

# M5 and M10 Internet Router Release Notes

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Revision 2

These release notes accompany the release of the Juniper Networks M5 and M10 Internet routers. They describe the documentation for the routers and known issues with the hardware.

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

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## Outstanding Issues

This section lists outstanding issues with the M5 and M10 routers. For information about software issues, see the JUNOS Internet Software Release Notes.

- Combinations of PICs—On Juniper Networks routers, you can typically install any combination of Physical Interface Cards (PICs) on a single Enhanced Flexible PIC Concentrator (FPC). With JUNOS Release 6.3, on M5, M10, M20, M40, M40e, and M160 routers, there are some combinations of PICs that cannot be installed together on the same Enhanced FPC. If you are upgrading to JUNOS 6.3 on one of the systems mentioned above and have different PIC

types on a single FPC, please consult Technical Bulletin PSN-2004-04-005 on the Juniper Networks Support Web site <http://www.juniper.net/support/>.

- Do not install PICs designed for another router into an M5 or M10 router. Installing PICs designed for another router can damage the midplane. Also, do not install PICs designed for the M5 and M10 routers into another router, or you could damage the midplane.
- Before removing a PIC, be sure to press and hold the PIC online/offline button for at least five seconds to take the PIC offline.

## List of Technical Publications

Table 1 lists the software and hardware books for Juniper Networks routers and describes the contents of each book.

**Table 1: Juniper Networks Technical Documentation**

Book	Description
<b>JUNOS Internet Software 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>System Basics</i>	Provides an overview of the JUNOS Internet software and describes how to install and upgrade the software. This manual also describes how to configure system management functions and how to configure the chassis, including user accounts, passwords, and redundancy.
<i>Network Interfaces and Class of Service</i>	Provides an overview of the network interface and class-of-service functions of the JUNOS Internet software and describes how to configure the network interfaces on the router.
<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.
<i>Network Management</i>	Provides an overview of network management concepts and describes how to configure various network management features, such as SNMP, accounting options, and cflowd.
<i>Policy Framework</i>	Provides an overview of policy concepts and describes how to configure routing policy, firewall filters, and forwarding options.

Book	Description
<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 router.
<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 Internet Software References</b>	
<i>Network and Services Interfaces Command Reference</i>	Describes the JUNOS Internet software operational mode commands you use to monitor and troubleshoot network and services interfaces on Juniper Networks M-series and T-series routers.
<i>Protocols, Class of Service, Chassis, and Management Command Reference</i>	Describes the JUNOS Internet software operational mode commands you use to monitor and troubleshoot most aspects of Juniper Networks M-series and T-series routers.
<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>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 routers.
<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 Internet Software Comprehensive Index and Glossary</b>	
<i>Comprehensive Index and Glossary</i>	Provides a complete index of all JUNOS Internet software books and the <i>JUNOScript API Guide</i> . Also provides a comprehensive glossary.
<b>Hardware Documentation</b>	
<i>Hardware Guide</i>	Describes how to install, maintain, and troubleshoot routers and router components. Each platform has its own hardware guide.
<i>PIC Guide</i>	Describes the router Physical Interface Cards (PICs). Each router platform has its own PIC guide.
<b>JUNOScope Software Documentation</b>	

<b>Book</b>	<b>Description</b>
<i>JUNOScope Software 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 router configuration files and monitor router operations.
<b>Release Notes</b>	
<i>JUNOS Internet Software Release Notes</i>	Provide a summary of new features for a particular software release. Software release notes also contain 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 router platform 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.

## How to Request Support

For technical support, contact Juniper Networks at [support@juniper.net](mailto:support@juniper.net), or at 1-888-314-JTAC (within the United States) or 1-408-745-9500 (from outside the United States).

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

## Revision History

25 May 2004—Second revision.

27 July 2000—First revision.

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