JUNIPER NETWORKS® | **Engineering** Simplicity

Quick Start

Cloud-Ready EX and QFX Switches with Mist

IN THIS GUIDE

Step 1: Begin

IN THIS SECTION

This guide walks you through the simple steps to get a new greenfield cloud-ready EX or QFX switch up and running in the Juniper Mist AI cloud portal. You can onboard one or more switches using your computer, or a single switch using your mobile phone.

> ⓘ **NOTE**: Before you begin, you must set up your organization and sites, and activate your subscriptions. For more information, see Quick Start: Mist.

We describe two different ZTP-based onboarding methods. To onboard:

- a single switch using your mobile phone, see "Onboard One Switch Using the Mist AI Mobile App" on page 3.

- one or more switches using your computer, see "Onboard One or More Switches Using a Web Browser" on page 4.

Trying to do something else? Check out the content at the links provided here:

- Onboard an existing, in-service (brownfield) switch into Mist using the Adopt Switch procedure. See Onboard a Brownfield Switch.

  > ℹ️ **NOTE**: You need to use the Adopt Switch procedure to onboard a switch which is not cloud-ready and does not have a QR code on it.

- Not using Mist? Find options and instructions in the model-specific Hardware Guide on the Juniper Mist Supported Hardware page.

- Review the shipment packing list. See the model-specific Hardware Guide on the Juniper Mist Supported Hardware page.

- Install the hardware. See the model-specific Hardware Guide on the Juniper Mist Supported Hardware page.

Cloud-Ready Switches

The Juniper Networks® Cloud-Ready Switches come ready to install and manage using the Juniper Mist Cloud portal at https://manage.mist.com. Your switch is cloud-ready if it has a QR claim code on the front or back panel.

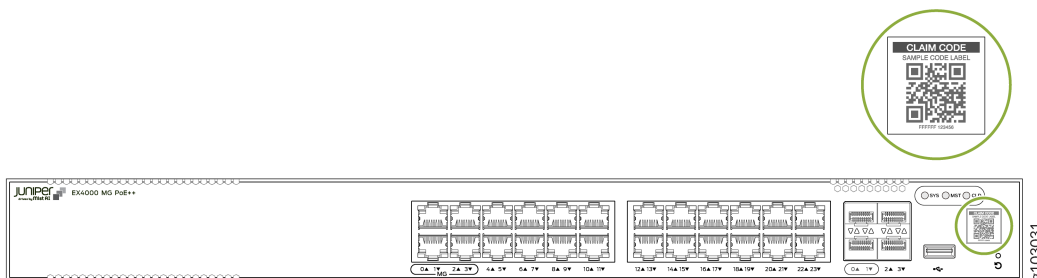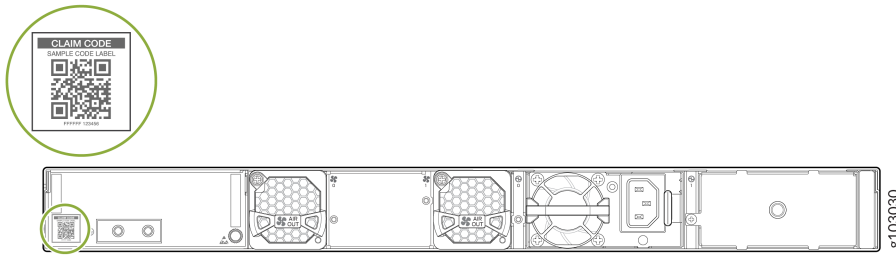**Figure 1: EX4000-24MP as an example with claim code on its front panel**

Figure 2: EX4400-24X as an example with claim code on its back panel

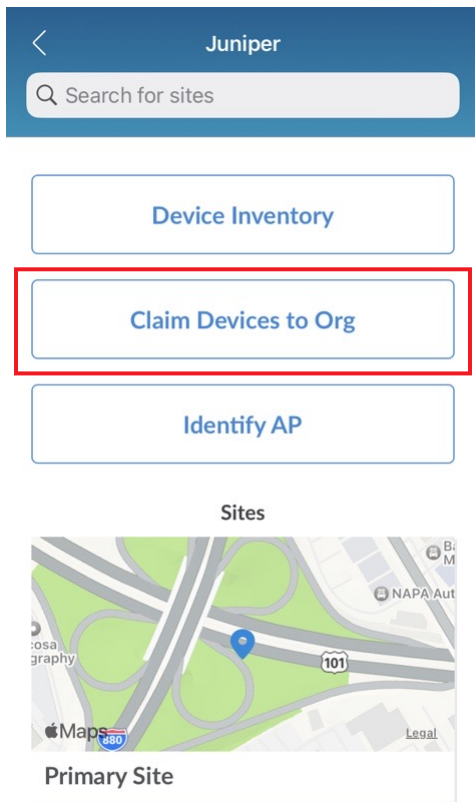> **NOTE**: The onboarding procedures described in this guide apply only to cloud-ready EX and QFX switches. See Juniper Mist Supported Hardware for other supported models and their documentation.

Onboard One Switch Using the Mist AI Mobile App

From your mobile phone:

1. Download and install the Mist AI app from the Google Play Store or Apple App Store.

2. Open the Mist AI app and log in using your account credentials.

3. Select your organization.

4. Tap **Claim Devices to Org** and focus the camera on the QR code. The app automatically claims the switch and adds it into your organization's inventory.

The Mist Mobile App does not allow you to set a root password when claiming a switch.

5. On the Organization screen, tap **Device Inventory** > **Switches** > **Unassigned**.

Confirm the MAC address matches your switch hardware.

6. Select the new switch. Then tap **Primary Site** and tap **Assign**.

Onboard One or More Switches Using a Web Browser

Onboarding multiple switches—When you purchase multiple switches, we provide you with an activation code along with your PO information. Make a note of this code.

Onboarding a single switch—Locate the QR code on your switch and make a note of the alphanumeric claim code directly above it.

1. Log in to your account at https://manage.mist.com/.

2. Go to **Organization** > **Admin** > **Inventory** > **Switches** and click **Claim Switches**.

3. Enter the Activation code or Claim code.

Claim Switches and Activate Subscriptions ✕

Enter Switch claim codes or Activation codes

`<code>` [Add]

Auto Upgrade Switches

Upon claim, Switches will upgrade to the following versions:

Model	Version
QFX5700	23.4R2-S4.11

Configure auto upgrades for Switches in Organization Settings.

[Organization Settings]

Site Assignment

☑ Assign claimed Switches to site

Site3 ▼

Name Generation

☐ Generate names for Switches, with format:

Letters, numbers, _ . or -
Format includes arbitrary text and any/none of these options
[site]   site name
[site.4]   last (1-9) characters of site name
[mac]   MAC address
[mac.3]   last (2-3) bytes of MAC address
[ctr]   incrementing counter
[ctr.3]   counter with (2-6) fixed digits

Manage Configuration

☑ Manage configuration with Mist

Root Password

●●●●●●●●   Reveal

Existing switch configuration will be overwritten with Mist configuration. Do not attempt to configure the switch via CLI once it is managed by Mist. Root password will be configured by the site(under site settings) to which the switch is assigned.

Check the prerequisites before claiming.
View Documentation ↗

[Claim] [Cancel]

4. Confirm that **Assign claimed Switches to site** is checked and **Primary Site** appears below the checkbox.

5. Select **Manage configuration with Mist**.

6. Enter a **Root Password**. This password becomes the root password on each claimed switch.

7. Click **Claim**.

    If you claim multiple switches, expect a slight delay for the Switch Claim Results window to pop up.

    Confirm the information is accurate and **Close** the window.

    View your new switch or switches on the Inventory page. Expect to see the status as Disconnected.

Integrate Your Juniper Support Account with Juniper Mist
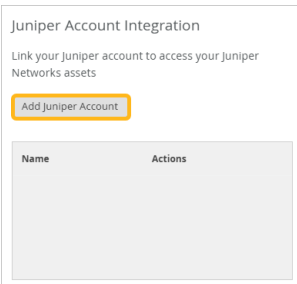
SUMMARY

For full access to Juniper device data and to features such as bug reports and security alerts, integrate your Juniper support account with Juniper Mist™.

When you integrate your Juniper Account with your Juniper Mist™ organization, the Inventory page presents actionable intelligence about your Juniper devices. This information is powered by Juniper Support Insights (JSI). With these insights, you can transform your support experience from reactive to focused and proactive.
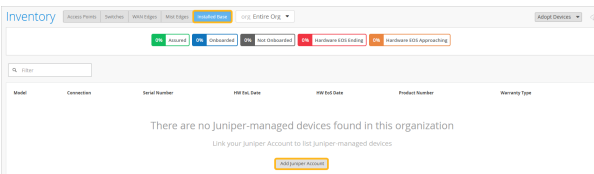
To integrate your Juniper support account with Juniper Mist:

1. Start from the Organization Settings page or the Installed Base page:

- Organization Settings—From the left menu, select **Organization** > **Admin** > **Settings**. Under **Juniper Account Integration**, click **Add Juniper Account**.

- Installed Base—From the left menu, select **Organization** > **Admin** > **Inventory**. At the top of the Inventory page, click the **Installed Base** button. Click **Add Juniper Account**.

2. In the pop-up window, enter the login credentials for your Juniper account, and then click **Add**.

On successful integration, the primary account name associated with your credentials is listed in the Linked Accounts section. The Linked Account section also lists other primary accounts that are currently linked to the organization.

If you no longer wish to view Juniper-maintained asset information for devices associated with an account in your organization, you can unlink the account.

To view the insights, go to **Organization** > **Admin** > **Inventory**, and then click **Installed Base** at the top of the page.

Step 2: Up and Running

IN THIS SECTION

Install the Switch in a Rack

The rack installation and power-on procedures vary slightly for each switch. For instructions specific to your switch, see the applicable hardware guide on the Juniper Mist Supported Hardware page.

Connect to the Network and Power On the Switch

> **NOTE**: Some tasks in the following procedure require you to configure or connect to services in your local network. We do not provide instructions for configuring or locating these services.

1. Ensure that a DHCP server is reachable.

   In addition to providing an IP address to the switch, your DHCP server must provide the following information:

   - A default gateway address

   - An NTP server address

   - A DNS server address

   - The switch's local domain name

2. Open ports TCP 2200 and TCP 443 on your firewall to allow inbound and outbound communication between the switch and the Mist cloud portal.

3. Connect an Ethernet cable to any traffic (revenue) port on the switch and to your local network.

4. Connect power to the switch.

5. Wait for a few minutes for the switch to boot completely.

Congratulations! The switch should now appear as green/connected in the Mist portal. You've successfully onboarded your cloud-ready switch.

Step 3: Keep Going

IN THIS SECTION

What's Next?

Use the Mist portal to configure and monitor your switch for operation in your network. The tables below provide links to more information.

If you want to	Then
Learn how to use configuration templates	See Configure Switches
View and manage your Mist subscriptions	See Subscriptions
Learn about Wired Service Level Expectations (SLE)	See Wired Service Level Expectations (SLE)
Learn about EVPN multihoming deployment in the Mist Cloud	See Configure Campus Fabric EVPN Multihoming
Get an overview about campus fabric deployment	See AI-Driven Campus Fabric Quick Guide
Learn about Junos OS software updates for your switch	See Upgrade Junos OS Software on Your Switch

General Information

If you want to	Then
See all documentation available for Wired Assurance	Visit Wired Assurance Documentation
Learn about Marvis	Visit Marvis Documentation
See all documentation available for Junos OS	Visit Junos OS Documentation
See product update information	Visit Product Updates
Monitor the health of your switch	See Switch Utilities
Configure a Virtual Chassis	See Configure a Virtual Chassis

Get Training

If you want to	Then
Learn more about Mist through our in-person and on-demand courses	Visit Juniper Mist Learning Path