



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

Release Notes

Release 6.1.0

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Table of Contents

Release 6.1.0	1
Overview	1
Before You Start	1
About Release 6.1.0 Documentation.....	2
Contacting Customer Service.....	2
Updating the NMC-RX License Keys	2
New Features and Enhancements	2
Discovery Performance Improvements	3
Installation Information	4
Known Problems	4
Known Limitations.....	5
Troubleshooting.....	6

Release 6.1.0

These *Release Notes* are for NMC-RX Element Management System Release 6.1.0. Unless specified otherwise, information in these *Release Notes* pertains to both the Windows and Sun Solaris versions of the Release 6.1.0 software.



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

- Overview on page 1
- New Features and Enhancements on page 2
- Installation Information on page 4
- Known Problems on page 4
- Known Limitations on page 5
- Troubleshooting on page 6

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 that you provide to your customers.

Before You Start

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

About Release 6.1.0 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 <http://www.juniper.net/support/>, 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, Config Sync Services, or Provisioning Service license key.

New Features and Enhancements

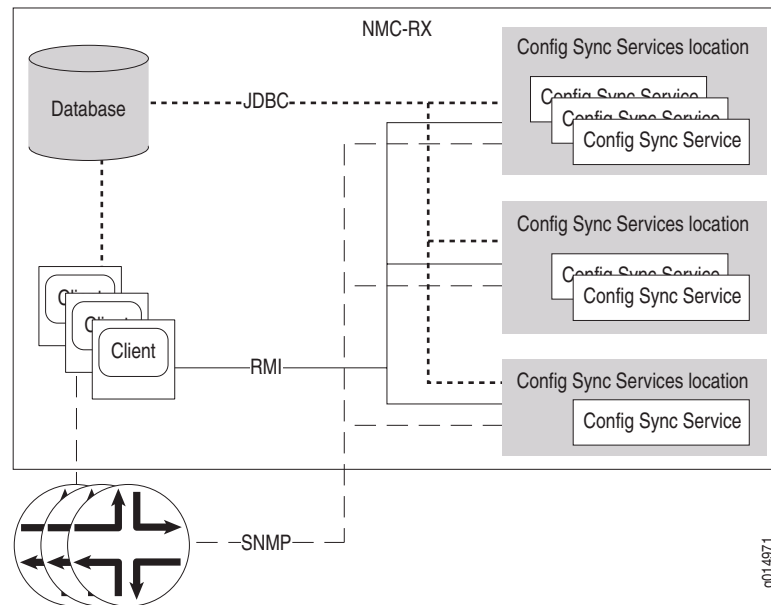
NMC-RX Release 6.1.0 includes new features and enhancements (defined in the following sections). These features have been added to the NMC-RX application since Release 6.0.0.

This release is intended to work with JUNOS Releases 6.0.x and 6.1.0. This release is also compatible with JUNOS Releases 5.2.x and 5.3.x.

Discovery Performance Improvements

NMC-RX Release 6.1.0 uses a distributed processing model to provide greater scalability and control of discovery and update processes for E-series devices (Figure 1).

Figure 1: Sample Config Sync Services Distribution



A Config Sync Services pool allows multiple Config Sync Services to be active simultaneously, thus providing a wealth of processing power that is available to multiple Config Sync Service locations.

With the addition of the new Config Sync Services installation option, a system administrator can choose to install one or more Config Sync Services on a workstation without having to install the other NMC-RX components.

You can run multiple Config Sync Services on a single platform or utilize multiple platforms as part of the same NMC-RX Config Sync Service pool. You can oversee and manage the distributed Config Sync Services pool using the NMC-RX client application.

For more information about Config Sync Services, see *Chapter 11, Configuring Config Sync Services*, in the *NMC-RX User Guide, Vol. 2*.

Installation Information

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

This section lists the known problems in Release 6.1.0:

- When you use Add/Remove Programs in Windows to remove the Juniper Networks NMC-RX application, all Config Sync Services are also removed. However, entries for the Config Sync Services still appear in the Add/Remove Programs dialog box.

Workaround: Close, then reopen the Add/Remove Programs dialog box to refresh it and confirm that the Config Sync Services entries no longer appear.

- 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, an 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.

After 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 a nonbroadcast multiaccess (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

This section lists the known limitations in Release 6.1.0:

- When you click Install on the Pre-Install Summary dialog box during installation, there is a short amount of time when the database updates. If you click Cancel during this time, the database remains locked for the installation of additional Config Sync Services.

Recommendation: Do not click Cancel after the installation begins. Instead, allow the installation to complete, and then use the NMC-RX Uninstaller or Config Sync Services uninstaller to remove the desired components.

- When you use Bulk Services to create a large number of objects, 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 Services at the same time. Only one Polling Service is actually used by the application. There will be no disruption of service if you start additional services; however, it is a waste of resources to do so, and currently no error message is displayed to indicate any displacement of the service being used. All instances of polling should be closed, and only one restarted.
- When the Config Sync Services 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 Integrated Local Management Interface (ILMI) settings (virtual path identifier [VPI] and virtual circuit identifier [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.

- The OAM Loopback Enable and OAM Loopback Frequency parameters are read-only when you create and configure ATM interfaces using the NMC-RX client and NMC-RX Provisioning Service for devices that are running JUNOS release 6.1.0 . You can configure these parameters for devices running JUNOS release 6.0.0 or earlier.
- You cannot create Frame Relay major interfaces for devices running JUNOS release 6.1.0. You can create Frame Relay major interfaces for devices running JUNOS release 6.0.0 or earlier.

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 Config Sync Services do not run correctly, and an error message appears.

Workaround: Go to NMC-RX Application Settings in the Configuration menu. On the Config Sync Services tab, select the desired service, and change the RMI Registry Port from 1099 to another number (for example, try 1300). Now, click the Polling Service tab, and change the RMI Registry Port from 1099.

- Two causes 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).