

# WX 100 Quick Start

1000 Mbps LC Fiber-Optic Connectors or 10/100/1000 BaseT Ethernet Interfaces



Welcome to the Juniper WX 100 application acceleration platform. This 2-rack unit network infrastructure device has 1000 Mbps fiber-optic connectors or 10/100/1000 BaseT Ethernet interfaces, and is deployed on the LAN side of the edge router. This quick start card describes how to install the WX 100 in the data path between a switch and a router. To install the WX 100 “off-path” (connected only to the switch or router), refer to the WX/WXC Operator’s Guide.

## Before You Begin

- Fiber-optic connectors do not support the “switch-to-wire” feature. Therefore, it is strongly recommended that you install a WX 100 with fiberoptic connectors in a high-availability (HA) environment.
- 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 maximum 20 A circuit breaker.
- Ensure a minimum of six inches clearance in the front and back of the chassis.
- Reserve sufficient rack space to connect client WX devices to the WX 100.
- Verify that firewalls between WX and WXC devices allow traffic for:
  - TCP/UDP ports 3577 and 3578
  - IP payload compression protocol (protocol number 108)
- Identify a fiber-optic LAN port or a 10/100/1000 BaseT Ethernet 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  
[http://www.juniper.net/generate\\_license](http://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.

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](http://www.juniper.net/support/support_contacts.html) or dial 1-408-745-9500.

## Installation

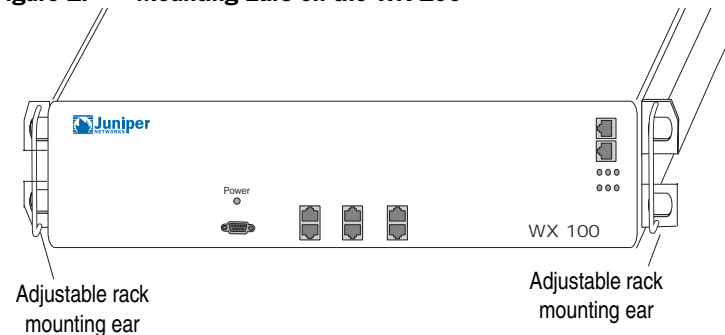
Perform the following steps to install your WX 100 platform:

### 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.

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

**Figure 1. Mounting Ears on the WX 100**



## 2. Connect the network cables.

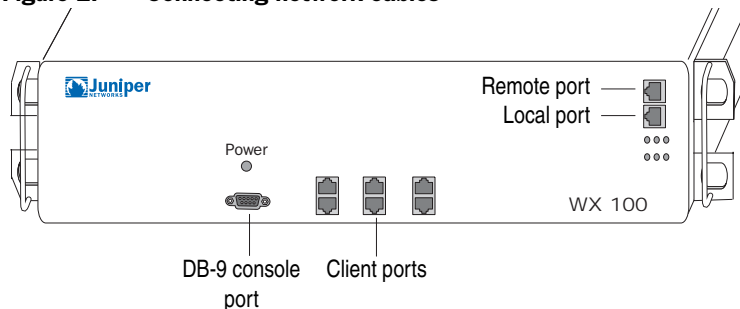
For a WX 100 with LC fiber-optic connectors, you must obtain the appropriate conversion unit if the Switch (local device) or Router (remote device) uses a different type of fiber-optic connector.

To 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 100. See Figure 2.
- Connect a crossover cable or a fiber-optics cable with an LC connector (not provided) from the router port to the Remote port on the WX 100.

**IMPORTANT:** Fiber-Optic connectors do not support the “switch-to-wire” feature. Therefore, it is strongly recommended that you install a WX 100 with fiber-optic connectors in a high-availability (HA) environment.

**Figure 2. Connecting network cables**



## 3. Verify bypass connectivity (not required for a fiber-optic WX 100).

Before applying power, verify that a WX 100 power failure will not block network traffic. One way of testing the bypass connectivity is to Ping a host on the remote side of the WX 100 from a host on the local side of the WX 100.

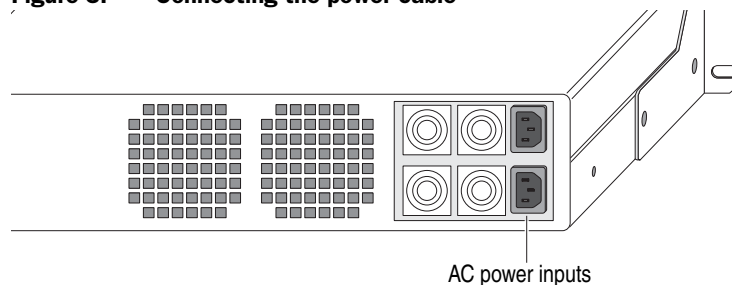
**NOTE:** If you are not able to verify connectivity on both sides of the device, do not proceed to the next step. Ensure that you are using the correct cables (crossover vs. straight-through), and verify that there is network connectivity before applying power.

## 4. Connect the power.

Connect a power cable to each of the power supplies on the back of the chassis, and connect the other end of the power cables to your local AC power source (Figure 3). If one power supply stops functioning, the other power supply can continue providing full power indefinitely. A failed power supply can be removed and replaced while the device is running.

**NOTE:** The power usage is 300 Watts Max or 1025 BTU/hr. When you want to disconnect power from the device, unplug BOTH power cables.

**Figure 3. Connecting the power cable**



**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.

## 5. Configure network settings.

Connect an ANSI compatible terminal to the console port, and use a terminal emulation program (e.g., HyperTerminal) to log in to the CLI. Note the following serial port settings:

Baud Rate: **9600**, Data Bits: **8**, Parity: **NONE**, Stop Bits: **1**,  
Flow Control: **NONE**, 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 peribit for the password.
- Type an IP address, and press Enter. Next, type the subnet mask for the network, and press Enter. Finally, type the IP address of the default gateway for this device, and 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 interfaces are set to auto-negotiate. However, depending on the interface settings of the switch and router (auto-negotiate or 1000/Full) it is recommended that you set the interface speed manually. The Local port setting should match the interface settings of the switch, and the Remote port setting should match the interface settings of the router. It is also recommended that the Local and Remote interface settings be the same.

## 6. Check the LEDs below the Local and Remote interfaces.

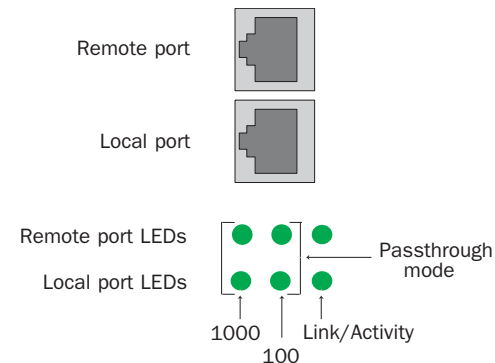
The BaseT Ethernet version has two rows of three LEDs (Figure 4):

- The Link/Activity LEDs indicate connectivity.
- The 100 and 1000 LEDs indicate the interface speed in Mbps.
- If the 100 and 1000 LEDs are off, the interface speed is 10 Mbps.
- If all 100 and 1000 LEDs are on, the device is in passthrough mode.

The fiber-optic version has one LED for each interface to indicate 1000 Mbps.

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

**Figure 4. 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.

- 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. Registration Server setup.

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](http://www.juniper.net/support/support_contacts.html) or dial 1-408-745-9500.

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