

Release 7.0.0

These *Release Notes* are for NMC-RX Element Management System Release 7.0.0. Unless specified otherwise, information in these *Release Notes* pertains to both the Windows and Sun Solaris versions of the release 7.0.0 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 3
- Known Problems on page 3
- Known Limitations on page 3
- Troubleshooting on page 4
- Fixed Problems on page 4

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 7.0.0 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, open a support case with the Case Manager link at <http://www.juniper.net/support/> or call 1-888-314-JTAC (from the United States, Canada, or Mexico) or 1-408-745-9500 (from elsewhere).

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 7.0.0 includes new features and enhancements (defined in the following sections). These features have been added to the NMC-RX application since Release 6.1.x.

This release is intended to work with JUNOS Releases 7.0.x and 6.1.x. This release is also compatible with JUNOS Releases 6.0.x and 5.3.x.

SNMPv2c and SNMPv3

You can install the SNMPv2c version or the SNMPv3 version of the NMC-RX application. Each version provides authentication and privacy for users in different ways:

- SNMPv2c—Provides password protection via a community string.
- SNMPv3—Each user is associated with a group. A group is a set of users with the same access privileges to the router. For each NMC-RX user, you can configure only one SNMP user.

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 7.0.0:

- 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.

- 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 7.0.0:

- 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.

- 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

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

- 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.
- 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: Define the Netscape path.

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.

Fixed Problems

The following problems reported in previous releases have been fixed:

- Config Sync Services FTP directories on Solaris are not created with read/write privileges.

Workaround: After starting a Config Sync Service for the first time, and before performing a device discovery, execute the following command:

```
chmod -R 777 <local FTP root directory>/<FTP subdirectory>
```

Note that `< local FTP root directory >` and `< ftp subdirectory >` are the directories set during installation.

- 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.

- You cannot create Frame Relay major interfaces for devices running JUNOS release 6.1.0 and release 7.0.0bx. You can create Frame Relay major interfaces for devices running JUNOS release 6.0.0 or earlier.
- 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.
- 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.
- In previous releases, the PVS test utility was not reading the EMS name and port number from the PVS.rc file and did not work correctly if the values were changed in the file. The PVS test utility now correctly uses the EMS name and port number in the PVS.rc file.

