

# JUNOScope 7.3 Software Release Notes

**Release 7.3R4**  
**19 May 2006**  
**Part No. 530-013462-01**  
**Revision 5**

These release notes accompany Release 7.3R4 of the JUNOScope software. They describe the key features, documentation, and known problems with the software. The JUNOScope software is a network management application that provides router configuration management, inventory management, operational status, and troubleshooting tools for Juniper Networks J-series, M-series, and T-series routing platforms.

You can also find these release notes on the Juniper Networks Technical Publications Web page, which is located at <http://www.juniper.net/techpubs/>.

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## Release 7.3 Features

The following features have been added to JUNOScope Release 7.3:

- **Scanning Software Package Inventory**—The JUNOScope Inventory Management System scans the inventory of selected routing platforms on the network for the installed JUNOS software and its packages. Software Inventory reports display the software package name, package description, JUNOS software version, the Routing Engine on which the software is installed, and the number of routing platforms on which the software is installed.
- **Importing Device Configurations**—Select Configuration > Repository > Import to import all or part of device configuration files in ASCII file format from the local file system into the JUNOScope software. Imported configurations are automatically versioned and stored in the JUNOScope Concurrent Versions System (CVS) repository. Once imported, you can display or compare configurations. You can also restore an imported configuration to a selected router by merging, replacing, or overriding the existing configuration.
- **Enabling JUNOScope Software Features During Installation**—During the JUNOScope software installation process, the administrator can enable the software features—Looking Glass, Configuration Manager, or Inventory Management System—that are licensed for use. The JUNOScope administrator can enable other application modules later, by reconfiguring JUNOScope or by reinstalling it. To reconfigure JUNOScope, see “Reconfigure the JUNOScope Software” on page 5.

## Current Software Release

The current JUNOScope software release is Release 7.3R4. For information about installing the software release, see “Installation, Reinstallation, Upgrade, Deinstallation, and Uninstallation Instructions” on page 3.

## Resolved Issues

This section describes issues that have been resolved since the last release of the JUNOScope software.

**RADIUS Authentication** Operations such as archive, restore or scan, no longer hang when performed by a user who logs in to the JUNOScope software using RADIUS authentication. (PR 64057)

The backup RADIUS server is working for JUNOScope RADIUS authentication. (PR 69900)

## Installation, Reinstallation, Upgrade, Deinstallation, and Uninstallation Instructions

- To install the JUNOScope software, see “Install the JUNOScope Software” on page 3.
- To reinstall, upgrade, or de-install the JUNOScope software, see “Reinstall or Upgrade the JUNOScope Software” on page 5.

### ***System Requirements***

Before you install the JUNOScope software, ensure that the UNIX server workstation on which you install the software meets the system requirements shown in Table 1.

**Table 1: JUNOScope Software Minimum System Requirements**

<b>System</b>	<b>Minimum Requirement</b>
Workstation	UltraSPARC III or equivalent
Operating system	Solaris 5.8 or later
RAM	1 GB
Disk space	750 MB

### ***JUNOScope Client Workstation Requirements***

Ensure that the client workstation from which you connect to the JUNOScope software is running either Microsoft Internet Explorer 6 or Netscape Navigator 6 or later with JavaScript enabled.

### ***RADIUS Server Requirements***

Ensure that the RADIUS server complies with RFC 2865, *Remote Authentication Dial-In User Service*.

### ***Install the JUNOScope Software***

You can install the JUNOScope software in one of the following ways:

- Install the JUNOScope Software from the CD-ROM on page 4
- Download the JUNOScope Software from the Software Download Page on page 4

To upgrade the JUNOScope software, see “Reinstall or Upgrade the JUNOScope Software” on page 5.

For more information about installing the JUNOScope software, see the *JUNOScope Software User Guide*.

### ***Install the JUNOScope Software from the CD-ROM***

To install the JUNOScope software from the product CD-ROM, follow these steps:

1. Insert the JUNOScope software CD-ROM into the CD-ROM drive of the server workstation.
2. Mount the CD-ROM.

If the volume management (volmgt) daemon, vold, is running on your server, the CD-ROM automatically mounts itself. To mount the CD-ROM manually, follow the procedure for your operating system.

3. Start the JUNOScope installation:

```
hostname% cdrom-mount-directory/jtk-installer install-directory
```

Replace *cdrom-mount-directory* with the directory on which the CD-ROM is mounted: /mnt, /cdrom, or /cdrom/JUNOScope, depending on your host setup.

Replace *install-directory* with the directory in which to install the JUNOScope software. If you do not specify an installation directory, the software is installed in the current directory.

For more information about installing the JUNOScope software, see the *JUNOScope Software User Guide*.

### ***Download the JUNOScope Software from the Software Download Page***

To download the JUNOScope software from the Juniper Networks Web site and start the JUNOScope installation, follow these steps:

1. Using a Web browser, go to the following location:

```
https://www.juniper.net/junos/swdist/encryption/index.htm
```

2. Log in to the Juniper Networks authentication system using the username (generally your e-mail address) and password supplied by a Juniper Networks representative.
3. Download the JUNOScope software to the server workstation.
4. Start the JUNOScope installation program:

```
hostname% download-directory/jtk-install-7.3R4.X-sunos5-sparc.sh install-directory
```

Replace *download-directory* with the directory into which you downloaded the JUNOScope software from the software download page.

**jtk-install-7.3R4.X-sunos5-sparc.sh** is the JUNOScope software file. Replace *X* with the software version to download.

Replace *install-directory* with the directory in which to install the JUNOScope software. If you do not specify an installation directory, the software is installed in the current directory.

## ***Reconfigure the JUNOScope Software***

You can change the following JUNOScope software installation settings without rerunning the installation program. For more information about these settings, see the *JUNOScope Software User Guide*.

- The HTTPS and HTTP ports on which the JUNOScope Webserver should listen
- The port on which the JUNOScope server listens for control messages
- The HTTP port on which the JUNOScope report server should listen
- The Java Database Connectivity (JDBC) URL for accessing the JUNOScope database
- Debug logging
- Idle session timeout
- Licensed software modules

You cannot change some settings, such as passwords.

To change JUNOScope software settings, use the following command:

```
hostname% <install-directory>/jtk/bin/jtk-setup.sh
```

## ***Reinstall or Upgrade the JUNOScope Software***

The process for reinstalling or upgrading the JUNOScope software is the same as for installing the software. To install the JUNOScope software, see “Install the JUNOScope Software from the CD-ROM” on page 4 or “Download the JUNOScope Software from the Software Download Page” on page 4.

To reinstall or upgrade JUNOScope software, you must use the same user ID as the one used for the currently installed software.

## ***Deinstall the JUNOScope Software***

You can uninstall the current version of the JUNOScope software and install an older one. The software features of the older version will apply, but the database contents, such as configurations and Inventory Management System scan data, will be lost.

To deinstall the JUNOScope software, you must use the same user ID as the one used for the currently installed software.

To deinstall the JUNOScope software and install an older version, follow these steps:

1. Export all of the configurations stored in the CVS repository from the current version using Settings > Import/Export Data.

2. Uninstall the current JUNOScope software. (For more information about uninstalling JUNOScope, see the *JUNOScope Software User Guide*.)
3. Reinstall the older version of JUNOScope. See the installation instructions for the older version of JUNOScope.
4. Import all the configurations again using Settings > Import/Export Data.

## Uninstalling the JUNOScope Software

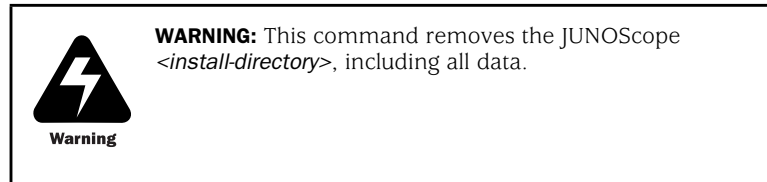
To uninstall the JUNOScope software, follow these steps:

1. Stop the JUNOScope software and database by changing to the directory where you installed the JUNOScope software and typing the following command:

```
hostname% <install-directory>/jtk/rc.d/jtk stop
```

2. Remove the JUNOScope software by typing the following command:

```
hostname% rm -rf <install-directory>
```



## Product and Related Documentation

Table 2 lists the software and hardware guides and release notes for Juniper Networks J-series, M-series, and T-series routing platforms and describes the contents of each document. Table 3 lists the books included in the *Network Operations Guide* series.

**Table 2: Juniper Networks Technical Documentation**

Document	Description
<b>JUNOS Internet Software for J-series, M-series, and T-series Routing Platforms Configuration Guides</b>	
<i>Feature Guide</i>	Provides a detailed explanation and configuration examples for several of the most complex features in the JUNOS software.
<i>JUNOS-FIPS Configuration Guide</i>	(M-series and T-series routing platforms only) Provides an overview of JUNOS-FIPS 140-2 concepts and describes how to install and configure the JUNOS-FIPS software. Describes FIPS-related commands and how to configure, authorize, and zeroize the AS II FIPS PIC.
<i>MPLS Applications</i>	Provides an overview of traffic engineering concepts and describes how to configure traffic engineering protocols.
<i>Multicast Protocols</i>	Provides an overview of multicast concepts and describes how to configure multicast routing protocols.

<b>Document</b>	<b>Description</b>
<i>Network Interfaces and Class of Service</i>	Provides an overview of the network interface and class-of-service functions of the JUNOS software and describes how to configure the network interfaces on the routing platform.
<i>Network Management</i>	Provides an overview of network management concepts and describes how to configure various network management features, such as SNMP and accounting options.
<i>Policy Framework</i>	Provides an overview of policy concepts and describes how to configure routing policy, firewall filters, forwarding options, and cflowd.
<i>Routing Protocols</i>	Provides an overview of routing concepts and describes how to configure routing, routing instances, and unicast routing protocols.
<i>Services Interfaces</i>	Provides an overview of the services interfaces functions of the JUNOS software and describes how to configure the services interfaces on the routing platform.
<i>System Basics</i>	Provides an overview of the JUNOS software and describes how to install and upgrade the software. This guide also describes how to configure system management functions and how to configure the chassis, including user accounts, passwords, and redundancy.
<i>VPNs</i>	Provides an overview and describes how to configure Layer 2 and Layer 3 virtual private networks (VPNs), virtual private LAN service (VPLS), and Layer 2 circuits. Provides configuration examples.
<b>JUNOS References</b>	
<i>Interfaces Command Reference</i>	Describes the JUNOS software operational mode commands you use to monitor and troubleshoot interfaces.
<i>Routing Protocols and Policies Command Reference</i>	Describes the JUNOS software operational mode commands you use to monitor and troubleshoot routing protocols and policies, including firewall filters.
<i>System Basics and Services Command Reference</i>	Describes the JUNOS software operational mode commands you use to monitor and troubleshoot system basics, including commands for real-time monitoring and route (or path) tracing, system software management, and chassis management. Also describes commands for monitoring and troubleshooting services such as class of service (CoS), IP Security (IPSec), stateful firewalls, flow collection, and monitoring.
<i>System Log Messages Reference</i>	Describes how to access and interpret system log messages generated by JUNOS software modules and provides a reference page for each message.
<b>J-Web User Guide</b>	
<i>J-Web Interface User Guide</i>	Describes how to use the J-Web graphical user interface (GUI) to configure, monitor, and manage Juniper Networks routing platforms.
<b>JUNOScript API Documentation</b>	
<i>JUNOScript API Guide</i>	Describes how to use the JUNOScript application programming interface (API) to monitor and configure Juniper Networks routing platforms.
<i>JUNOScript API Configuration Reference</i>	Provides a reference page for the configuration tags in the JUNOScript API.
<i>JUNOScript API Operational Reference</i>	Provides a reference page for the operational tags in the JUNOScript API.
<b>JUNOS Comprehensive Index and Glossary</b>	
<i>Comprehensive Index and Glossary</i>	Provides a complete index of all JUNOS software books and the <i>JUNOScript API Guide</i> . Also provides a comprehensive glossary.
<b>JUNOScope Documentation</b>	
<i>JUNOScope Software User Guide</i>	Describes the JUNOScope software graphical user interface (GUI), how to install and administer the software, and how to use the software to manage routing platform configuration files and monitor routing platform operations.

<b>Document</b>	<b>Description</b>
<b>J-series Services Router Documentation</b>	
<i>J-series Services Router Getting Started Guide</i>	Provides an overview, basic instructions, and specifications for J-series Services Routers. The guide explains how to prepare your site for installation, unpack and install the router and its components, install licenses, and establish basic connectivity.
<i>J-series Services Router Configuration Guide</i>	Explains how to configure the interfaces on J-series Services Routers for basic IP routing with standard routing protocols. The guide also shows how to configure virtual private networks (VPNs), configure and manage multicast networks, and apply routing techniques such as policies, firewall filters, IP Security (IPSec) tunnels, and service classification for safer, more efficient routing.
<i>J-series Services Router Administration Guide</i>	Shows how to manage users and operations, monitor network performance, upgrade software, and diagnose common problems on J-series Services Routers.
<b>M-series and T-series Hardware Documentation</b>	
<i>Hardware Guide</i>	Describes how to install, maintain, and troubleshoot routing platforms and components. Each platform has its own hardware guide.
<i>PIC Guide</i>	Describes the routing platform Physical Interface Cards (PICs). Each platform has its own PIC guide.
<b>Release Notes</b>	
<i>JUNOS Release Notes</i>	Summarize new features and known problems for a particular software release, provide corrections and updates to published JUNOS and JUNOScript manuals, provide information that might have been omitted from the manuals, and describe upgrade and downgrade procedures.
<i>Hardware Release Notes</i>	Describe the available documentation for the routing platform and the supported PICs, and summarize known problems with the hardware and accompanying software. Each platform has its own release notes.
<i>JUNOScope Software Release Notes</i>	Contain corrections and updates to the published JUNOScope manual, provide information that might have been omitted from the manual, and describe upgrade and downgrade procedures.
<i>J-series Services Router Release Notes</i>	Briefly describe the J-series Services Router features, identify known hardware problems, and provide upgrade and downgrade instructions.

**Table 3: JUNOS Internet Software Network Operations Guides**

Book	Description
<b>JUNOS Internet Software for M-series and T-series Routing Platforms Network Operations Guides</b>	
<i>Baseline</i>	Describes the most basic tasks for running a network using Juniper Networks products. Tasks include upgrading and reinstalling JUNOS software, gathering basic system management information, verifying your network topology, and searching log messages.
<i>Interfaces</i>	Describes tasks for monitoring interfaces. Tasks include using loopback testing and locating alarms.
<i>MPLS</i>	Describes tasks for configuring, monitoring, and troubleshooting an example MPLS network. Tasks include verifying the correct configuration of the MPLS and RSVP protocols, displaying the status and statistics of MPLS running on all routers in the network, and using the layered MPLS troubleshooting model to investigate problems with an MPLS network.
<i>Hardware</i>	Describes tasks for monitoring M-series and T-series routing platforms.

## How To Request Support

For technical support, open a support case using 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).

For documentation issues, fill out the bug report form located at <https://www.juniper.net/techpubs/docbug/docbugreport.html>.

## Revision History

15 July 2005—Revision 1, JUNOScope Release 7.3R1.

22 August 2005—Revision 2, JUNOScope Release 7.3R1.6.

11 October 2005—Revision 3, JUNOScope Release 7.3R2.

2 February 2006—Revision 4, JUNOScope Release 7.3R3

19 May 2006—Revision 5, JUNOScope Release 7.4R4

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