

Juniper NETWORKS SSR1 Series Cloud Ready SSR Devices User Guide

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Juniper NETWORKS SSR1 Series Cloud Ready SSR Devices



Specifications:

- SSR120: Four 1-GbE ports, two 1-GbE RJ-45/SFP combo ports
- SSR130: Six 1-GbE ports, two 1-GbE RJ-45/SFP combo ports
- SSR1200: Seven 1-GbE ports, four 1-GbE/10-GbE SFP+ ports, management port, 64 GB memory, 256 GB SSD
- SSR1300: Four 1-GbE ports, four 1-GbE/10-GbE SFP+ ports, four 10-GbE SFP+ ports, management port, 128-GB memory, 256-GB SSD
- **SSR1400:** Four 1-GbE ports, four 1-GbE/10-GbE/25-GbE SFP28 ports, four 10-GbE SFP+ ports, management port, 256-GB memory, 512-GB SSD
- SSR1500: Four 1-GbE ports, twelve 1-GbE/10-GbE/25-GbE SFP28 ports, management port, 512-GB memory, 1 TB SSD

Product Usage Instructions

Step 1: Begin

Meet the Cloud-Ready SSR Series Devices

The Cloud-Ready SSR Series Devices include SSR120 for small branch deployments, SSR130 for medium branch deployments, SSR1200 for large branch and small data center or campus deployments, SSR1300 for medium data center or campus deployments, SSR1400 for large data center or campus deployments, and SSR1500 for very large data center or campus deployments.

Claim Your Device

To claim your device, use the Mist Al App QR Scan feature.

Follow these steps:

- 1. Download the Mist Al App from the Mac App Store or Google Play Store.
- 2. Open the Mist AI app and log in using your account credentials.
- 3. Select your organization.
- 4. Tap "Claim Devices to Org."
- 5. Scan the QR code on the device to add it to your organization's inventory.

Step 2: Up and Running

After claiming your device, proceed with provisioning it by following the instructions in the manual.

Step 3: Keep Going

Ensure to refer to the Mist Activation Code or Claim Code section for further details on managing your device using the Juniper Mist Cloud portal.

FAQ:

• Q: How do I add my SSR device to the WAN edge inventory?

A: You can add your SSR device to the WAN edge inventory by using the QR code or Claim Code located on the device chassis. Follow the instructions provided in the manual.

• Q: What are the different models available in the SSR Series?

A: The SSR Series includes SSR120, SSR130, SSR1200, SSR1300, SSR1400, and SSR1500 with varying configurations suitable for different deployment scenarios.

Begin

In this guide, we provide a simple, three-step path, to quickly get the Juniper Networks® SSR100 Series devices (SSR120 and SSR130) and SSR1000 Series devices (SSR1200, SSR1300, SSR1400, and SSR1500) up and running on Juniper Mist™ cloud. You can on-board a single SSR device using your mobile phone, or one or more devices using your computer. Once on board, we'll walk you through the steps to create a basic configuration. You'll need your Juniper Mist WAN Assurance subscription and your login credentials for the Juniper Mist portal.

NOTE:

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

Meet the Cloud-Ready SSR Series Devices

The two fixed configuration 1 U SSR100 Series devices:

SSR120—Small branch deploymen ts	The SSR120 features four 1-GbE p orts and two 1-GbE RJ-45/SFP co mbo ports.
SSR130—Medium branch deploym ents	The SSR130 features six 1-GbE ports and two 1-GbE RJ-45/SFP combo ports.

The four fixed configuration 1 U SSR1000 Series devices:

SSR1200—Large branch and small data center or campus deployments	tana o tana oo tana tana tana tana tana	The SSR1200 has seven 1-GbE ports, four 1-GbE/10-GbE SFP+ ports, a management port (for Mist operations), 64 GB of memory, and a 256-GB enterprise-grade solid-state drive (SSD) for storage.
SSR1300—Medium data center or campus deployments		The SSR1300 has four 1-GbE ports , four 1-GbE/10-GbE SFP+ ports, fo ur 10-GbE SFP+ ports, a managem ent port (for Mist operations), 128-GB of memory, and a 256-GB enter prise-grade solid-state drive (SSD) f or storage.
SSR1400—Large data center or ca mpus deployments	· · · · · · · · · · · · · · · · · · ·	The SSR1400 has four 1-GbE ports, four 1-GbE/10-GbE/25-GbE SFP2 8 ports, four 10-GbE SFP+ ports, a management port (for Mist operations), 256-GB of memory, and a 512-GB enterprise-grade solid-state drive (SSD) for storage.
SSR1500—Very large data center or campus deployments		The SSR1500 has four 1-GbE ports , twelve 1-GbE/10-GbE/25-GbE SF P28 ports, a management port (for Mist operations), 512 GB of memor y, and a 1 TB enterprise-grade solid -state drive (SSD) for storage.

Claim Your Device

SSR Series devices are cloud-ready devices; you can manage them using the <u>Juniper Mist™ Cloud</u> portal. To manage the SSR device using the Juniper Mist cloud portal, you need to add your SSR devices to your organization's WAN edge inventory.

To add the SSR device to the WAN edge inventory, do one of the following:

- Scan the QR code with the Mist Al mobile application. See "Use Mist Al App QR Scan".
- Manually enter the claim code in Mist. See "Enter the Mist Activation Code or Claim Code".

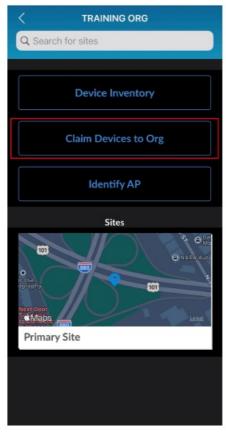
The QR code and the Claim Code are located on the rear panel of the chassis in SSR100 Series devices and on the front panel of the chassis in SSR1000 Series devices. The claim code is the number above the QR code. For example, The claim code on the SSR1200 chassis shown in the picture below is K6TAACRTCJWQ8GQ.



Use Mist Al App QR Scan

You can download the Mist Al App from the <u>Mac App Store</u> or <u>Google Play Store</u>.

- 1. Open the Mist Al app and log in using your account credentials. If you do not have an account, see Create a Mist Account and Organization.
- 2. Select your organization.
- 3. Tap Claim Devices to Org.



- 4. Scan the QR code. The app automatically claims the device and adds it to your organization's inventory.
- 5. On the Organization screen, tap Device Inventory \rightarrow Routers \rightarrow Unassigned. Review the MAC address.

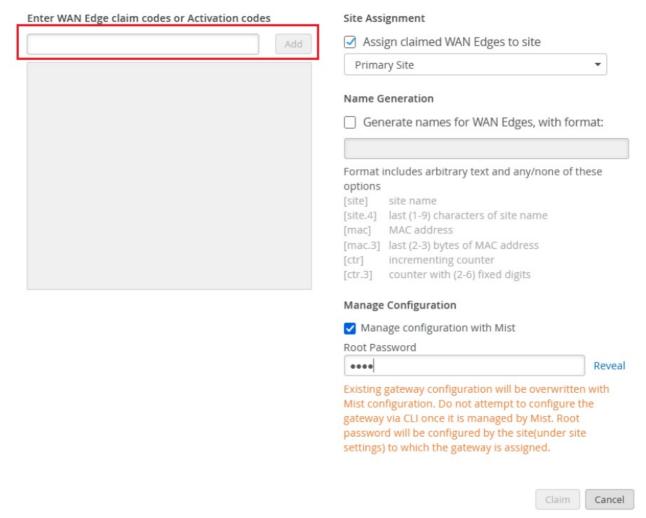
Onboarding Complete!

Fantastic, the SSR device is in your inventory! To provision the SSR device, see "Step 2: Up and Running".

Enter the Mist Activation Code or Claim Code

Claiming multiple devices—When you purchase multiple devices, we provide you with an activation code along with your PO information. Make a note of this code. Claiming a single device—Locate the QR code on your device and make a note of the alphanumeric claim code directly above it.

- Open the <u>Juniper Mist™ Cloud</u> portal and log in to your account. If you do not have an account, see <u>Create a</u>
 <u>Mist Account and Organization</u>.
- 2. Select Organization > Inventory from the menu on the left, then select the WAN Edges tab at the top.
- 3. Click Claim WAN Edges in the upper right portion of the inventory screen.
- 4. Enter the SSR device Activation code or claim code and click Add.



- 5. Clear the Assign claimed WAN Edges to the site check box.
- 6. Click the Claim button to claim the SSR device in your inventory.

Video: Add the Claim Information in Mist.

Onboarding Complete!

Fantastic, the SSR device is in your inventory! To provision the SSR device, see "Step 2: Up and Running".

Up and Running

SUMMARY

The SSR device is onboarded to the <u>Juniper Mist™ Cloud</u>. To provision the SSR device with ZTP, log in to your Mist portal and begin the WAN configuration. Configuring your SSR device is made simple through the use of the SSR WAN Edge Templates.

Create a WAN Edge Template

The WAN Edge Templates provide you with the basic network configuration in a single step and allow for reusable and consistent configuration for every SSR device you deploy. The template provides device-specific, preconfigured WAN interfaces, LAN interfaces, a traffic steering policy, and an application policy.

Create a Template

To create a Template:

- 1. Select Organization > WAN Edge Templates from the menu on the left.
- 2. Click Create Template in the upper-right corner of the WAN Edge Templates page.
- 3. Enter a name for the template.
- 4. Select Create from Device Model.
- 5. Select your SSR device from the Model drop-down.
- 6. Click Create. Your SSR device template is displayed.
- Scroll down through the template to see the preconfigured WAN interfaces, LAN interfaces, TRAFFIC STEERING, and APPLICATION POLICIES.

Video: Create a Template.

Assign the Template to a Site

Now that you have set up the template, you need to assign it to the site where your SSR device will be deployed.

- 1. Click the Assign to Site button, and select the site to which you want to apply the template configuration.
- 2. Click Apply.

Great work! All that remains is to associate the SSR device with a site.

Assign the SSR Device to a Site

Now, assign the SSR device to a site so that you can begin to manage the configuration and gather data in the Mist cloud.

- 1. Select Organization > Inventory. The status of the SSR device is shown as Unassigned.
- 2. Select the SSR device and from the More drop-down list, select Assign to Site.
- 3. Select the site from the Site list.

NOTE: Under Manage Configuration, do not check the Manage Configuration with Mist checkbox for the SSR device if it is using Session Smart Router software version 5.4.4. This allows the SSR device to reach out to the conductor IP address specified when the site was created to receive configuration information.

If you are onboarding a Mist-managed device using Session Smart Router software version 6.0, select Manage Configuration with Mist. If you do not select Manage Configuration with Mist, the SSR device will not be managed by Mist.

4. Click Assign to Site.

Video: Assign the SSR1200 to a Site.

The site assignment takes a few minutes. After the site is fully onboarded, use the Mist WAN Edge – Device View to access the SSR device, and the Insights view to view events and activity.

Install the SSR Device in a Rack

Install the SSR device in a rack and connect it to power. For instructions see the hardware guide on the **Juniper Mist Supported Hardware** page.

Your SSR device uses the port labeled MGMT (mgmt-0/0/0) as the default port to contact Mist for zero-touch provisioning (ZTP). You will also be setting up port 0/3 (ge-0/0/3 or xe-0/0/3 depending on the SSR device) with a LAN network.

1. Connect the MGMT port to an Ethernet link that can assign a DHCP address to the SSR device and provide connectivity to the Internet and Mist.

NOTE: For management, you can connect the SSR device to Mist using the MGMT port. You can also connect to Mist from one of the WAN ports only when the MGMT port is disconnected or does not have a valid DHCP leased address and default route.

Do not change the Mist management port once your device is powered on and connected to the Mist Cloud instance.

- 2. Use the LAN port on your SSR device listed in the following table to connect your SSR device to the LAN devices such as:
 - Mist-managed Juniper EX switches
 - Mist APs
 - User devices

SSR Device Model,	LAN Port	Illustration
SSR120	3 (ge-0-3)	ge-0 WAN ge-3 LAN LAN Devices
SSR130	3 (ge-0-3)	ge-0 WAN ge-3 LAN LAN Devices



3. Power on the SSR device.

Great job! Your SSR device is now connected to the Mist cloud! In just a few minutes, Mist will send the template-driven configuration down to your device. Once the configuration has been applied, it will begin forwarding sessions from LAN to WAN as described by your policy.

• Go to the WAN Edges menu on the Mist sidebar, select your device, and watch events as the device completes

ZTP.

 As your client devices connected to the LAN are assigned addresses from the WAN Edge DHCP server and begin sending sessions, telemetry will populate the insights page, and Marvis will start analyzing it on your behalf.

Keep Going

SUMMARY

Congratulations!

Now that you've done the initial configuration, your SSR device is ready to use. Here are some things you can do next:

What's Next

If you want to	Then
Get an overview of Configuration and Configuration M anagement on the SSR device	See the WAN Assurance Configuration Overview s ection of the Juniper Mist WAN Assurance Configurati on Guide in the Juniper Networks TechLibrary
Configure essential user access and authentication fea tures	See Access Management
Upgrade the software	See <u>Upgrading the SSR Networking Platform</u>

General Information

If you want to	Then
See all documentation available for the SSR devices	See the Juniper Mist Supported Hardware in the Juniper Networks TechLibrary
See all documentation available for SSR software	Visit <u>Session Smart Router</u>

Stay up-to-date with new and changed features and k nown and resolved issues	See the SSR Release Notes
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Learn with Videos

Here are some great video and training resources that will help you expand your knowledge of SSR Software.

If you want to	Then
Get short tips and instructions that provide quick answ ers, clarity, and insight into specific features and functions of Juniper technologies	See <u>Learning with Videos</u> on Juniper Networks main YouTube page
View a list of the many free technical trainings we offer at Juniper	Visit the <u>Getting Started</u> page on the Juniper Learning Portal

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Documents / Resources



<u>Juniper NETWORKS SSR1 Series Cloud Ready SSR Devices</u> [pdf] User Guide SSR120, SSR1300, SSR1300, SSR1400, SSR1500, SSR1 Series Cloud Ready SSR Devices, SSR1 Series, Cloud Ready SSR Devices, Devices

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- Upgrade Overview | SSN Docs
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- User Manual

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