



# WXC 590 QUICK START

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Welcome to the Juniper WXC 590 application acceleration platform. This 2U rack unit network infrastructure device is deployed on the LAN side of the edge router. This quick start card describes how to install the WXC 590 in the data path between a switch and a router. To install the WXC 590 “off-path” (connected only to the switch or router), refer to the WX/WXC Operator’s Guide.

## Before you begin:

- Inspect the package contents. Refer to the package contents document enclosed with the product.
- Ensure sufficient AC power is available. Supply circuits should be protected by a maximum 20A circuit breaker.
- Ensure a minimum of 6 inches clearance in the front and back of the chassis, and 3 inches clearance on both sides.
- Verify that all firewalls between WX devices allow traffic for TCP/UDP ports 3577 and 3578, and for IPComp, the IP payload compression protocol used for reduction tunnels between devices (protocol number 108).
- Identify a 10/100/1000 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 [https://www.juniper.net/generate\\_license](https://www.juniper.net/generate_license).

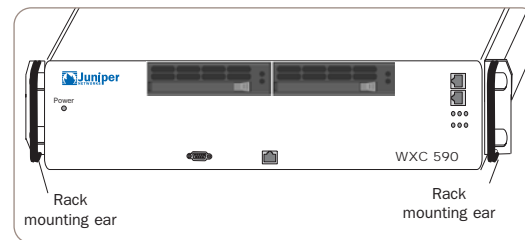
# Installation:

### ❶ Set up the chassis.

- For rack mount installation, use the installed brackets to mount the device in your network device rack, front panel forward.
- For desktop installation, install the supplied rubber stands on the bottom of the chassis.

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

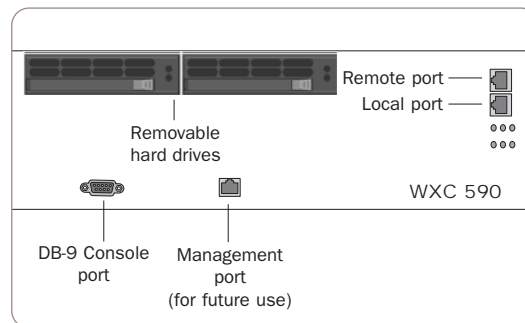
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### ❷ Connect the network cables.

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 WXC 590.
- Connect a straight-through cable (not provided) from the router port to the Remote port on the WXC 590.



### ❸ Verify bypass connectivity

Before applying power, verify that a WXC 590 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 WXC 590 from a host on the local side of the WXC 590.

**NOTE:** If you cannot verify bypass 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 you have bypass connectivity before applying power.

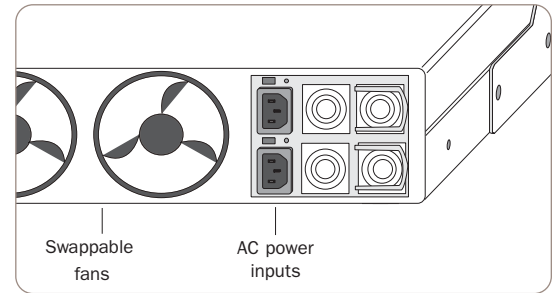
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#### 4 Connect the power.

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. 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.

**STOP:** If you have CMS 5.0 (or later), you can stop here and use auto-deployment to configure the device automatically.



#### 5 Configure the 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**

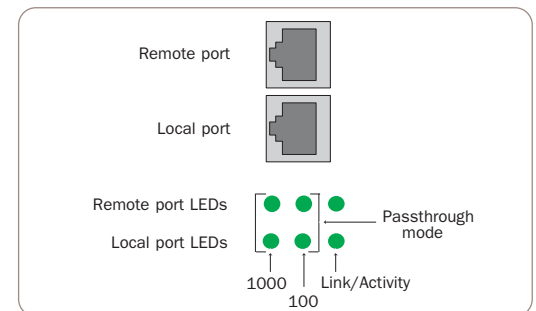
- Start the terminal emulation program, and choose to connect via the serial port.
- At the User name and Password prompts, type **admin** for the user name and **peribit** for the password.
- Type an IP address, and press **Enter**. Next, type the subnet mask for the network, and press **Enter**. Finally, 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, 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 WXC 590 has two rows of three LEDs:
  - 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.

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



### 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 in your network. The Web console supports Microsoft Internet Explorer version 6.0 (and later). Data is securely transmitted through HTTPS.

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

**❶ From a workstation in your network, start your Web browser and enter the following URL:**

`https://[IP address of the WXC 590]`

- Depending on your browser settings, the Security Alert dialog box may appear. Click **Yes** to proceed.
- In the Enter Network Password dialog box, type **admin** for the user name and **peribit** for the password.

**NOTE:** This is a factory-configured password for the device. You will be asked to change the default password during the Quick Setup.

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**❷ Select an Operating Mode.**

A device can run in Active mode or Profile Mode.

- **Active Mode** — Active operation where the device reduces data, accelerates TCP applications, and manages bandwidth.
- **Profile Mode** — Passive operation where the device can calculate potential data reduction statistics for all traffic, individual applications, and specific remote subnets. The actual traffic is not affected.

**CAUTION:** Profile Mode disables the Remote interface. To use Profile Mode, the device's Local interface must be connected to a mirrored port on the switch, and the Remote interface must be disconnected. Traffic will be blocked if you select Profile Mode when the device is installed in the data path.

For more information about Profile Mode, refer to the WX/WXC Operator's Guide.

- Click **Next** to continue.
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### ③ Registration Server Setup.

One device must be designated as the Registration Server.

- To designate this device as the registration server, enter a registration server password in the appropriate fields.  
The registration server password authenticates the devices in a community, and should be different from the administrator password.
  - 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.
  - If you select the option to delay the formation of reduction tunnels, this device will not reduce or assemble data from other devices until you enable reduction tunnel formation in the Endpoints page of the Web console.
  - Click **Next** to continue.
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### ④ Set the Time.

- If your network uses an NTP server for device time settings, enter the IP address of the NTP server. Otherwise, enter the current time, date, and local time zone for the device. If applicable, select the **Daylight Savings** checkbox.
  - Click **Next** to continue.
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### ⑤ Specify Feature and Topology Settings.

The feature and topology settings ensure that device resources are used efficiently to reduce and assemble data.

- Select Active Flow Pipelining (AFP) or AFP and Application Flow Acceleration if you want to use these features. Note that the WXC 590 requires AFP for optimum performance.
  - Choose the topology setting that best describes the device's relationship to the other WX devices in the community (Hub, Spoke, or Mesh). For a Hub or Mesh device, select the range of devices in the community.
  - Enter the sum of the speeds for all the outbound circuits on the adjacent router that carry traffic from the WXC 590 to the WAN. If the speed is variable, enter the maximum speed (up to the Ethernet speed of the WXC 590). The WAN circuit speed is advertised to the remote WXC devices as the maximum speed at which to access this device.
  - Click **Next** to continue.
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### ⑥ Advertise Local subnet.

By default, the device's local subnet is not advertised to the other WX devices in the community. As a result, data destined for this subnet is not reduced — even if there is a WX device in the path.

- If you want other WX devices to reduce data destined for this subnet, select the **Advertise** checkbox.  
If you choose not to advertise the local subnet, you should review the Reduction Subnets page of the Web console after completing the Quick Setup.
  - In the Device name field, you can assign a name for the device.
  - Click **Next** to continue.
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### ⑦ 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 reduction.

If you have purchased the device, you can use the serial number to obtain a permanent license key through the Online License Service. The License Key server is accessible by clicking **Online Service** or by calling Support at 1-888-314-JTAC (or 408-745-9500).

- Enter the permanent license key in the License key field.
  - Click **Next** to continue.
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### ⑧ Change Administrator password.

- Enter a new Administrator password in the New password and Verify new password fields, and then click **Finish**.

**NOTE:** If you deselect the “automatic save” option, configuration settings will be reset by the next power cycle.

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## Where to go next:

The initial configuration is complete. To configure all policy settings, refer to the WX/WXC Operator's Guide, which is located on the Documentation/Utilities CD. For additional product support information, visit our Web site at <http://www.juniper.net/support>. If you need additional assistance, please contact Customer Care at 1-800-638-8296 (in the United States) or +1-408-936-1572 (outside the United States).