

Statement of Volatility for SRX5400, SRX5600, and SRX5800 Services Gateways

This document helps you to identify the non-volatile (NV) memory devices where the user data resides on the SRX5400, SRX5600, and SRX5800 Services Gateways.

It does not address the destruction procedures of the non-volatile (NV) memory devices. As all the NV memory devices used in the SRX product family are commercial off-the-shelf (COTS) components, directions for destruction of those components are left to the governing Department, Agency, or Office.

The SRX5400, SRX5600, and SRX5800 Services Gateways hardware components that have the non-volatile memory devices are listed below.

Chassis

Chassis part numbers:

- SRX5400-CHAS
- SRX5400X-CHAS
- SRX5600-CHAS
- SRX5600X-CHAS
- SRX5800-CHAS
- SRX5800X-CHAS

Non-Volatile Memory Device	Description
ID EEPROM	Only used to store FRU identification data. No user data is stored.

Switch Control Board (SCB) with Routing Engine (RE)

IN THIS SECTION

- [request system zeroize | 3](#)
- [Removing the Compact Flash Card from SRX5K-RE-1800X4 Routing Engine | 4](#)
- [Removing the SSD | 5](#)

Part numbers of SCB and RE:

- SCB
 - SRX5K-SCB
 - SRX5K-SCBE
 - SRX5K-SCB3
 - SRX5K-SCB4
- RE
 - SRX5K-RE-13-20
 - SRX5K-RE-1800X4
 - SRX5K-RE3-128G

Non-Volatile Memory Device	Description
ID EEPROMs	Only used to store FRU identification data. No user data is stored.
Firmware BIOS Flash for Routing Engine (RE)	Part of the RE complex; stores the BIOS image for the RE. Hardware ID number from Intel is 82802C. No user data is stored.
CMOS bytes	Stores Boot Sequences & System Config. No user data is stored.
Hard Disk (HDD)	<p>Provides secondary storage for log files, memory dumps, and rebooting the system if the internal compact flash card fails.</p> <p>NOTE: Hard Disk is supported only on the SRX5K-RE-13-20 routing engine.</p>

Non-Volatile Memory Device	Description
Compact Flash (CF)	<p>Provides primary storage for software images (Junos OS), configuration files, and microcode.</p> <p>The card is a fixed compact flash and is inaccessible from outside the services gateway.</p> <p>NOTE: Compact Flash card is supported on SRX5K-RE-13-20 and SRX5K-RE-1800X4 routing engines.</p>
Solid State Drive (SSD)	<p>Used to store software (Junos) images, configuration files, microcode, log files, user configuration information, and memory dumps.</p> <p>NOTE: SSD is supported on SRX5K-RE-1800X4 and SRX5K-RE3-128G routing engines.</p>

NOTE: In addition, the RE has one USB port, into which the user can install an external USB disk device to store core dumps, system configuration, software images, etc. The system does not store any user data onto storage devices attached to this port.

request system zeroize

The command **request system zeroize** removes all configuration information on the Routing Engines and reset all key values on the device.

The command removes all data files (including customized configuration and log files, by unlinking the files from their directories), all user-created files from the system (including all plain-text passwords, secrets, and private keys for SSH, local encryption, local authentication, IPsec, RADIUS, TACACS+, and SNMP), and reboots the device and sets it to the factory default configuration.

To completely erase user-created data so that it is unrecoverable, use the **media** option.

NOTE: Starting with Junos OS Release 15.1, the **request system zeroize** command removes all configuration information.

request system zeroize

<media>

<local>

Options

- **media**—(Optional) In addition to removing all configuration and log files, causes memory and the media to be scrubbed, removing all traces of any user-created files. Every storage device attached to the system is scrubbed, including disks, flash drives, removable USBs, and so on. The duration of the scrubbing process is dependent on the size of the media being erased. As a result, the **request system zeroize media** operation can take considerably more time than the **request system zeroize** operation. However, the critical security parameters are all removed at the beginning of the process.
- **local**—(Optional) Remove all the configuration information and restore all the key values on the active Routing Engine.

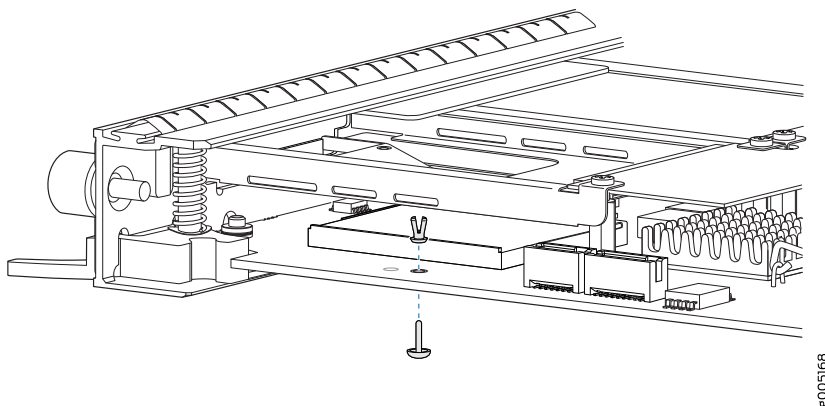
For more information on the command **request system zeroize**, refer to [request system zeroize](#).

Removing the Compact Flash Card from SRX5K-RE-1800X4 Routing Engine

This procedure explains how to remove the Compact Flash card that is located under the solid-state drive (SSD) labeled SATASSD2 on the SRX5K-RE-1800X4 Routing Engine.

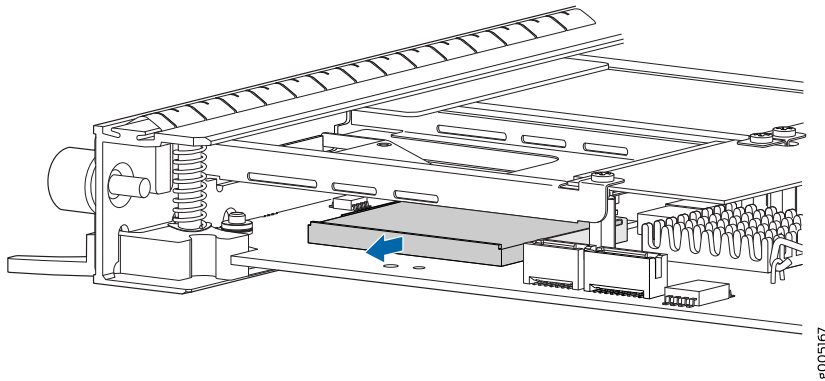
1. Place an electrostatic bag or antistatic mat on a flat, stable surface.
2. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to the ESD point on the chassis.
3. Remove the Routing Engine as described in [Removing the SRX5800 Services Gateway Routing Engine](#).
4. Remove the snap rivet.

Figure 1: Removing the Snap Rivet



5. Gently grasp the Compact Flash card and slide it out of the connector, and place it on the antistatic mat or in the electrostatic bag.

Figure 2: Removing the Compact Flash Card

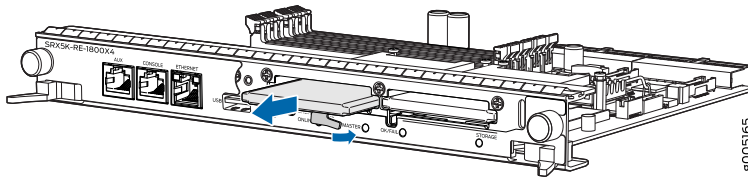


Removing the SSD

This procedure explains how to remove the solid-state drive (SSD) located in the slot labeled SATASSD1 on the SRX5K-RE-1800X4 routing engine and the SSD located in the SRX5K-RE3-128G routing engine. The procedure to remove the SSD is the same in both SRX5K-RE-1800X4 and SRX5K-RE3-128G routing engines. [Figure 3](#) shows how to remove an SSD from the SRX5K-RE-1800X4 routing engine:

1. Place an electrostatic bag or antistatic mat on a flat, stable surface.
2. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to the ESD point on the chassis.
3. Unfasten the thumbscrew that secures the access door in front of the storage drive slots, and open the door.
4. Slide the lock on the ejector to the unlocked position.
5. The SSD pops partially out of the slot. Grasp the SSD and carefully slide it completely out of the slot.

Figure 3: Removing an SSD



6. Place the SSD on the antistatic mat or in the electrostatic bag.

Switch Control Board (SCB)

Part numbers of SCB:

- SRX5K-SCB
- SRX5K-SCBE
- SRX5K-SCB3
- SRX5K-SCB4

Non-Volatile Memory Device	Description
ID EEPROM	Only used to store FRU identification data. No user data is stored.

Input-Output Card (IOC), IOC2, IOC3, IOC4, and Flex IOC (SRX5K-FPC-IOC)

Part numbers of IOC, IOC2, IOC3, IOC4, and Flex IOC:

- IOC
 - SRX5K-40GE-SFP
 - SRX5K-4XGE-XFP
- IOC2
 - SRX5K-MPC
- IOC3

- SRX5K-MPC3-40G10G
- SRX5K-MPC3-100G10G
- IOC4
 - SRX5K-IOC4-10G
 - SRX5K-IOC4-MRAT
- Flex IOC
 - SRX5K-FPC-IOC

Non-Volatile Memory Device	Description
ID EEPROM	Only used to store FRU identification data. No user data is stored.
PMB (Processor Mezzanine Board) mezzanine	Boot flash monitor for PMB processor; stores the boot loader/monitor image for the PMB. No user data is stored.

Module Interface Card (MIC) for IOC2 and Port Modules for Flex IOC

Part numbers of MIC for IOC2 and Port Modules for Flex IOC:

- MIC for IOC2
 - SRX-MIC-20GE-SFP
 - SRX-MIC-10X G-SFP
 - SRX-MIC-1X100G-CFP
 - SRX-MIC-2X40G-QSF
- Port Modules for Flex IOC
 - SRX-IOC-4XGE-XFP
 - SRX-IOC-16GE-TX
 - SRX-IOC-16GE-SFP

Non-Volatile Memory Device	Description
ID EEPROM	Only used to store FRU identification data. No user data is stored.

Non-Volatile Memory Device	Description
Anti-counterfeit security chip's internal EEPROM	Stores signature of the security chip. No user data is stored.

Services Processing Card (SPC)

Part numbers of SPC:

- SRX5K-SPC-2-10-40
- SRX5K-SPC-4-15-320
- SRX5K-SPC3

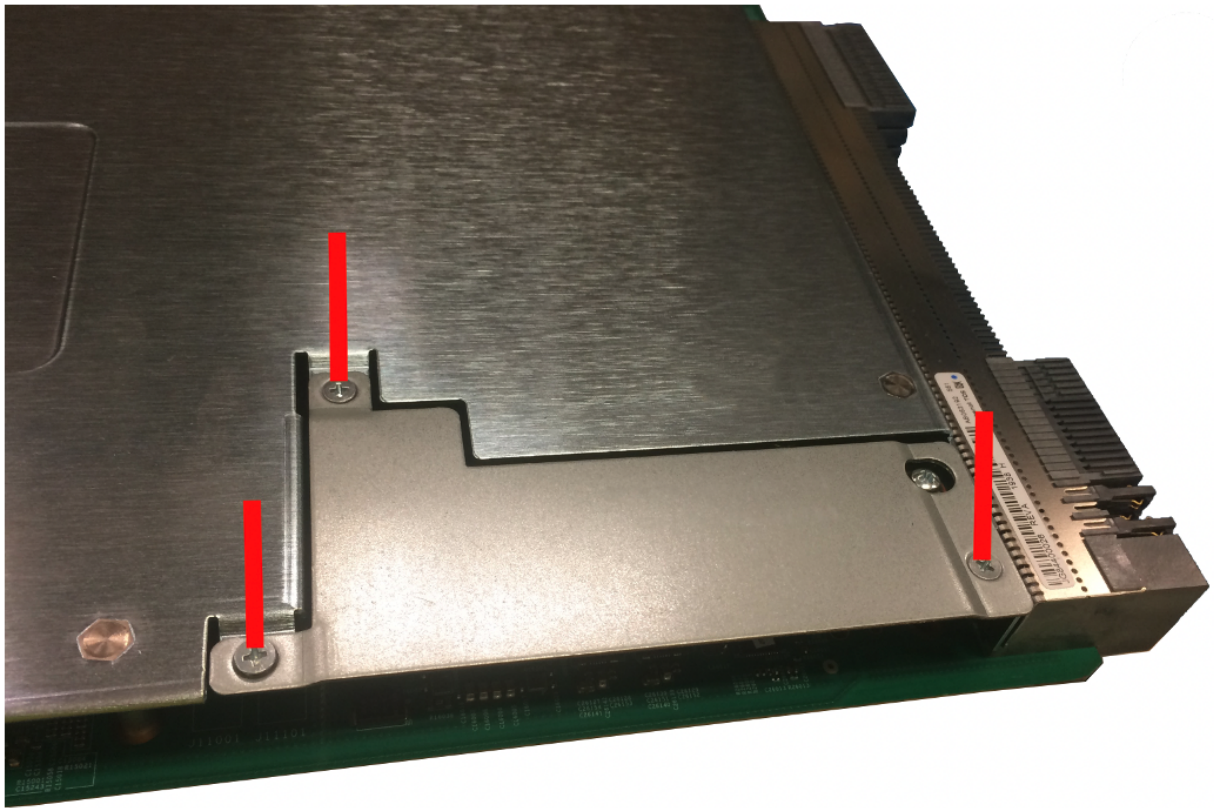
Non-Volatile Memory Device	Description
ID EEPROM	Only used to store FRU identification data. No user data is stored.
PMB (Processor Mezzanine Board) mezzanine	Boot flash monitor for PMB processor; stores the boot loader/monitor image for the PMB. No user data is stored.

Removing the SSD from SRX5K-SPC3

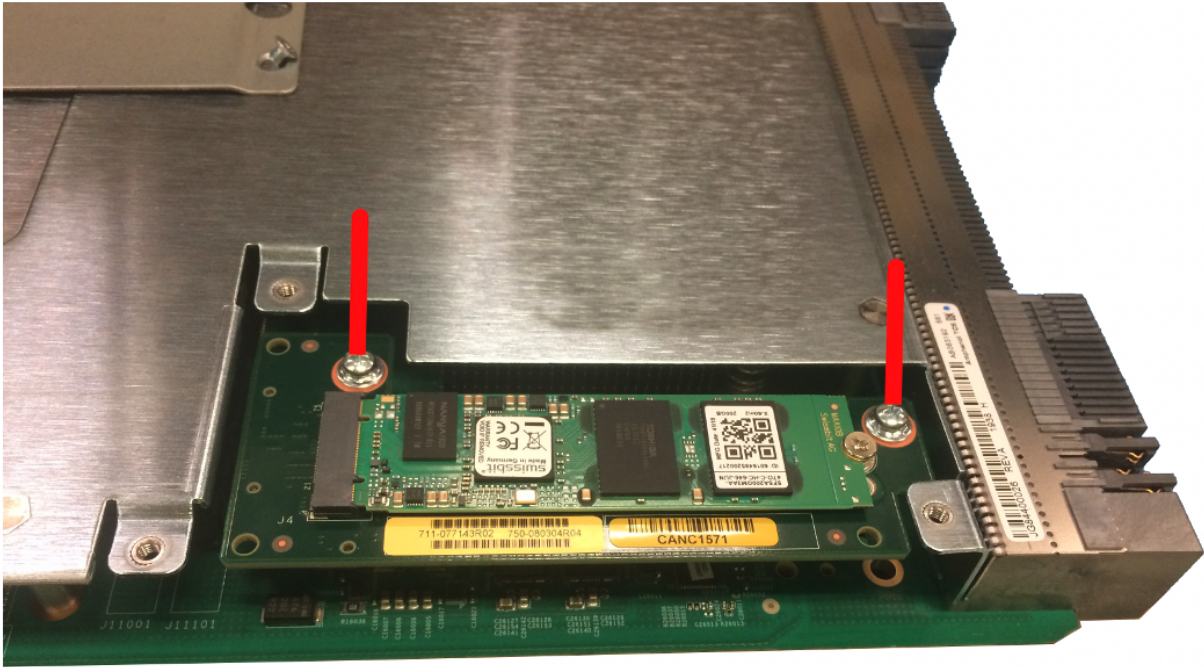
This procedure explains how to remove the solid-state drive (SSD) that is located on the top right corner of the SRX5K-SPC3.

1. Place an electrostatic bag or antistatic mat on a flat, stable surface to receive the SSD.
2. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to the ESD point on the chassis.

3. Remove the three screws securing the SSD cover plate by using the Phillips (+) screwdriver.



4. Remove the two screws holding the SSD in place to the SPC3 and gently remove the SSD.



5. Place the SSD on the antistatic mat or in the electrostatic bag.
6. Place the SSD cover plate back on the SPC3 and tighten the three screws securing the SSD cover plate.

Fan Control Card (SRX5800-HC-FAN)

Non-Volatile Memory Device	Description
ID EEPROM	Only stores FRU identification data. No user data is stored.

Power Supplies

Part numbers of Power Supplies:

- SRX5600-PWR-AC
- SRX5600-PWR-DC

- SRX5800-PWR-AC
- SRX5800-PWR-DC
- SRX5600-PWR-2400-DC-S
- SRX5600-PWR-2520-AC-S
- SRX5800-PWR-4100-AC
- SRX5800-PWR-4100-DC-S

Non-Volatile Memory Device	Description
Internal ID EEPROM	Used to store FRU identification data. No user data is stored.

Juniper Networks certifies that all the other components of the SRX5400, SRX5600, and SRX5800 Services Gateways are volatile, so they do not store any data/information after the services gateway is switched off.

RELATED DOCUMENTATION

For more information, please refer to the the [SRX5800 Services Gateway Hardware Guide](#), or [SRX5600 Services Gateway Hardware Guide](#), or [SRX5400 Services Gateway Hardware Guide](#).