How to Set Up Your SRX300 Services Gateway

The SRX300 Services Gateway consolidates security, routing, switching, and WAN interfaces for small retail offices. With advanced threat mitigation capabilities, the services gateway provides cost-effective and secure connectivity.

With a desktop form-factor chassis, the SRX300 Services Gateway has six 1 G Ethernet ports, two 1 G SFP ports, 4 GB of DRAM memory, and 8 GB of flash memory.

Package Contents

- End-User License Agreement
- Safety Guide
- Quick Start Guide
- Warranty and Registration Information
- Power cable
- RJ45 cable
- DB9 adapter
- USB cable
- Power supply adapter
- Power supply adapter

Front Panel

- Reset Config button
- Serial Console port
- 1G Ethernet ports
- 1G SFP ports
- Power button
- LEDs
- USB port
- Mini-USB Console port
- ESD point

Back Panel

- Grounding point
- Lock
- Cable tie holder
- DC input

Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>7.52 in. x 12.63 in. x 1.37 in.</td>
</tr>
<tr>
<td>Chassis weight</td>
<td>4.38 lb</td>
</tr>
<tr>
<td>Average power consumption</td>
<td>15.4 W</td>
</tr>
<tr>
<td>Average heat dissipation</td>
<td>85 BTU/hr</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>5% to 90%, noncondensing</td>
</tr>
<tr>
<td>Noise level</td>
<td>0 dB (fanless)</td>
</tr>
</tbody>
</table>
Gather Configuration Information
Gather information about your network and the configuration settings that you will use to configure the device.

**Required**
- Device name
- Root authentication

**Optional**
- NTP server name or IP address
- Licenses

**Internet zone**
- Static IP or Dynamic IP (provided by ISP)
- Port number

**DMZ**
- Network IP address
- Port number

**Internal zone**
- Zone name
- Network IP address
- Port number
- DHCP server

**Security policies**
- Remote client IP pool range

**Source NAT**
- Internal zones for which source NAT has been added
- IP address or hostname

### Factory-Default Settings

#### Security Policies

<table>
<thead>
<tr>
<th>Source Zone</th>
<th>Destination Zone</th>
<th>Policy Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>trust</td>
<td>untrust</td>
<td>permit</td>
</tr>
<tr>
<td>trust</td>
<td>trust</td>
<td>permit</td>
</tr>
<tr>
<td>untrust</td>
<td>trust</td>
<td>deny</td>
</tr>
</tbody>
</table>

#### NAT Rules

<table>
<thead>
<tr>
<th>Source Zone</th>
<th>Destination Zone</th>
<th>Policy Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>trust</td>
<td>untrust</td>
<td>Source NAT to untrust zone interface</td>
</tr>
</tbody>
</table>

#### Interfaces

<table>
<thead>
<tr>
<th>Port Label</th>
<th>Interface</th>
<th>Security Zone</th>
<th>DHCP State</th>
<th>IP Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/0</td>
<td>ge-0/0/0</td>
<td>untrust</td>
<td>Client</td>
<td>192.168.1.1/24</td>
</tr>
<tr>
<td>0/1</td>
<td>ge-0/0/1</td>
<td>trust</td>
<td>Server</td>
<td>192.168.2.1/24</td>
</tr>
<tr>
<td>0/2</td>
<td>ge-0/0/2</td>
<td>trust</td>
<td>Server</td>
<td>192.168.3.1/24</td>
</tr>
<tr>
<td>0/3</td>
<td>ge-0/0/3</td>
<td>trust</td>
<td>Server</td>
<td>192.168.4.1/24</td>
</tr>
<tr>
<td>0/4</td>
<td>ge-0/0/4</td>
<td>trust</td>
<td>Server</td>
<td>192.168.5.1/24</td>
</tr>
</tbody>
</table>

### Initial Configuration Process

1. Connect the Grounding Cable (Optional)
2. Power On the Device
3. Connect the Management Device
4. Verify the Settings
5. Log in to J-Web
6. Configure Using Guided/Default Setup
Connect the Grounding Cable (Optional)

1. Connect the grounding cable to a proper earth ground.
2. Place the grounding cable lug over the grounding point on the rear of the chassis.

**NOTE:** A licensed electrician must attach a cable lug to the grounding cable. A cable with an incorrectly attached lug can damage the device.

3. Secure the grounding cable lug to the grounding point with the screw. Apply between 6 in.-lb (0.67 Nm) and 8 in.-lb (0.9 Nm) of torque to the screw.

Power On the Device

**NOTE:** Before connecting the device to the power supply, attach an ESD strap to an ESD point and place the other end of the strap around your bare wrist.

1. Plug the DC connector end of the power cable into the power connector on the rear of the device.
2. Plug the AC adapter end of the power cable into an AC power outlet.
3. Turn on the power to the AC power receptacle.
4. Note the following LED indications. Wait until the STATUS LED is solid green before proceeding to the next step.
How to Set Up Your SRX300 Services Gateway

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<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALARM</td>
<td>• Solid amber (noncritical alarm).</td>
</tr>
<tr>
<td></td>
<td>• Solid red (critical alarm).</td>
</tr>
<tr>
<td></td>
<td>• Off (no alarms).</td>
</tr>
<tr>
<td>STAT</td>
<td>• Solid green (operating normally).</td>
</tr>
<tr>
<td></td>
<td>• Solid red (error detected).</td>
</tr>
<tr>
<td>PWR</td>
<td>• Solid green (receiving power).</td>
</tr>
<tr>
<td></td>
<td>• Solid red (power failure).</td>
</tr>
<tr>
<td></td>
<td>• Off (no power).</td>
</tr>
<tr>
<td>HA</td>
<td>• Solid green (all HA links are available).</td>
</tr>
<tr>
<td></td>
<td>• Solid amber (some HA links are unavailable).</td>
</tr>
<tr>
<td></td>
<td>• Solid red (HA links are not functional).</td>
</tr>
<tr>
<td></td>
<td>• Off (HA is disabled).</td>
</tr>
</tbody>
</table>

Connect the Management Device

1. To configure the device using J-Web (recommended), connect any of the network ports numbered 0/1 through 0/5 to the Ethernet port on the management device, using an RJ-45 cable.

   NOTE: The ge-0/0/0 interface (port 0/0) is a WAN interface. Do not use this port for the initial configuration procedure.

   If you will be using the Default setup mode to configure the device, use only port 0/1. For information on the setup modes, see page 5.

2. Ensure that the management device acquires an IP address. The IP address should be on the corresponding IP subnet for the interface you connected to in step 1. The device functions as a DHCP server and will assign an IP address to the management device.

   For example, if you are connected to port 0/1, then the IP address of the management device should be from the 192.168.1.x network. If an IP address is not assigned to the management device, manually configure an IP address. Do not assign the 192.168.1.1 IP address to the management device, as this IP address is assigned to the device. You can use the `ipconfig` (or `ifconfig` for Macintosh or Linux users) command to verify the IP address.

   Refer to the Interfaces table on page 2 for information on the subnet for each interface.

   NOTE: To configure the device using the CLI, connect the RJ-45 cable from the CONSOLE port to the supplied DB-9 adapter, which then connects to the serial port on the management device (serial port settings: 9600-N-1).

   Alternately, you can use the USB cable to connect to the mini-USB console port on the services gateway. To use the USB console port, you must download a USB driver to the management device from http://www.juniper.net/support/downloads/group/?f=junos.
Log In to J-Web
1. Access the J-Web interface using the URL http://192.168.x.1, where x is the port number to which you are connected on the services gateway. The recommended browser is Mozilla Firefox version 23.x or later.
2. Select one of the following setup modes:
   - Guided Setup (uses a static IP address)—Allows you to set up the device in a custom security configuration. You can select either the Basic or the Expert option.
   - Default Setup (uses a dynamic IP address)—Allows you to quickly set up the device with the default configuration. Any additional configuration can be done after the wizard setup is completed.
   - High Availability—Allows you to set up a chassis cluster with a default basic configuration.

**NOTE:** The initial configuration requires only the device name and root password. You can skip all the other steps and go directly to the Confirm & Apply page to apply the configuration.

Configure the Device Using the Guided Setup Mode
1. Connect port 0/0 to the ISP device to obtain a static IP address. Ensure that the cable connecting the ISP-supplied device to the SRX Series device is firmly seated.
2. Select the expertise level as Basic or Expert.

<table>
<thead>
<tr>
<th>Options</th>
<th>Basic</th>
<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of internal zones allowed</td>
<td>3</td>
<td>≥ 3</td>
</tr>
<tr>
<td>Internet zone configuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>options</td>
<td>• Static IP</td>
<td>• Static IP</td>
</tr>
<tr>
<td></td>
<td>• Dynamic IP</td>
<td>• Static pool</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Dynamic IP</td>
</tr>
<tr>
<td>Internal zone service</td>
<td>Allowed</td>
<td>Allowed</td>
</tr>
<tr>
<td>configuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal destination NAT</td>
<td>Not allowed</td>
<td>Allowed</td>
</tr>
<tr>
<td>configuration</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3. Configure the basic settings:
   a. Device name
   b. Password for the root account
   c. Time
4. Configure the security topology:
   a. Internet zone
   b. Internal zones
   c. DMZ
5. Configure the security policy:
   a. Licenses
   b. DMZ policy
   c. Internal policy
   d. Remote access
6. Configure Network Address Translation:
   a. Source NAT
   b. Destination NAT
7. Review the settings and click **Apply Settings**.
8. Click **Done** to complete the setup.

**NOTE:** Check the connectivity from the management device to the SRX Series device. You might lose connectivity to the SRX Series device if you have changed the management zone IP. Click the URL for reconnection instructions on the Confirm & Apply page to reconnect, if required.
Configure the Device Using the Default Setup Mode

1. Connect port 0/0 to the ISP device to obtain a dynamic IP address. Ensure that the cable connecting the ISP-supplied device to the SRX Series device is firmly seated.

   **NOTE:** Verify that the management device is connected to port 0/1 on the services gateway before proceeding to the next step.

2. Configure the basic settings – device name, root account information, and system time.

3. Configure the security policy – licenses.

4. Review the settings and click **Apply Settings**. Click **Done** to complete the setup.

   **NOTE:** Check the connectivity from the management device to the SRX Series device. You might lose connectivity to the SRX Series device if you have changed the management zone IP. Click the URL for reconnection instructions on the Confirm & Apply page to reconnect, if required.

Verify the Settings

Access [http://www.juniper.net](http://www.juniper.net) to ensure that you are connected to the Internet. This connectivity ensures that you can pass traffic through the services gateway.

If the page does not load, perform the following checks to see if you can identify the problem:

- Verify your configuration settings, and ensure that you have applied the configuration.
- Check if the ISP-supplied device connecting your SRX Series device to the Internet is turned on and working properly. Try turning it off and on again.

After you complete these steps, the SRX Series device can pass traffic from any trust port to the untrust port.

**NOTE:** With this step, you have successfully completed the initial configuration, and your SRX300 Services Gateway is ready for use.
Change the Configuration Settings (Optional)

After you complete the initial setup configuration, you can access the J-Web setup wizard by clicking **Configuration Wizards > Set Up**. You can either edit the existing settings or create a new configuration. If you choose to create a new configuration, then all the current configuration in the services gateway will be deleted.

![Setup Wizard](image)

Welcome back to your SRX300
This wizard will help you quickly reconfigure your security appliance.

- **Edit Existing Configuration**
- **Create New Configuration**

Power Off the Device

You can power off the device in one of the following ways:

- **Graceful shutdown**—Press and immediately release the Power button.
- **Forced shutdown**—Press the Power button, and hold it for 10 seconds.

After powering off a power supply, wait at least 60 seconds before turning it back on.

Reset the Configuration

Use the **RESET CONFIG** button to restore the device to the factory-default configuration or to a rescue configuration. To press the **RESET CONFIG** button, insert a small probe (such as a straightened paper clip) into the pinhole on the front panel.

Pressing and quickly releasing the **RESET CONFIG** button loads and commits the rescue configuration. The rescue configuration is a previously committed, valid configuration set through J-Web or the CLI. The STATUS LED is solid amber during this time.

Pressing and holding the **RESET CONFIG** button for 15 seconds or more, until the STATUS LED is solid amber, deletes all configurations (backup configurations and rescue configuration), and loads and commits the factory configuration.

![Reset Configuration](image)

**NOTE:** After a rescue configuration has been set, an amber ALARM LED indicates a minor issue, and a solid red ALARM LED indicates a major problem.

Reference

- **Junos OS Documentation**

- **Technical Support**
  [http://www.juniper.net/support/requesting-support.html](http://www.juniper.net/support/requesting-support.html)

- **SRX300 Services Gateway Hardware Guide**