



JuniPer SSR1400 Session Smart Router Images User Guide

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Step 1: Begin

In this guide, we provide a simple, three-step path, to quickly get the Juniper Networks® SSR1400 appliance up and running on Juniper Mist™ cloud. You can on-board a single 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. For more information, see Quick Start: Mist.

Meet the Cloud-Ready SSR1400

The SSR1400 is a 1 U fixed configuration appliance that's ideal for large data center or campus deployments. Powered by the Juniper® Session Smart Router (SSR) software, the SSR1400 provides secure and resilient WAN connectivity.

The SSR1400 has four 1 GbE ports, four 1/10/25 GbE SFP28 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.



Claim Your Appliance

The SSR1400 comes ready to manage using the Juniper Mist™ Cloud portal.

To add the SSR1400 to your organization's WAN Edge inventory, you must enter the SSR1400 claim information into Mist. The claim code label (QR code sticker) on the front panel has the claim information.

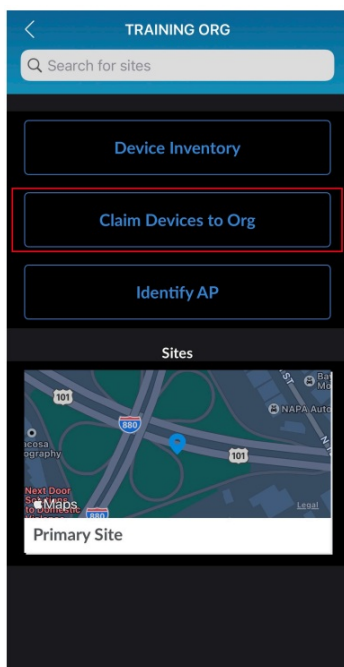
To enter the claim information, do one of the following:

- Scan the QR code with the Mist AI mobile application. See "Mist AI App QR Scan" on page 2.
- Manually enter the claim code in Mist. The claim code is the number above the QR code. For example: In this picture, the claim code is KF9HC588GPSFRCZ. See "Enter the Mist Claim Code" on page 3.



Mist AI App QR Scan

1. Open the Mist AI 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 into your organization's inventory.
5. On the Organization screen, tap Device Inventory → Routers → Unassigned.

Review the MAC address.

Onboarding Complete!

Fantastic, the SSR1400 is in your inventory! To provision the SSR1400, see "Step 2: Up and Running" on page 4.

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Enter the Mist 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.

1. Open the Juniper Mist™ Cloud portal and log in to your account. If you do not have an account, see Create a Mist Account and Organization.
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 SSR1400 Activation code or claim code and click Add.

Enter WAN Edge claim codes or Activation codes

Add

Site Assignment

☒ Assign claimed WAN Edges to site

Primary Site

Name Generation

☐ Generate names for WAN Edges, with format:

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

Claim
Cancel

5. Clear the Assign claimed WAN Edges to site check box to place the SSR1400 in the inventory. The SSR1400 is assigned to a site later, see “Assign the SSR1400 to a Site” on page 6.
6. Click the Claim button to claim the SSR1400 into your inventory.



Video: Add the Claim Information in Mist

Onboarding Complete!

Fantastic, the SSR1400 is in your inventory! To provision the SSR1400, see “Step 2: Up and Running” on page 4.

Step 2: Up and Running

SUMMARY

The SSR1400 is onboarded to the Juniper Mist™ Cloud. To provision the SSR1400 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 re-usable 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.
7. Scroll down through the template to see the preconfigured WAN interfaces, LAN interfaces, TRAFFIC STEERING, and APPLICATION POLICIES.



Video: Create a Template

Great job! You now have a working WAN Edge template you can apply to many sites and devices across your organization.

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 SSR1400 with a site.

Assign the SSR1400 to a Site

After the SSR1400 is onboarded to the Mist cloud, you'll need to assign it to a site so you can begin to manage the configuration and gather data in Mist cloud.

1. Select Organization > Inventory. The status of the SSR1400 is shown as Unassigned.
2. Select the SSR1400 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 SSR1400 if it is using Session Smart Router software version 5.4.4. This allows the SSR1400 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 appliance using Session Smart Router software version 6.0, select Manage Configuration with Mist. If you do not select Manage Configuration with Mist, the SSR1400 will not be managed by Mist.

4. Click **Assign to Site**.



Video: Assign the SSR1400 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 SSR1400, and the Insights view to view events and activity.

Install the SSR1400 in a Rack

Install the SSR1400 in a rack and connect it to power. For instructions see the hardware guide on the Juniper Mist Supported Hardware page.

Connect Your SSR1400 to the Mist Cloud

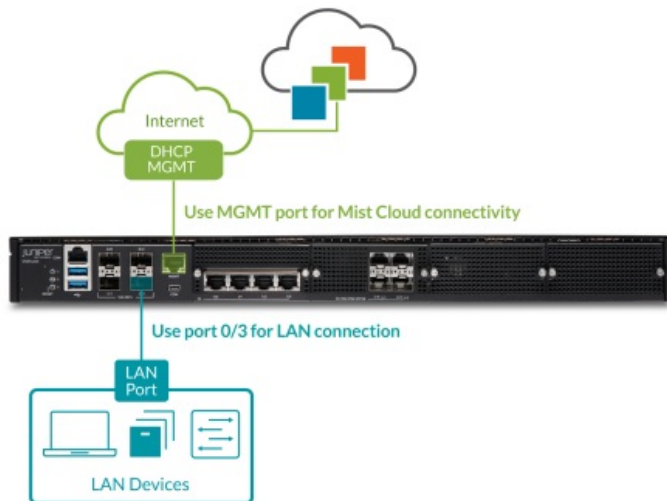
Your SSR1400, uses port labelled MGMT (mgmt-0/0/0) as the default port to contact Mist for zero-touch provisioning (ZTP). It uses port 0/3 (xe-0/0/3) to connect to the LAN.

1. Connect the MGMT port to an Ethernet link that can assign a DHCP address to the SSR1400 and provide connectivity to the Internet and Mist.

NOTE: For management, you can connect the SSR1400 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 appliance is powered on and connected to the Mist Cloud instance.

2. Connect port **0/3** to your LAN devices, such as

- Mist-managed Juniper EX switches
- Mist APs
- User devices



3. **Power on the SSR1400.**

Great job! Your SSR1400 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

Step 3: Keep Going

SUMMARY

Congratulations! Now that you've done the initial configuration, your SSR1400 is ready to use. Here are some things you can do next:

What's Next?

If you want to	Then
Understand the various configurations available on the SSR1400	See Configuration Management on the SSR
Configure essential user access and authentication features	See Access Management
Upgrade the software	See Upgrading the SSR Networking Platform

General Information

If you want to	Then
See all documentation available for the SSR1400	See the SSR1400 Documentation in the Juniper Networks TechLibrary
See all documentation available for SSR software	Visit Session Smart Router (formerly 128T)
Stay up-to-date with new and changed features and known and resolved issues	See the SSR Release Notes


Learn with Videos

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

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Documents / Resources

	<p>JuniPer SSR1400 Session Smart Router Images [pdf] User Guide</p> <p>SSR1400 Session Smart Router Images, SSR1400, Session Smart Router Images, Smart Router Images, Router Images, Images</p>
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References

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- [Mist Systems](#)
- [Session Smart Router \(formerly 128T\) Documentation | Juniper Networks](#)
- [SSR1400 Documentation | Juniper Networks](#)
- [Mist | Quick Start | Step 1: Begin | Juniper Networks](#)
- [Juniper Mist Supported Hardware | Mist | Juniper Networks](#)
- [Configuration Management on the SSR | SSN Docs](#)
- [Upgrading the SSR Networking Platform | SSN Docs](#)
- [SSR 5.4 Release Notes | SSN Docs](#)
- [User Manual](#)