes new features and enhancements (defined in the following sections). These features have been added to the NMC-RX application since Release 5.2.0.

This release is compatible with ERX Releases 5.0.x, 5.1.x, 5.2.x, and 5.3.x.

### **Forward Rules**

You can now configure four type-specific parameters for a forward rule: Next Interface, Next Hop, Order, and Ignore Default Route. You can also configure up to 20 rules per classifier control list.

### **Cisco HDLC over POS**

Cisco HDLC is now supported on all POS line modules.

### **OC48/STM16 POS Line Module Support**

You can now configure OC48/STM16 POS line modules with the NMC-RX application.

### **Software Release Download**

Using the NMC-RX application, you can remotely download JUNOS software releases from a centralized location to one or more E- routers. For example, you can select a specific software release and then download the file to multiple E-series routers at the same time. Software releases must be stored on an FTP server that has been set as the Software Release Repository.

## User Inactivity Timer

The user inactivity timer enables you to set a period of time that the NMC-RX application waits before closing due to user inactivity. If you do not perform any tasks (view, configure, update, etc.) in the time specified, a message dialog box appears indicating that your session has ended. When you click OK, all open dialog boxes and workshops close and the NMC-RX application exits. You must relaunch the application and log in again to continue using it.

While running the NMC-RX application, setting the inactivity timer is dependent upon your user privileges. During NMC-RX installation, and based on the install set you choose, you may have the option to set or modify the timer.

## Installation Information

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See *Chapter 2, Installing and Running the NMC-RX Application*, in the *NMC-RX User Guide, Vol. 1*.

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

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This section lists the known problems in Release 5.3.0:

- 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, a SNMP timeout error is returned for the SNMP statistics get request. The same result occurs if the SNMP error is on one device, and the statistics 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 Security privileges enabled can right-click the System folder and choose Unlock Device.

- An SNMP error occurs when you try to configure an IP static route and select an NBMA or broadcast IP interface as the next hop. Only IP interfaces with a category of point-to-point can be used as the next hop for an IP static route.
- IP interfaces that you choose for any forward or next interface rules within a policy list must exist on the same virtual router. An SNMP error occurs if you add a forward or next interface rule to the policy list that specifies an IP interface from a different virtual router.

## Known Limitations

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This section lists the known limitations in Release 5.3.0:

- 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.
- 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 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.

- An error may occur if, during a device update, you attempt to make changes to a scheduled task and save them.

**Workaround** – Wait until the device has been updated and then edit the scheduled tasks.

- Manually specifying a software release for software download requires that the subdirectory field for the software repository must contain a valid value (for example, “.”).

## Troubleshooting

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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).

