

WX 15, WX 20 and WXC 250 Quick Start



Welcome to the Juniper WX 15, WX 20, and WXC 250 application acceleration platforms quick start. These one rack-unit (1U) network infrastructure devices are deployed on the LAN side of the edge router. This quick start card describes how to install the WX/WXC in the data path between a switch and a router. To install the WX/WXC “off-path” (connected only to the switch or router), refer to the WX/WXC Operator’s Guide.

If you have any problems with the licensing process, open a support case using the Case Management link at <http://www.juniper.net/support/>. To call from the United States, Canada, or Mexico, dial 1-888-314-JTAC. To call from other locations, check the list of local support centers at http://www.juniper.net/support/support_contacts.html or dial 1-408-745-9500.

Before You Begin

- Inspect the package contents. Refer to the package contents document enclosed with the product.
- Ensure sufficient power is available. Supply circuits should be protected by a 15 A or 20 A circuit breaker.
- Ensure a minimum of six inches clearance in the front and back of the chassis. For a WX 15, provide three inches of clearance on both sides of the chassis to allow cooling air to be drawn through the side panels.
- Verify that all firewalls between WX devices allow traffic on:
 - TCP/UDP ports 3577 and 3578
 - IP payload compression protocol (protocol number 108).
- Identify a 10/100 Ethernet LAN port that transmits data to your WAN router. This port is typically from an aggregation switch, or from another LAN device connected directly to the router.
- Obtain a license key. The license key determines the throughput levels for the device, and properly registers the product. To obtain a permanent license key, go to:

https://www.juniper.net/generate_license

If you operate the platform at its base speed, only the serial number is needed to generate a permanent license. If you purchased license upgrades, you will need the Authorization Code Certificate that was emailed to you in electronic PDF format.

Installation

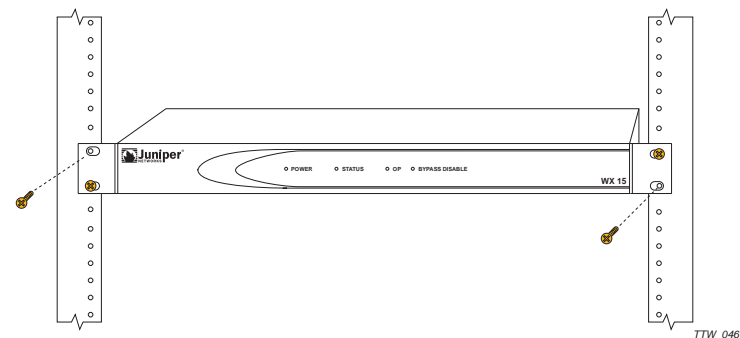
Perform the following steps to install your WX 15, WX 20 or WXC 250 platform:

1. Set up the chassis.

- For rack mount installation, install the supplied brackets, front panel forward, to the sides of the device (Figure 1).
- For desktop installation, install the rubber stands in the recessed areas on the bottom of the chassis (pre-installed on the WX 15 platform).

NOTE: Do not connect the power cable until Step 4.

Figure 1. Mounting a WX/WXC device in a rack

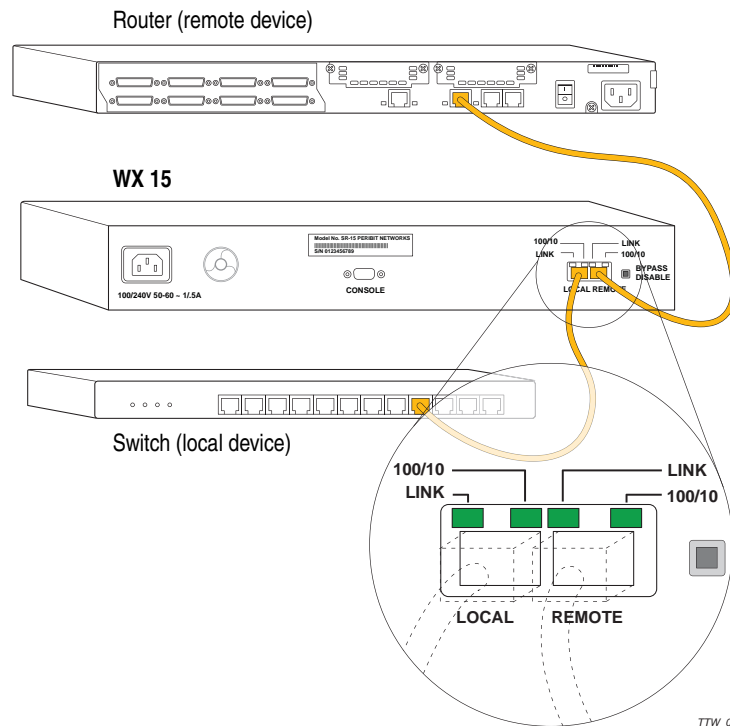


2. Connect the network cables.

- Locate the cable that connects from the switch (or other aggregating device) to the router.
- Disconnect this cable from the router port and connect it to the LOCAL port on the WX/WXC device.
- Connect a straight-through cable (not provided) from the router port to the REMOTE port on the WX/WXC device.

See Figure 2.

Figure 2. Connecting network cables to a WX/WXC device



3. Verify connectivity across the WX/WXC device.

One method of testing connectivity between devices is to Ping a host on the remote side of the device from a host on the local side of the device.

NOTE: If you are not able to verify connectivity on both sides of the device, do not proceed to the next step. Ensure that you are using the correct cables (crossover vs. straight-through), and verify that there is network connectivity before applying power.

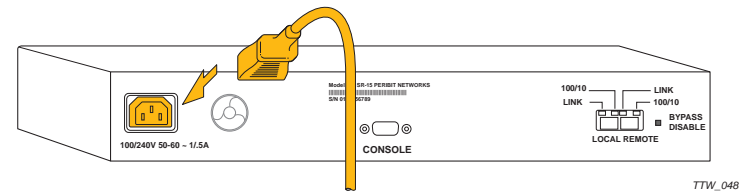
4. Connect the power.

Connect the power cable to the back of the chassis, and then connect the other end of the power cable to your local power source (Figure 3).

NOTE: The power usage is 50 Watts Max or 170 BTU/hr for the WX 15, and 150 Watts Max or 510 BTU/hr for the WX 20 and WXC 250.

STOP: You may be able to use the autodeployment feature of the WX CMS software to configure the device automatically. Refer to the CMS administrator's guide for more information or continue with Step 5.

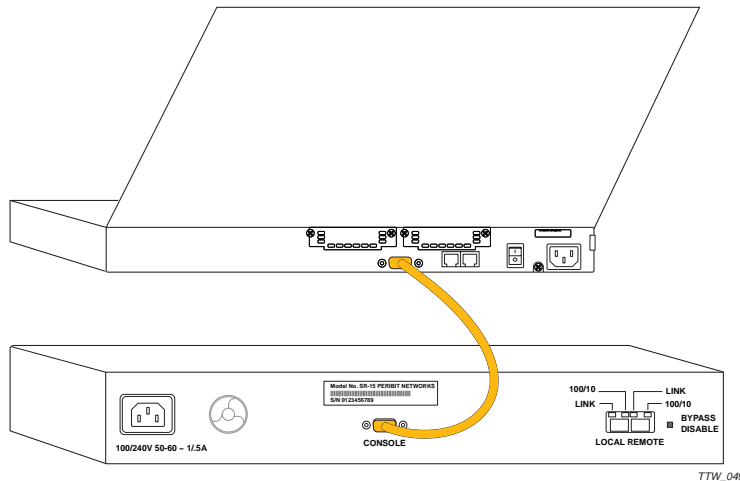
Figure 3. Connecting power to a WX/WXC device



5. Configure network settings.

Connect an ANSI-compatible terminal to the serial port, and use a terminal emulation program (e.g., HyperTerminal) to log in to the CLI (Figure 4).

Figure 4. Connecting a WX/WXC to a serial port



Use the following serial port settings:

Baud Rate: **9600** Parity: **NONE** Flow Control: **NONE**
Data Bits: **8** Stop Bits: **1** Smooth-Scroll: **DISABLED**

- Start the terminal emulation program, and choose to connect via the serial port.
- At the User name and Password prompts, type **admin** for the user name and **juniper** for the password.
- Type an IP address and then press **Enter**.
- Next, type the subnet mask for the network and then press **Enter**.

- Finally, type the default gateway for this device and then press **Enter**.
- Type **save-config** and type **y** to confirm. You can safely bypass the other configuration questions at this time.

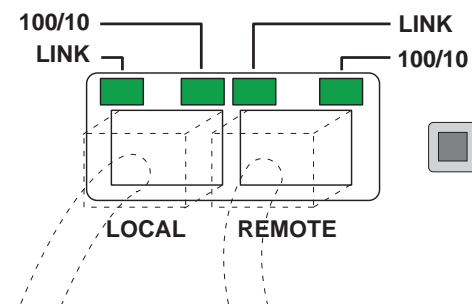
NOTE: By default, the 10/100 interfaces are set to auto-negotiate the speed and duplex mode. However, you may want to set the interface speed and duplex mode manually. The LOCAL port settings should match the interface settings of the switch, and the REMOTE port settings should match the interface settings of the router.

6. Check the LEDs next to the 10/100 Ethernet ports.

- If the LINK LEDs illuminate, the device is properly connected (Figure 5).
If they do not illuminate, toggle the MDI/MDI-X buttons (WX 20 and WXC 250 platforms only).
- The 100/10 LEDs indicate 100 Mbps connectivity.
- On the WX 15 platform, press Bypass Disable to block traffic during a power failure (used in high-availability environments).

After checking the LEDs, verify connectivity across the device again (as described in Step 3).

Figure 5. Verifying network connectivity



Quick Setup

After powering on the device and assigning IP parameters, the next step is to log in to the Web console and run the Quick Setup program. The first time you log in to the Web console, the Quick Setup program starts automatically and guides you through initial configuration options for the device.

You can log in to the Web console from any workstation within your network. The Web console supports Microsoft Internet Explorer version 6.0. Data is securely transmitted through HTTPS.

To log in to the Web console and run Quick Setup, follow these steps:

1. From a workstation within your network, start your Web browser and enter the following URL:

https://(ip address of the WX device)

- If the Security Alert dialog box appears, click **Yes** to proceed.
- In the Login page, type **admin** for the user name and **juniper** for the password. Click **Login**.

2. Select an operating mode.

A device can run in Active mode or Demo Mode.

- Active Mode—Device is actively reducing data, accelerating TCP applications, and managing bandwidth.
- Demo Mode—Device is operating passively. It can calculate potential data compression statistics for all traffic, individual applications, and specific remote subnets; however, the actual traffic is not affected.

NOTE: To use Demo Mode, the device's Local interface must be connected to a mirrored port on the switch, and the Remote interface must be disconnected. If you have installed the device inline, do *not* select Demo Mode as data will be dropped.

For more information about Demo Mode, refer to the Operator's Guide.

- If you select Active Mode, click **Next** to continue. If you select Demo Mode, click **Next**, and then click **Finish**.

3. Set the time.

- Enter the current date and time or, if your network uses an NTP server for time settings, select **Use NTP Server** and enter the IP address of the NTP server in the Primary field. A secondary NTP server is optional.
- Select the local time zone for the device.
- Click **Next** to continue.

4. Designate a registration server.

One device must be designated as the Registration Server.

- If this device is not the registration server, enter the IP address and password of the current (or future) registration server in the appropriate fields. This device will not process data until the registration server is configured.
- To designate this device as the registration server, select **Make this device the Registration Server**, and enter the registration server password in both fields.

The registration server password authenticates the devices in a community, and should be different from the administrator password.

- Click **Next** to continue.

5. Enter a license key.

By default, each device has a 30-day evaluation license. When the evaluation license expires, data will pass through the device without any processing.

- If you have a permanent license key, select **Enter license key now**, and enter the key in the **License key** field.
- Click **Next**, and then click **Finish**.

Where to Go Next

Initial configuration is complete. Please refer to the operator's guide to configure policy settings for the device. The latest WX/WXC Operator's Guide and WX CMS Administrator's Guide can be found at the following website:

<http://www.juniper.net/techpubs/hardware/wx>

The latest WXOS and CMS Release Notes can be found at the Juniper CSC (Customer Support Center) Website (requires customer login):

<https://www.juniper.net/customers/csc/software/appaccel/wxseries>

For technical support, open a support case using the Case Management link at <http://www.juniper.net/support/>. To call from the United States, Canada, or Mexico, dial 1-888-314-JTAC. To call from other locations, check the list of local support centers at http://www.juniper.net/support/support_contacts.html or dial 1-408-745-9500.