

# NMC-RX Release Notes

These *Release Notes* are for NMC-RX Element Management System Release 5.2.0. Unless specified otherwise, information in these *Release Notes* pertains to both the Windows and Sun Solaris versions of the release 5.2.0 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 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*, *Known Limitations*, and *Fixed Problems*.

### **About Release 5.2.0 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 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**

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NMC-RX Release 5.2.0 includes new features and enhancements (defined in the following sections). These features have been added to the NMC-RX application since Release 5.1.0.

This release is compatible with ERX Releases 4.1.x, 5.0.x, 5.1.x, and 5.2.x.

### **BGP Neighbor Enhancement**

The BGP neighbor windows now contain a new Configured Parameters pane along with the BGP neighbor work area. The Configured Parameters pane contains a hierarchical view of all BGP-related parameters that you can use to configure a BGP neighbor. This pane controls how the BGP neighbor inherits information from peer groups or global settings.

### **Config Sync Usability Enhancements**

A new information display window appears for device creation and for updates of devices, modules, and ports. This display window provides reference to the object being updated, along with console information that itemizes discovery or update activities.

### **Installation Upgrade**

Depending on the version of software currently installed, you can perform an installation upgrade rather than installing the complete NMC-RX application. You can upgrade to version 5.2.0 from any of the following versions:

4.1.x

5.0.x

5.1.x

You cannot upgrade versions before 4.1.x using this feature.

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

## **Installing NMS-RX PVS**

You can install the NMC-RX Provisioning Service (PVS) with the NMC-RX application. This option does not apply to NMC-RX Client Only installations. NMC-RX PVS is available only if you have purchased a separate license.

## **IP Interface Alias Attribute**

The Alias attribute is now included in the List area when IP interfaces are listed. You can sort by Alias by clicking the column heading.

## **IPSec Module Support**

The NMC-RX application supports the IPSec module. Although the module is not configurable, you can view it and update it. IPSec provides security to IP flows through the use of authentication and encryption.

## **Non-Root Users on Solaris**

Non-root users (non-admin users) can use the NMC-RX application on Solaris. This can be specified during installation.

## **Polling and ConfigSync Timing Values**

In the NMC-RX Resource Configurator, the units for the following values have changed from milliseconds to seconds:

    Polling Service tab—Polling Interval and Retry Interval values

    Config Sync Service tab —FTP Timeout value

## **Scheduling Support**

Task scheduling allows you to automate update and configuration file backup operations. Access to these functions can be made available to users based on their designated user privileges.

## **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 5.2.0:

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.

## Known Limitations

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This section lists the known limitations in Release 5.2.0:

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.

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 SMNP 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.

## 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).

## Fixed Problems

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The following reported problems have been fixed:

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.

If a value outside the range of 0-65535 is set for the poll frequency on an ATM interface, an SNMP error may occur.

If you configure a BGP Neighbor after performing an update of the device, the Configured Parameters panel may not display the correct information.

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.

The NMC-RX application enables you to select an IP loopback interface when creating a profile. Once the reference is added to the router using NMC-RX, the profile does not contain the reference to the loopback interface within the router configuration. If you view the profile in NMC-RX after saving it, the reference to loopback is not listed. NMC-RX is not writing this configuration information to the router.

When viewing or configuring profiles in the NMC-RX application, the parameter ppp chap-challenge-length is missing.