



530-020767-01

J-series Services Router Quick Start

13 April 2007
Part No.
530-020767-01
Revision 1

J-series Services Routers provide IP routing, WAN and LAN connectivity, and management services. Available in several models, Services Routers typically connect small, branch, or regional offices to a central site, and link Internet service provider (ISP) networks.

Follow these instructions to initially set up a J-series Services Router. You need no previous JUNOS Internet software experience, but must have managed a network and configured other routers. For more information, see the J-series documentation at <http://www.juniper.net/techpubs/>.

What You Need to Know	2
Before You Begin	3
Installing a Services Router	4
Installing a J2300 Services Router	4
Installing a J4300 or J6300 Services Router	5
Installing a J4350 or J6350 Services Router	5
Connecting Power to a Services Router	6
Basic Connection and Configuration with the J-Web Interface	7
1. Connecting, Logging In, and Starting the J-Web Interface	7
2. Updating the Software with the J-Web Interface	8
3. Adding Licenses with the J-Web Interface	8
4. Configuring Basic Settings with J-Web Quick Configuration	8
Basic Connection and Configuration with the CLI	10
1. Connecting, Logging In, and Starting the CLI	10
2. Updating the JUNOS Software with the CLI	11
3. Adding Licenses with the CLI	11
4. Configuring Basic Settings with the CLI	12
J-Web Basics	13
JUNOS CLI Basics	14
Safety Warnings Summary	16
Compliance Statements	18
Requesting Product Support	22

What You Need to Know

Management IP Address When you first connect a management PC or laptop to a built-in Ethernet port on a Services Router, the router acts as a DHCP client and attempts to perform an autoinstallation. If it does not find a DHCP server, the router assigns 192.168.1.1/24 as the IP address for port 0. (If you are connected to port 1, 192.168.2.1/24 is assigned as the IP address. On the J4350 and J6350 routers, port 2 and port 3 are assigned 192.168.3.1/24 and 192.168.4.1/24, respectively.)

Because this address is not part of any explicit configuration, it is removed when you change the configuration *in any way*. You must configure an IP address for this LAN port when you commit your initial configuration. (See “4. Configuring Basic Settings with J-Web Quick Configuration” on page 8 or “4. Configuring Basic Settings with the CLI” on page 12.)

J-Web Access The Web interface to the router—called the J-Web interface—is enabled by default. To configure the router with the Web interface, you attach a PC or laptop to a built-in Ethernet port. The examples in this document use the first built-in Ethernet port:

- On J2300, J4300, and J6300 routers, the first built-in Ethernet port is Fast Ethernet **PORT 0** (internally named **fe-0/0/0**).
- On J4350 and J6350 routers, the first built-in Ethernet port is Gigabit Ethernet port **0/0** (internally named **ge-0/0/0**).

See “1. Connecting, Logging In, and Starting the J-Web Interface” on page 7.

CLI Console Access Services Routers are shipped with a console cable and adapter. To configure a Services Router through the console port with the JUNOS command-line interface (CLI), you use a terminal emulation program such as Microsoft Windows HyperTerminal. (See “1. Connecting, Logging In, and Starting the CLI” on page 10.)

Required Licenses To use the following features on a Services Router, you must purchase a license. (See “3. Adding Licenses with the CLI” on page 11 or “4. Configuring Basic Settings with J-Web Quick Configuration” on page 8.)

- Advanced Border Gateway Protocol (BGP) support for route reflectors
- Data link switching (DLSw)
- J-Flow traffic analysis

Slot Numbers J2300 routers have built-in WAN ports. Other models have slots 1 through 6 for replaceable Physical Interface Modules (PIMs). On J4300 and J6300 routers, PIM slots are numbered from left to right, bottom to top. On J4350 and J6350 routers, PIM slots are numbered from top to bottom, left to right.

Interfaces and Ports Interfaces are named by type, slot number, module number (always 0), and port number. Port numbering starts with 0. For example:

- On J2300, J4300, and J6300 routers, built-in Fast Ethernet LAN **PORT 0** and **PORT 1**, which are in slot 0, are named **fe-0/0/0** and **fe-0/0/1**.

- On J4350 and J6350 routers, the built-in Gigabit Ethernet LAN ports 0/0 through 0/3, which are in slot 0, are named **ge-0/0/0**, **ge-0/0/1**, **ge-0/0/2**, and **ge-0/0/3**.
- On models with replaceable PIMs, the first port on a T1 PIM in slot 1 is named **t1-1/0/0**.

Remote Access Although Telnet and SSH are both supported, they are *disabled* by default.

Before You Begin

Before installing and connecting a Services Router, read “Safety Warnings Summary” on page 16.

Then make sure you have the equipment listed in Table 1.

Table 1: Equipment Required for Services Router Installation

All Models	J2300 Model Only	All Other Models	Management Access
<ul style="list-style-type: none"> ■ Electrostatic discharge (ESD) grounding strap (not provided) ■ For rack or wall installation, a screwdriver appropriate for the screws or anchors (not provided) ■ For AC power, an AC power cord with a plug appropriate for your geographical location (provided) ■ For DC power, 14 AWG DC power cables with appropriate lugs (not provided) ■ For grounding, 14 AWG grounding cable and lug for the router (not provided) 	<ul style="list-style-type: none"> ■ For desk installation, four rubber feet (provided) ■ For rack installation, four mounting screws appropriate for your rack (not provided) ■ For wall installation, four wall screws or anchors capable of supporting the full weight of the chassis, up to 12 lb (5.4 kg) 	<ul style="list-style-type: none"> ■ For rack installation, mounting screws appropriate for your rack (not provided). ■ Routers with redundant power supplies require an AC power cord (provided) or DC power cables (not provided) for each power supply. ■ Mounting brackets are preinstalled on J4300 and J6300 models, and must be installed on J4350 and J6350 models. 	<p>For CLI access:</p> <ul style="list-style-type: none"> ■ Management device, such as a PC or laptop, with a serial port (not provided) ■ RJ-45 console (Ethernet “rollover”) cable, with an RJ-45-to-DB-9 adapter (both provided) <p>For J-Web access:</p> <ul style="list-style-type: none"> ■ Management device, such as a PC or laptop, with an Ethernet port (not provided) ■ Ethernet cable (not provided)

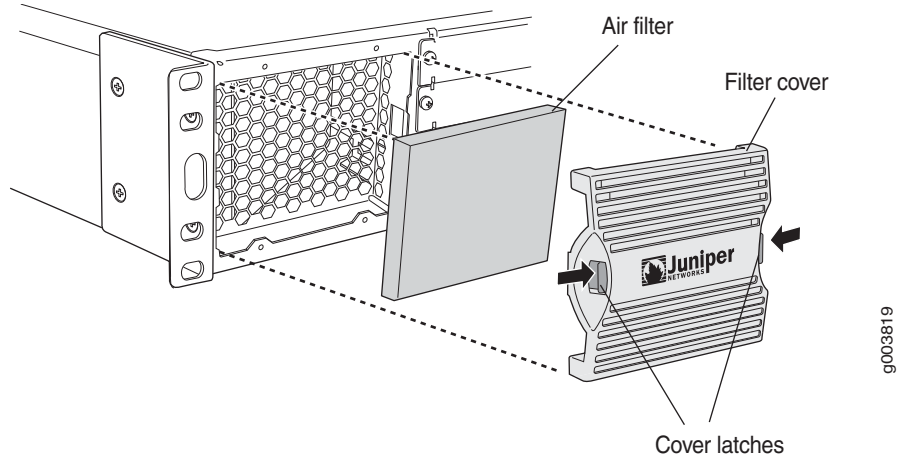


CAUTION: A licensed electrician must attach a cable lug to the grounding and power cables that you supply. A cable with an incorrectly attached lug can damage the router.

If you are installing a J4350 or J6350 Services Router, take the following steps:

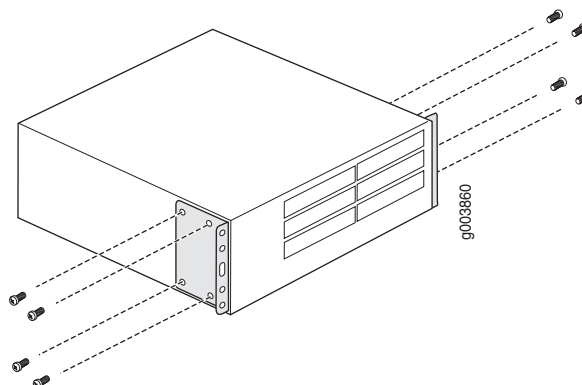
1. Attach the air filter and filter cover, as shown in Figure 1.

Figure 1: Attaching Air Filter and Filter Cover



2. Attach the mounting brackets to either the center or front of the chassis, as shown in Figure 2.

Figure 2: Attaching Mounting Brackets



Installing a Services Router



WARNING: A DC-powered J2300 Services Router is intended for installation in a dedicated equipment room where it is accessible by trained personnel only. Other DC-powered Services Routers are intended for installation in a restricted access location.

Installing a J2300 Services Router

To install a J2300 Services Router on a desk, attach the rubber feet to the underside of the chassis.

To install a J2300 Services Router on a wall, attach the rubber feet to the chassis underside, attach a mounting bracket to each side of the chassis, and attach the brackets to the wall. (For instructions, see the *J2300, J4300, and J6300 Services Router Getting Started Guide*.)

Installing a J4300 or J6300 Services Router

To install a J4300 or J6300 Services Router in a rack:

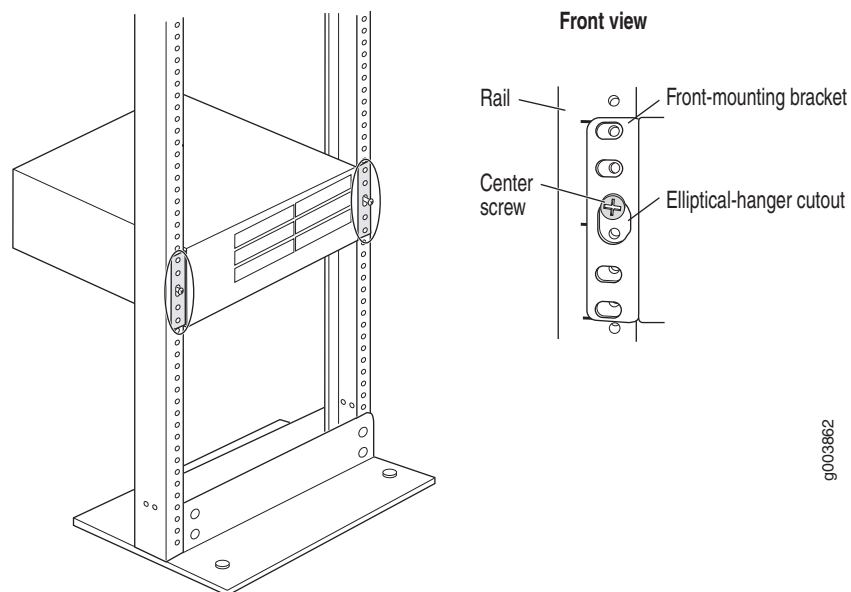
1. Make sure the rack is properly secured to the building in its permanent location.
2. Have one person grasp each side of the router, lift the router, and position it in the rack.
3. Have a second person install a mounting screw into each of the bracket holes that are aligned with the threaded holes in the rack.

Installing a J4350 or J6350 Services Router

To install a J4350 or J6350 Services Router in a rack:

1. Make sure the rack is properly secured to the building in its permanent location.
2. Attach a screw to each rack rail in the third hole down from where you want the top of the router to be positioned, as shown in Figure 3. Screw only part way in, leaving about 1/4 in. (6 mm) distance between the screw head and the rail.
3. Lift the router and insert the elliptical openings in the mounting brackets onto the partially inserted screws so that the router is hanging from the two screws.

Figure 3: Hanging the Router in the Rack



g003862

4. Install at least two mounting screws into each mounting bracket, in addition to the center screws from which the router hangs.

Connecting Power to a Services Router

J2300, J4300, and J4350 Services Routers have a fixed power supply. J6300 and J6350 Services Routers have one or two field-replaceable power supplies.

To connect AC or DC power:

1. Connect the router to earth ground with a 14 AWG grounding cable:
 - a. Connect one end to a proper earth ground point (the rack, for example).
 - b. Remove the screw and washer from the PEM nut on the protective earthing terminal at the rear of the router chassis. (The J4350 and J6350 chassis have two PEM nuts.)
 - c. Secure the other end of the cable to this grounding point with the washer and then with the screw.
2. For an AC power supply only:
 - a. Insert the appliance coupler end of the power cord into the appliance inlet on the router's power supply faceplate.
 - b. Insert the plug into an AC power source receptacle.
 - c. If the power supply includes a on/off switch, turn the switch to on.
3. For a DC power supply only:
 - a. Ensure that the voltage across the DC power source cable leads is 0 volts and that the cable leads cannot become active during installation.
 - b. Remove the clear plastic cover protecting the terminal block.
 - c. Remove the two center screws next to the labels **–48 VDC** and **RTN**.
 - d. Secure the positive (+) DC source power cable lug to the **RTN** terminal, tightening the screw only until snug. Do not overtighten.
 - e. Secure the negative (–) DC source power cable lug to the **–48 VDC** terminal, tightening the screw only until snug. Do not overtighten.
 - f. Replace the plastic cover.
4. Repeat Step 2 or Step 3 for the second power supply, if one is installed.

For complete instructions, see the Getting Started Guide for your router.

Basic Connection and Configuration with the J-Web Interface

For J-Web access, you connect from your management PC or laptop to the Services Router through one of the built-in Ethernet interfaces. The examples in this document use port 0. (For information about the J-Web interface, see “J-Web Basics” on page 13.)

1. Connecting, Logging In, and Starting the J-Web Interface

When the Services Router is powered on for the first time, it searches for a DHCP server, and if it does not find one, it assigns an IP address within the 192.168.1.0/24 subnetwork to any devices connected to it.

To connect to the J-Web interface through port 0/0 on the router:

1. On the management device, such as a PC or laptop, you use to access the J-Web interface, verify that the address of the port that you connect to the router is set to one of the following:
 - An Ethernet address on the 192.168.1/24 subnetwork other than 192.168.1.1
 - An Ethernet address from a DHCP server
2. Turn off the power to the management device.
3. Plug one end of the Ethernet cable into the Ethernet port on the management device.
4. Connect the other end of the Ethernet cable to the built-in Ethernet port on the router.
5. Power on the router by pressing the power button on the front panel.
6. Wait until the **STATUS** LED on the front panel turns solid green.
7. Turn on the power to the management device. The router assigns an IP address to the management device within the 192.168.1/24 subnetwork if the device is configured to use DHCP.
8. From the management device, open a Web browser and enter the IP address 192.168.1.1 in the address field. The Set Up Quick Configuration page appears.
9. Configure basic settings for your router as described in 4. Configuring Basic Settings with J-Web Quick Configuration on page 8.



NOTE: You must manually configure the IP address for the management port you are using before you save your initial configuration. When you save the configuration for the first time, the DHCP lease is lost and you will lose the connection to the router if you have not manually configured the IP address. If you lose connection through the management interface, you must connect through the console port.

2. Updating the Software with the J-Web Interface

After starting up the Services Router, you might want to download the latest version of the JUNOS software from the Juniper Networks Web site and load it onto the router. To update the JUNOS software:

1. Go to <http://www.juniper.net/support>, and follow the links to download the JUNOS software for J-series routers to your PC or laptop.
2. Log in to the J-Web interface
3. Click **Manage > Software > Upload software package**.
4. Click **Browse**, locate the JUNOS software package file on your PC or laptop hard drive, and open the file.
5. Select the check box next to **Reboot If Required**, and click **Upload Package**.

For complete instructions, see the *J-series Services Router Administration Guide*.

3. Adding Licenses with the J-Web Interface

If you purchased one or more licenses, you received an envelope with instructions for obtaining license keys from the Web. To enable each license on the router, you must add the license key. You can add one or more license keys. To add a license key and enable a license:

1. Follow the instructions in your license envelope to generate the license key from the Web site.
2. Copy the license key onto the router with the J-Web interface:
 - a. Click **Manage > Licenses**.
 - b. Enter the license key in one of the following ways:
 - In the License File URL box, type the URL for the license key Web site.
 - Copy the license key text, and paste it into the License Key Text box, separating multiple license keys with a blank line.
 - c. Click **OK**.

For complete instructions, see the Getting Started Guide for your router.

4. Configuring Basic Settings with J-Web Quick Configuration

When you click **OK** or **Apply** on J-Web Quick Configuration pages, the configuration is saved and activated automatically. To configure basic settings with the J-Web interface:

1. If the Set Up Quick Configuration page is not displayed, select **Configuration > Quick Configuration > Set Up**.

2. Enter information in the boxes on the Set Up Quick Configuration page as shown in Table 2, then click **OK** or **Apply**.

Table 2: J-Web Set Up Quick Configuration

Field	Description
Host Name (required)	Hostname of the router—for example, Chicago .
Domain Name	Network or subnetwork that the router belongs to.
Root Password (required)	Root password that user “root” can use to log in to the router.
Verify Root Password (required)	Retyped password.
Time Zone	Time zone in which the router is located.
NTP Servers	NTP server to synchronize the system time.
Current System Time	Your current time and date.
DNS Name Servers	DNS server to resolve hostnames into addresses.
Domain Search	Name of each domain to include in a DNS search.
Default Gateway	Default route. The IP address of a default router that the Services Router can use to direct packets addressed to networks not explicitly listed in the routing table.
Loopback Address	Reserved IP address that is always available on the router. By default, this address is set to 127.0.0.1/32 .
fe-0/0/0 Address or ge-0/0/0 Address	IP address and prefix length of built-in Ethernet port 0. The interface fe-0/0/0 or ge-0/0/0 is typically used as the management interface for accessing the router. The DHCP client sets this address to 192.168.1.1/24 if no DHCP server is found. You must enter the fe-0/0/0 or ge-0/0/0 address on the Quick Configuration Set Up page before you click Apply or OK . If you do not manually configure this address, the DHCP lease is lost and you will lose your connection to the J-Web interface when you click Apply or OK .
Allow Telnet Access	Enables remote access to the router with Telnet.
Allow JUNOScript over Clear-Text Access	Allows JUNOScript to send unencrypted text to the router over a TCP connection.
Allow SSH Access	Enables remote SSH access to the router.

3. To configure additional interfaces:
 - a. Under Quick Configuration, click **Interfaces**, and then click the interface you want to configure.
 - b. On the Interfaces page, click **Add** to add a logical interface.

IP addresses are configured on the logical interface.
 - c. In the two boxes provided, type the IP address (for example, **192.168.1.4**) and the number of bits in the subnet mask (for example, **24**), click **Add**, and then click **OK** or **Apply**.

To edit an existing interface, you click the logical interface.

4. To enable routing protocols, under Quick Configuration click **Routing**.
 - To add static routes, click **Static Routing**.
 - To enable a routing protocol, click the protocol.

When you are finished with a page, click **OK** or **Apply**.

For complete instructions, see the *J-series Services Router Basic LAN and WAN Access Configuration Guide*.

Basic Connection and Configuration with the CLI

For CLI access, you connect from your management PC or laptop to the Services Router through the console port. (For information about the CLI, see “JUNOS CLI Basics” on page 14.)

1. Connecting, Logging In, and Starting the CLI

You are prompted for a username and password. The default username is **root**. Because no password is initially required, press Enter at the password prompt for a first-time login.

To access a Services Router with the JUNOS CLI:

1. Turn off power to the management PC or laptop.
2. Connect one end of the console cable to the serial port adapter, plug the adapter into a serial port on the PC or laptop, and plug the other end of the cable into the console port on the Services Router.
3. Turn on power to the PC or laptop.
4. On the PC or laptop, start the terminal emulation program (such as Microsoft Windows HyperTerminal), select the **COM** port, and configure the following port settings: **9600** (bits per second), **8** (data bits), **none** (parity), **1** (stop bits), and **none** (flow control).
5. Press the **POWER** button on the router, and verify that the **POWER** LED turns green.
6. Wait for the system to boot, and when presented with a login prompt, log in as **root**, and press Enter at the **Password** prompt.

When you have been authenticated through the CLI, you enter the UNIX shell:

```
routername (ttyd0)

login: root
Password:

JUNOS 8.0R1 2006-07-01 01:59:49 UTC

root@%
```

7. At the % prompt, type the `cli` command and press Enter. The prompt changes to an angle bracket (>) when you enter CLI operational mode.

```
root@% cli
root>
```

For complete instructions, see the Getting Started Guide for your router.

2. Updating the JUNOS Software with the CLI

After starting up the Services Router, you might want to download the latest version of the JUNOS software from the Juniper Networks Web site and load it onto the router. You can use the CLI, but we recommend the J-Web interface for the download.

To update the JUNOS software with the CLI:

1. Go to <http://www.juniper.net/support>, and follow the links to download the JUNOS software for J-series routers to an FTP server.
2. Download the JUNOS software to the router with the CLI or J-Web interface:

```
root> request system software add validate unlink reboot source
```

For complete instructions, see the *J-series Services Router Administration Guide*.

3. Adding Licenses with the CLI

If you purchased one or more licenses, you received an envelope with instructions for obtaining license keys from the Web. To enable each license on the router, you must add the license key. You can add one or more license keys from the CLI.

To add a license key and enable a license:

1. Follow the instructions in your license envelope to generate the license key from the Web site.
2. Copy the license key onto the router with the CLI:

- a. Type the following command, and press Enter:

```
root> request system license add terminal
```

- b. When prompted, copy and paste the license key from the Web site at the command line, separating multiple license keys with a blank line.
- c. To exit license key entry, press Ctrl + D.

For complete instructions, see the Getting Started Guide for your router.

4. Configuring Basic Settings with the CLI

In CLI configuration mode, you use the **set** command to enable features, and the **delete** command to disable them. The commands you enter do not update the active configuration on the router until you use the **commit** command.

To configure basic settings with the CLI:

1. From the CLI, enter configuration mode:

```
root> configure
root#
```

2. Set the IP addresses of the built-in Ethernet ports. For example:

- On a J2300, J4300, or J6300 router:

```
root# set interfaces fe-0/0/0 unit 0 family inet address 192.168.1.1/24
root# set interfaces fe-0/0/1 unit 0 family inet address 192.168.2.1/24
```

- On a J4350 or J6350 router:

```
root# set interfaces ge-0/0/0 unit 0 family inet address 192.168.1.1/24
root# set interfaces ge-0/0/1 unit 0 family inet address 192.168.2.1/24
root# set interfaces ge-0/0/2 unit 0 family inet address 192.168.3.1/24
root# set interfaces ge-0/0/3 unit 0 family inet address 192.168.4.1/24
```

The unit number is the logical interface number. IP addresses are configured on the logical interface. Setting the protocol family to **inet** specifies the routing table of IPv4 addresses.

3. Set a default route (default gateway) for IPv4 packets. For example:

```
root# set routing-options static route 192.168.1.254/24 next-hop 10.1.1.50
```

4. Configure one or more static routes:

```
root# set routing-options static route destination-prefix next-hop address
```

5. Set the hostname. For example:

```
root# set system host-name Chicago
```

6. Save your configuration settings and activate them on the Services Router:

```
root# commit
```

For complete instructions, see the *J-series Services Router Basic LAN and WAN Access Configuration Guide*.

J-Web Basics

The taskbar at the top of the J-Web interface identifies the main J-Web functions. You access specific tasks on the left.

- Monitor—Output from common **show** commands
- Configuration—Quick Configuration wizards and a graphical version of the CLI
- Diagnose—Ping, traceroute, and packet capture
- Manage—Configuration file management and licenses
- Events—System log messages
- Alarms—Active alarms

The first time you connect to a Services Router with the J-Web interface, you bypass the login page and go directly to the Set Up Quick Configuration page. At subsequent logins, you go directly to the System Monitor page.

Click **Monitor** to display information about the system (system serial number, CPU, and memory usage), interfaces, configured routes, and other Services Router functions.

Click **Configuration** to access Quick Configuration “wizard” pages for common configuration tasks such as initial setup, certificate installation, basic routing setup, and creation of firewall filters and IPSec tunnels. Each new release of the JUNOS software adds more Quick Configuration features.

For configuration details and tasks not covered by Quick Configuration, you can access a graphical version of the JUNOS CLI known as the J-Web configuration editor. Select **Configuration > View and Edit Configuration > Edit Configuration** to display a list of configurable features—like the list displayed when you enter **set ?** in CLI configuration mode.

When you click **OK** or **Apply** on J-Web Quick Configuration pages, the configuration is saved and activated automatically. In contrast, you must click **Commit** to apply changes on J-Web configuration editor pages.

For complete information about J-Web configuration features, see the *J-series Services Router Basic LAN and WAN Access Configuration Guide*.

JUNOS CLI Basics

After you start the CLI with the `cli` command, type a question mark (?) to display a list of the available commands:

```
root> ?
Possible completions:
clear          Clear information in the system
configure      Manipulate software configuration information
file           Perform file operations
help           Provide help information
monitor        Show real-time debugging information
mtrace         Trace multicast path from source to receiver
ping           Ping remote target
quit           Exit the management session
request        Make system-level requests
restart        Restart software process
set            Set CLI properties, date/time, craft interface message
show           Show system information
ssh            Start secure shell on another host
start          Start shell
telnet         Telnet to another host
test           Perform diagnostic debugging
traceroute     Trace route to remote host
```

To display the options available for a command, type the command followed by a space and a question mark:

```
root> show ?
Possible completions:
accounting      Show accounting profiles and records
aps             Show Automatic Protection Switching information
arp             Show system Address Resolution Protocol table entries
as-path         Show table of known autonomous system paths
bfd             Show Bidirectional Forwarding Detection information
bgp             Show Border Gateway Protocol information
chassis         Show chassis information
class-of-service Show class-of-service (CoS) information
cli             Show command-line interface settings
configuration   Show current configuration
connections     Show circuit cross-connect connections
dialer          Show dialer information
dlsw            Show DLSw information
---(more 93%)---
```

To use command completion, type the first few letters of a command and press the Spacebar or the Tab key.

For example, when you type the following partial command, the system completes the command `show chassis hardware` and displays hardware information:

```
root> sh<tab> ch<tab> h<tab>
Hardware inventory:
```

Item	Version	Part number	Serial number	Description
Chassis			JN000212AA	J2300
Routing Engine	RevX1.8	710-009989	CORE97133	RE-J.1
FPC 0	RevX1.5	710-009991	CORE96352	FPC
PIC 0				2x FE, 2x Serial

Type the following partial command to display the JUNOS software version running on the router:

```
root> sh ver
Hostname: host
Model: j2300
JUNOS Software Release [8.0-20060607.0] (Export edition)
```

To access configuration mode, enter the `configure` command. The prompt changes to a pound sign (#).

```
root> configure
root#
```

To activate changes to the configuration, enter the `commit` command.

```
root> commit
root#
```

To exit configuration mode, enter the `exit` command. Use the `exit` command again to exit the CLI completely.

```
root# exit
root> exit
root@%
```

Safety Warnings Summary



NOTE: This is a summary of safety warnings. For a complete list of warnings, including translations, see the Getting Started Guide for your router at <http://www.juniper.net/techpubs/>.

- Permit only trained and qualified personnel to install or replace Services Router components.
- The equipment is suitable for installation in locations where the National Electrical Code (NEC) applies, as well as in Network Telecommunication Facilities.
- Perform only the procedures described in this quick start and the Getting Started Guide for your router. Other services must be performed by authorized service personnel only.
- Before you connect a Services Router to a power source, read the installation instructions in the Getting Started Guide for your router.
- Before installing the router, read the guidelines about preparing for router installation in the Getting Started Guide for your router, to make sure that the site meets power, environmental, and clearance requirements for the router.
- When installing the Services Router, do not use a ramp inclined at more than 10 degrees.
- We recommend that two people perform installation of J4300 and J6300 Services Routers. Have one person lift the router into position and a second person secure the mounting screws. To prevent injury, keep your back straight and lift with your legs, not your back.
- Mount the Services Router at the bottom of the rack if it is the only unit in the rack.
- When mounting the Services Router in a partially filled rack, load the rack from the bottom to the top, with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the Services Router in the rack.
- When removing or installing an electrical component, always place it component-side up on a flat antistatic surface or in an electrostatic bag.
- Do not work on the system or connect or disconnect cables during electrical storms.
- Before working on equipment that is connected to power lines, remove jewelry, including rings, necklaces, and watches. Metal objects heat up when connected to power and ground and can cause serious burns or become welded to the terminals.
- Failure to observe these safety warnings can result in serious physical injury.

- AC power cable warning (Japan):



WARNING: The attached power cable is only for this product. Do not use the cable for another product.

注意

附属の電源コードセットはこの製品専用です。
他の電気機器には使用しないでください。

g017253

Compliance Statements



Declaration of Conformity

Juniper Networks, Inc.
1194 N. Mathilda Ave
Sunnyvale, CA. 94089 USA

declares that under our sole responsibility the product(s)

**Internet Router
Model J4350/J6350**

are in conformity with the provisions of the following EC Directives, including all amendments,
and with national legislation implementing these directives:

**Low Voltage Directive 73/23/EEC
EMC Directive 89/336/EEC**

and that the following harmonized standards have been applied

EN 60950-1: 2001 + A11
EN 60825-1: 1994 +A1+A2

EN 300 386 V1.3.1:2001

EN 55024:1998

EN 55022:1998+A1+A2
EN 61000-3-2, EN 61000-3-3
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6, EN 61000-4-11

A handwritten signature in black ink, appearing to read "John Lockwood".

Place
Sunnyvale, CA

Signature
John Lockwood

Date
10/09/2006



DOC 0014

Declaration of Conformity

Juniper Networks, Inc.
1194 N. Mathilda Ave
Sunnyvale, CA. 94089 USA

declares that under our sole responsibility the product(s)

J2300 Services Router

are in conformity with the provisions of the following EC Directives, including all amendments,
and with national legislation implementing these directives:

Low Voltage Directive 73/23/EEC
EMC Directive 89/336/EEC

and that the following harmonized standards have been applied

EN 60950:1992+A1+A2+A3+A4+A11

EN 300 386 V1.3.1:2001

EN 55024:1998

EN 55022:1998, Class B

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6

Place
Sunnyvale, CA

Signature
John Lockwood

Date
08/09/2005



DOC 0015

Declaration of Conformity

Juniper Networks, Inc.
1194 N. Mathilda Ave
Sunnyvale, CA. 94089 USA

declares that under our sole responsibility the product(s)

J4300 Sevices Router

are in conformity with the provisions of the following EC Directives, including all amendments,
and with national legislation implementing these directives:

Low Voltage Directive 73/23/EEC
EMC Directive 89/336/EEC

and that the following harmonized standards have been applied

EN 60950:1992+A1+A2+A3+A4+A11

EN 300 386 V1.3.1:2001

EN 55024:1998

EN 55022:1998, Class B

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6

A handwritten signature in black ink, appearing to read "John Lockwood", with a small superscript "h" to the right.

Place
Sunnyvale, CA

Signature
John Lockwood

Date
08/09/2005



DOC 0016

Declaration of Conformity

Juniper Networks, Inc.
1194 N. Mathilda Ave
Sunnyvale, CA. 94089 USA

declares that under our sole responsibility the product(s)

J6300 Services Router

are in conformity with the provisions of the following EC Directives, including all amendments,
and with national legislation implementing these directives:

Low Voltage Directive 73/23/EEC
EMC Directive 89/336/EEC

and that the following harmonized standards have been applied

EN 60950:1992+A1+A2+A3+A4+A11

EN 300 386 V1.3.1:2001

EN 55024:1998

EN 55022:1998, Class B

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6

Place
Sunnyvale, CA

Signature
John Lockwood

Date
08/09/2005

Requesting Product Support

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).

Copyright © 2007, Juniper Networks, Inc. All rights reserved.

Juniper Networks, the Juniper Networks logo, NetScreen, and ScreenOS are registered trademarks of Juniper Networks, Inc. in the United States and other countries. JUNOS and JUNOSe are trademarks of Juniper Networks, Inc. All other trademarks, service marks, registered trademarks, or registered service marks are the property of their respective owners.

Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Products made or sold by Juniper Networks or components thereof might be covered by one or more of the following patents that are owned by or licensed to Juniper Networks: U.S. Patent Nos. 5,473,599, 5,905,725, 5,909,440, 6,192,051, 6,333,650, 6,359,479, 6,406,312, 6,429,706, 6,459,579, 6,493,347, 6,538,518, 6,538,899, 6,552,918, 6,567,902, 6,578,186, and 6,590,785.