Converting SSG 300M-series and SSG 500M-series Security Devices to J-series Services Routers with a USB **Storage Device**

Use the software on the USB storage device supplied in this kit to convert an SSG 300M-series or SSG 500M-series security device to a J-series services router by changing the operating system (OS) from ScreenOS software to JUNOS software.

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Kit Contents

This kit contains the parts described in Table 1:

Table 1: Kit Contents

Quantity	Description
1	USB storage device containing JUNOS software
1	J-series services router front panel overlay
1	Conversion instructions (this document)
1	Read This First document

Introduction

The JUNOS software supplied on the USB storage device in this kit lets you convert the devices shown in Table 2.

Table 2: Device Conversions

From	То
SSG 320M	J2320
SSG 350M	J2350
SSG 520M	J4350
SSG 550M	J6350

NOTE: The SSG 300M-series or SSG 500M-series device must be running ScreenOS version 6.1 or later in order for you to perform the conversion described in this document. If your device is running an earlier ScreenOS version, you must first upgrade it to ScreenOS 6.1 or later.

The instructions in this document describe how to:

- Connect the USB storage device to the SSG 300M-series or SSG 500M-series device
- Temporarily convert the SSG 300M-series or SSG 500M-series device into a J-series services router for evaluation
- Revert the temporarily converted J-series services router back into an SSG 300M-series or SSG 500M-series device
- Permanently convert the SSG 300M-series or SSG 500M-series device into a J-series services router

NOTE: One important aspect of converting an SSG 300M-series or SSG 500M-series device into a J-series services router that this document does not address is migrating the device configuration from ScreenOS format to JUNOS format. For information about migrating and loading the configuration file, refer to the *JUNOS Software Migration Guide* at http://www.juniper.net/techpubs/software/junos-es.

See "Conversion Mappings for SSG 300M-series and SSG 500M-series Security Devices and J-series Services Routers" on page 6 for a list of the results of converting SSG 300M-series and SSG 500M-series security devices to J-series services routers.

If you need assistance while performing the conversion, you must have an active Juniper Networks service contract to open a case with Juniper Networks Customer Service.



WARNING: Failure to register your new hardware configuration affects your access profile for http://www.juniper.net/customers/support/. Your current access profile is based on your initial product registration. Not registering the new hardware configuration affects your access to Customer Support Center (CSC) tools, software downloads, and hardware replacement entitlement. Any hardware Return Material Authorization (RMA) replacement also defaults to the original hardware configuration.

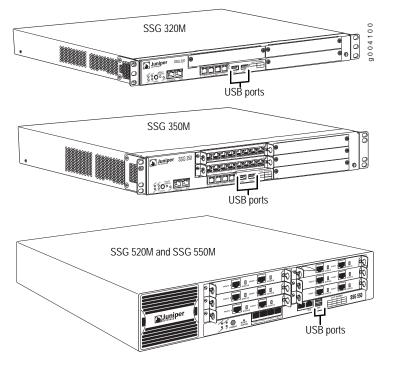
You can register the new hardware configuration only once. Make sure that you have thoroughly tested the final OS conversion and want to make it permanent before you register the new hardware configuration.

Connecting the USB Storage Device

To connect the USB storage device to an SSG 300M-series or SSG 500M-series device:

1. Locate the USB port on the front panel of the device. See Figure 1 for the location of the USB ports for SSG 300M-series and SSG 500M-series security devices.

Figure 1: Location of USB Ports for SSG 300M-series and SSG 500M-series Devices



2. Insert the connector on the USB storage device into either of the USB ports on the security device.

Temporarily Converting the Security Device into a J-series Services Router

After inserting the USB flash drive into the USB port on the front of the security device, you can temporarily convert the device into a J-series services router by booting the device from the JUNOS software on the USB flash drive. Use the temporarily converted router to evaluate JUNOS software and ensure that it will work effectively in your network. We do not recommend that you operate from the USB flash drive for more than a total of 5 days of use. You must leave the USB flash drive attached for the duration of the temporary conversion.

To temporarily convert the security device into a J-series services router:

- 1. Establish a CLI session with the device. You can use the console or Telnet/SSH.
- 2. Execute the following ScreenOS commands:

set boot junos usb save reset

The device resets and then loads the JUNOS software on the USB flash drive attached to the USB port. When the device restarts, it functions as a J-series services router. The router starts in factory default configuration, with the factory default IP address. In order to use the router, you must configure it either by using the console port or via the JWEB interface.

Reversing the Temporary Conversion

You can revert the temporarily converted router back into a security device at any time. To revert the device:

1. In operational mode for the JUNOS CLI, enter the following command:

user@host> request system reboot

The device starts from the internal compact flash, restoring ScreenOS as the operating system for the device and restoring the original ScreenOS configuration file.

- 2. After the device has finished rebooting, remove the USB storage device from the USB port.
- 3. Using the ScreenOS CLI, use the set boot screenos command to return the device to FIPS-compliant mode and disable the booting of any USB storage devices:

device-> set boot screenos device-> save

Permanently Converting the Security Device into a J-series Services Router

After temporarily converting the device into a J-series services router, you can operate the device as a services router for the duration of the evaluation. We do not recommend that you operate from the USB flash drive for more than a total of 5 days of use. When you are satisfied with the operation of the device, you can permanently convert it.



CAUTION: Do not convert the device permanently until you are certain that you want to use the device as a J-series services router. Once you permanently convert the device, you can only convert it back into a security device by removing it from the rack, opening the chassis, and replacing the internal compact flash card with one ordered from Juniper Networks.

To permanently convert the security device into a J-series services router:

1. Enter the request system snapshot operational command:

user@host> request system snapshot as-primary partition media compact-flash

The router creates a copy of the current running JUNOS software, including the configuration file, in the internal compact flash memory. This operation deletes all ScreenOS software and configuration information from the compact flash memory.

2. Reboot the router:

user@host> request system reboot

The router starts JUNOS software from the internal compact flash card.

3. After the router has finished rebooting, remove the USB storage drive from the USB port.

Completion of Steps 4 and 5 is optional and does not affect the registration of your new hardware configuration.

- (Optional) Peel off the SSG overlay from the front of the chassis.
- (Optional) Peel the backing from the self-adhesive J-series overlay provided with your OS conversion kit. Apply the overlay to the front of the chassis. Starting on the left side, line up the cutouts on the overlay with the ports and LEDs on the chassis.
- 6. Contact Juniper Networks Customer Service to register your new hardware configuration. See the Read This First document included in the conversion kit for instructions on registering the converted services router.

Conversion Mappings for SSG 300M-series and SSG 500M-series Security Devices and J-series Services Routers

Table 3 lists the results of converting SSG 300M-series security devices to J-series services routers.

Table 3: SSG 300M-series Security Device and J-series Services Router Conversion Mappings

SSG 300M-series Security Device	J-series Services Router
SSG-320M-SB	J2320-JB-SC
SSG-320M-SH	J2320-JH
SSG-350M-SB	J2350-JB-SC
SSG-350M-SH	J2350-JH

Table 4 lists the results of converting SSG 500M-series security devices to J-series services routers.

Table 4: SSG 500M-series Security Device and J-series Services Router Conversion Mappings

SSG 500M-series Security Device	J-series Services Router
SSG-520M-SH	J-4350-JB
SSG-520M-SH	J-4350-JB-SC
SSG-520M-SH-N	J-4350-JB-N
SSG-520M-SH-DC-N	J-4350-JB-DC-N
SSG-550M-SH	J-6350-JB
SSG-550M-SH-N	J-6350-JB-N
SSG-550M-SH-DC-N	J-6350-JB-DC-N
SSG-520M-SH-N-TAA	J-4350-JB-N-TAA
SSG-520M-SH-DC-N-TAA	J-4350-JB-DC-N-TAA
SSG-550M-SH-N-TAA	J-6350-JB-N-TAA
SSG-550M-SH-DC-N-TAA	J-6350-JB-DC-N-TAA

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