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Juniper NETWORKS SSR120 Smart Router User Guide

Juniper NETWORKS SSR120 Smart Router User Guide



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Begin

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This guide walks you through the simple steps to get a new cloud-ready Juniper Networks® SSR120 router up and running in the Juniper Mist™ cloud portal. You can onboard a single device using your mobile phone, or one or more devices using your computer. Once onboarded, we'll walk you through the steps to create a basic conC]†r-■onĺ

You'll need your Juniper Mist WAN Assurance s†bscrbr on and your login cr;7;n -Vs for the Juniper Mist portal.

Meet the SSR120

The Juniper Networks SSR120 network appliance is part of the Juniper® Session Smart™ Ro† n] roroVbol TheSSR120 features four 1 GbE ports and two 1 GbE RJ-45/SFP combo ports.

The SSR120 runs the FIPS 140-2 Level 1 compliant Juniper® Session Smart™ Ro† n] (SSR) so[w-r;k which provides secure and resilient WAN conn;c vb|yĺ

The SSR120 is available in models with or without LTE support.



Onboarding the SSR120

The SSR120 comes ready to install and manage using the Juniper Mist™ Cloud portal. You can onboard one or more routers using your computer, or a single router using your mobile phone.

To onboard your SSR120 using your mobile phone, see "Onboard the SSR120 using the Mist Al Mobile App" on page 3.

To manually onboard your SSR120, see "Onboard the SSR120 using a Web Browser" on page 3.

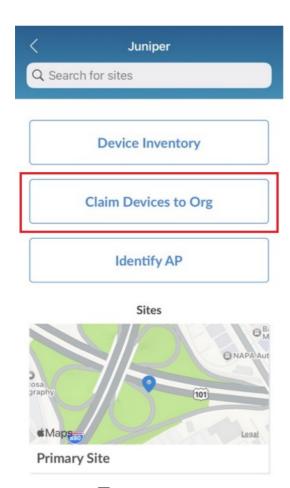
To perform either onboarding process, you will need to locate the SSR120 claim code label on the rear panel of your device.



Onboard the SSR120 Using the Mist Al Mobile App

From your mobile phone:

- 1. Download and install the Mist Al app from the Google Play Store or Apple App Store.
- 2. Open the Mist AI app and log in using your account cr;7;n -Vsĺ If you do not have an account, see Create a Mist Account and r]-nbz- on for details about cr;- n] one.
- 3. Select your or]-nbz-oní
- 4. Tap Claim Devices to Org and focus the camera on the QR code on the claim code label. The app -†|om
 VVy claims the device and adds it into your or]-nbz
 onss inventory.



5. On the r]-nbz- \blacksquare on screen, tap Device Inventory \rightarrow Routers \rightarrow Unassigned. Review the MAC address

Onboarding Complete!

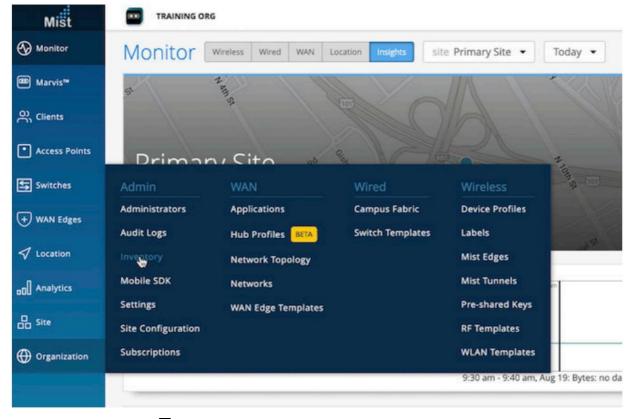
F-n|-s ck the SSR120 is in your inventory! To provision the SSR120, see "Step 2: Up and Running" on page 4 and con n†; with Add the Network.

Onboard the SSR120 Using a Web Browser

Onboarding m†V rV; switches— When you purchase m†V rV; switches, we provide you with an -c v- on code along with your PO bn=orm- on 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 __rsĹņņm-n-];ĺmbs|ĺcomņ. If you do not have an account, see Create a Mist Account and r]-nbz-■ on for details about cr;-■n] one.
- 2. Log in to your Mist or]-nbz-■onss dashboard.



- 3. Navigate to your or]-nbz-onss inventory, and select the WAN tab at the top.
- 4. Select the Claim WAN Edges bt, on in the upper right of the inventory screen.
- 5. Add the claim code into the list of devices to claim.
- 6. Clear the Assign claimed WAN edges to site check box. This places the device into inventory, to be assigned to a site later.
- 7. Click the Claim b†, on to claim the device into your inventory.

If you claim m†V rV; routers, expect a slight delay for the Router Claim Results window to pop up.

Review the bn=orm-on and Close the window.

View your new router or routers on the Inventory page. Expect to see the status as Disconnected.

Onboarding Complete!

F-n|-s ck the SSR120 is in your inventory! To provision the SSR120, see "Step 2: Up and Running" on page 4 and

con n†; with Add the Network.

Up and Running

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The SSR120 has been onboarded to the Juniper Mist™ cloud. To provision the SSR120 with ZTP, log in to your Mist portal and begin the WAN conC]†r-■onÍ

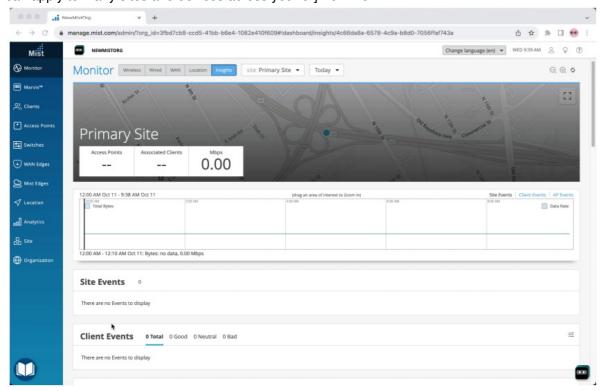
onC]†rbn] your SSR device is made simple through the use of the SSR WAN Edge Templates.

Create a Template

The WAN Edge Templates provide you with the basic network conC]†r-—on in a single step, and allow for re usable and consistent conC]†r-—on for every SSR device you deploy. The template provides device sr;cbCck/rr;conC]†r;7 WAN interfaces, LAN interfaces, a |r-Lc steering policy, and an -rrVbc-—on policy. You simply name the template and select the device type

- 1. From the the or]-nbz- on sidebar menu, select **WAN Edge Templates**.
- 2. Select Create Template in the upper right.
- 3. Give the template a name.
- 4. Place a checkmark in the Create from Device Model box.
- 5. Select your SSR model from the dropdown.
- 6. Click Create.

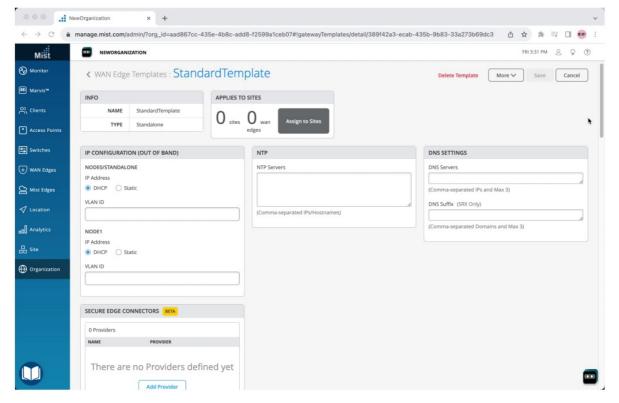
The device template is displayed. Scroll down through the template to see the rr;conC]†r;7 WAN interfaces, LAN interfaces, \$r-Lc Steering, and rrVbc-—on Policies. Great job! You now have a working WAN Edge template you can apply to many sites and devices across your or]-nbz-—onĺ.



Assign the Template to a Site

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

- 1. Scroll to the top and click **Assign to Site.**
- 2. Select the site from the list where you want the template applied.
- 3. Click Apply.



Great work! All that remains is to associate the SSR120 with a site.

Assign the SSR120 to a Site

Once you associate the SSR120 with a site and a template, the working conC]†r-—on will be complete.

- 1. Select r]-nbz-■on on the V;[sidebar, and navigate to your or]-nbz-■onŝs WAN Edges Inventory.
- 2. Select your SSR120 and assign it to your site.
- 3. If you are conC]†rbn] a Mist-managed router (SSR So[w-r; version 6.x and greater), check the Manage conC]†r-■on with Mist check box. For version 5.4.x and greater conductor-managed routers, make sure there is no check mark in the Manage onC]†r-■on from Mist under Manage onC]†r-■on.
- 4. Select Assign to Site.

Congratulation you now have a Mist-claimed SSR120, and a basic conC]†r-■on ready to send to your device!

Install the SSR120 Hardware

Your SSR120 bns|-VV-on has sr;cbCc features that must be installed depending on your use and environment. Refer to the SSR120 Hardware ns|-VV-on Guide to complete the following procedures:

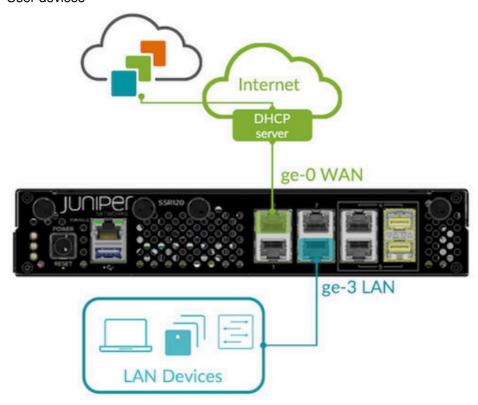
- Rack, Wall, or Surface o†n n]
- LTE Antenna Install
- SIM Card Install
- · Connecting Power

Please return here -[:r comrV: n] those procedures to complete the network conn:c onsí

Connect your SSR120 to the Mist Cloud

Your SSR120 uses port 0 (ge-0-0) as a default WAN port to contact Mist for zero-touch provisioning (ZTP). You'll need to set up port 3 (ge-0-3) with a LAN network.

- 1. Connect port 0 to an Ethernet WAN link that can provide:
 - DHCP address assignment
 - Connectivity to the Internet and Mist (see Firewall Requirements)
- 2. Connect SSR port 3 to your LAN devices, including:
 - Mist-managed Juniper EX switches
 - Mist APs
 - · User devices



Great job, your SSR120 is now connected to the Mist cloud! In just a few minutes, Mist will send the template-driven conC]†r-on down to your device. Once the conC]†r-on has been applied, it will begin forwarding sessions from LAN to WAN as described by your policy.

Head over 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.

For conductor-managed devices, -77b on-V views for Cloud Telemetry are conC]†r-bV; in the SSR GUI and PCLI.

Keep Going

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• Learn with Videos | 10

on]r-|+V-| ons \hat{J} Now that you've done the bnb -V conC]+r- onk your SSR120 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 SSR120	See the SSR Configuration Management section of the SSR Documentation in the Juniper Networks TechLi brary

General Information

If you want to	Then
See all documentation available for the SSR120	See the SS120 Documentation in the Juniper Network s TechLibrary
Get more details about installing and maintaining the S SR120 hardware	See the SSR120 Hardware Guide
See all documentation available for SSR software	Visit Session Smart Router Documentation in the Juni per Networks TechLibrary

If you want to	Then
Stay up-to-date about new and changed features and known and resolved issues	See the SSR Release Notes

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
Learn about Virtual Router Redundancy Protocol for the SSR	See SSR Virtual Router Redundancy Protocol on the SSR YouTube page
Learn about BFD for Traditional Routing	See BFD for Traditional Routing on the SSR YouTube page
Learn about Configuration Concurrency with the SSR	See Configuration Concurrency on the SSR YouTube page
Learn about Service Route Redundancy and Vectors	See Service Route Redundancy and Vectors on the S SR YouTube page
Get short, concise tips and instructions that provide quick answers, clarity, and insight into specific features and functions of Juniper technologies	See Learning with Juniper on Juniper Networks main YouTube page
View a list of free technical training offered by Juniper	Visit the Getting Started page on the Juniper Learning Portal

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Documents / Resources



<u>Juniper NETWORKS SSR120 Smart Router</u> [pdf] User Guide SSR120, SSR120 Smart Router, Smart Router, Router

References

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- ... Mist Systems
- ... Mist Systems
- J Session Smart Router (formerly 128T) Documentation | Juniper Networks
- J SSR120 Documentation | Juniper Networks
- J SSR120 Hardware Guide | Juniper Networks
- Unpack and Mount an SSR120 | Juniper Networks
- Mist | Quick Start | Step 1: Begin | Juniper Networks
- U Configuration Management on the SSR | SSN Docs
- USSR 5.4 Release Notes | SSN Docs
- User Manual

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