

# Juniper Networks SRX100, SRX210, SRX220, SRX240 and SRX650 Services Gateways

# **Security Policy**

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### 1. Module Overview

Juniper Networks SRX100, SRX210, SRX220, SRX240 and SRX650 Services Gateways are secure routers that provide essential capabilities that connect, secure, and manage work force locations sized from handfuls to hundreds of users. By consolidating fast, highly available switching, routing, security, and applications capabilities in a single device, enterprises can economically deliver new services, safe connectivity, and a satisfying end user experience. All SRX Series Services Gateways, including products scaled for the branch, campus and data center applications, are powered by Juniper Networks JUNOS —the proven operating system that provides unmatched consistency, better performance with services, and superior infrastructure protection at a lower total cost of ownership.

The Juniper Networks Services Gateways for the branch consist of models SRX100, SRX210, SRX220, SRX240 and SRX650 running JUNOS-FIPS, a version of JUNOS created specifically for FIPS compliance. The validated version of JUNOS-FIPS is 10.4R3; the image is junos-srxsme-10.4R3.4-fips.tgz.

The cryptographic module is defined as a multiple-chip standalone module that executes JUNOS-FIPS firmware on any of the Juniper Networks SRX-Series gateways listed in the table below. The cryptographic boundary for the SRX100, SRX210, SRX220 and SRX240 is defined as the outer edge of the chassis. The cryptographic boundary for the SRX650 is the outer edge of the chassis. excluding the power supply module. The cryptographic module's operational environment is a limited operational environment.

# **SRX-Series Configurations**

Series	Model	Hardware version
SRX-Series	SRX100	SRX100B, SRX100H
	SRX210	SRX210B, SRX210BE, SRX210H, SRX210HE, SRX210H-POE, SRX210HE-POE
	SRX220	SRX220H, SRX220H-POE
	SRX240	SRX240B, SRX240H, SRX240H-POE
	SRX650	SRX650-BASE-SRE6-645AP, SRX650-BASE-SRE6-645DP

Figure 1 depicts the SRX series without tamper seals. For depictions of the units with tamper seals, see section 9.



# Figure 1. Images of the Cryptographic Modules

# **SRX100**



# **SRX210**



# **SRX220**



# **SRX240**





# **SRX650**





# 2. Security Level

The cryptographic module meets the overall requirements applicable to Level 2 security of FIPS 140-2.

# Security Level

Security Requirements Section	Level
Cryptographic Module Specification	2
Module Ports and Interfaces	2
Roles, Services and Authentication	3
Finite State Model	2
Physical Security	2
Operational Environment	N/A
Cryptographic Key Management	2
EMI/EMC	3
Self-Tests	2
Design Assurance	3
Mitigation of Other Attacks	N/A

# 3. Modes of Operation

### **Approved Mode of Operation**

The cryptographic modules support FIPS-Approved algorithms as follows:

- AES 128, 192, 256 for encryption/decryption
- DSA with 1024-bit keys for digital signature generation and verification
- RSA with 1024 or 2048-bit keys for digital signature generation and verification
- Triple-DES for encryption/decryption
- SHA-1 for hashing
- SHA-2 for hashing (SHA-256)
- HMAC-SHA-1
- HMAC-SHA-256
- FIPS 186-2 RNG (with Change Notice)

The cryptographic modules also support the following non-Approved algorithms which are allowed for use in FIPS mode:

- RSA with 1024-bit keys (key wrapping; key establishment methodology provides 80 bits of encryption strength)
- Diffie-Hellman with 1536-bit keys (key agreement; key establishment methodology provides 96 bits of encryption strength)

The cryptographic modules support the commercially available IKEv1, and SSH protocols for key establishment in accordance with FIPS 140-2 Annex D.



The cryptographic module contains a non-FIPS validated deterministic random number generator (RNG) that is compliant with the FIPS 186-2.

# Placing the Module in the Approved Mode of Operation

Once the JUNOS-FIPS firmware image junos-srxsme-10.4R3.4-fips.tgz is installed on the device, has successfully run its integrity and self-tests, it is operating in the approved mode. The Crypto-Officer must ensure that the backup image of the firmware is also a JUNOS-FIPS image by issuing the *request system* snapshot command. No further configuration is necessary for the purpose of placing it in FIPS mode.

# **Non-FIPS Mode of Operation**

The cryptographic module does not provide a non-Approved mode of operation.

### 4. Ports and Interfaces

The cryptographic module supports the following physical ports and corresponding logical interfaces:

• Ethernet: Data Input, Data Output, Control Input, Status Outputs

• Serial: Control Input, Status Outputs

• Power interface: Power Input

Reset: Control InputLEDs: Status Output

The flow of input and output of data, control, and status is managed by the cryptographic module. Details of each models hardware is available in the guides listed below.

# Hardware Guides

Model	Document Title	Download location
SRX100	SRX100 Hardware Guide	http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/hardware/srx100/index.html
SRX210	SRX210 Hardware Guide	http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/hardware/srx210/srx210.html
SRX220	SRX220 Hardware Guide	http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/hardware/SRX220/index.html
SRX240	SRX240 Hardware Guide	http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/hardware/srx240/index.html
SRX650	SRX650 Hardware Guide	http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/hardware/SRX650/HW/index.html

Control input options and status output (not provided by the hardware) are described in the *JUNOS Software System Basics Configuration Guide*, *Release 10.4* which is available for download at: <a href="http://www.juniper.net/techpubs/software/junos-srx/junos-srx10.4/index.html">http://www.juniper.net/techpubs/software/junos-srx/junos-srx10.4/index.html</a>.

# 5. Identification and Authentication Policy

# **Assumption of Roles**

The cryptographic module supports two distinct operator roles as follows:

• Cryptographic Officer (CO)



- User (read-write)
- User (read-only)

The cryptographic module enforces the separation of roles using either identity-based or role-based operator authentication. Identitybased authentication occurs when authentication is performed via local authentication database; role-based authentication occurs when an external authentication server (e.g. RADIUS or TACACS) is used.



# Roles and Required Identification and Authentication

Role	Type of Authentication	Authentication Data
Cryptographic Officer	Identity-based operator authentication	Via Console: Username and password  Via SSH: Password or RSA/DSA signature verification when using public-key authentication
	Role-based authentication	Via RADIUS or TACACS+: Pre-shared secret, minimum 10 characters
User (read-write) and User (read-only)	Identity-based operator authentication	Via Console: Username and password  Via SSH: Password or RSA/DSA signature verification when using public-key authentication
	Role-based authentication	Via RADIUS or TACACS+: Pre-shared secret, minimum 10 characters



# Strengths of Authentication Mechanisms

Authentication Mechanism	Strength of Mechanism
Username and password	The module enforces 10-character passwords (at minimum) chosen from the 96+ human readable ASCII characters.
	The module enforces a timed access mechanism as follows: For the first two failed attempts (assuming 0 time to process), no timed access is enforced. Upon the third attempt, the module enforces a 5-second delay. Each failed attempt thereafter results in an additional 5-second delay above the previous (e.g. 4 <sup>th</sup> failed attempt = 10-second delay, 5 <sup>th</sup> failed attempt = 15-second delay, 6 <sup>th</sup> failed attempt = 20-second delay, 7 <sup>th</sup> failed attempt = 25-second delay).
	This leads to a maximum of 7 possible attempts in a one-minute period for each getty. The best approach for the attacker would be to disconnect after 4 failed attempts, and wait for a new getty to be spawned. This would allow the attacker to perform roughly 9.6 attempts per minute (576 attempts per hour/60 mins); this would be rounded down to 9 per minute, because there is no such thing as 0.6 attempts. Thus the probability of a successful random attempt is $1/96^{10}$ , which is less than $1/1$ million. The probability of a success with multiple consecutive attempts in a one-minute period is $9/(96^{10})$ , which is less than $1/100,000$ .
RSA signature	The module supports RSA (1024 or 2048-bit), which has a minimum equivalent computational resistance to attack of either 2 <sup>80</sup> or 2 <sup>112</sup> depending on the modulus size. Thus the probability of a successful random attempt is $1/(2^{80})$ or $1/(2^{112})$ , which are both less than $1/1,000,000$ . The probability of a success with multiple consecutive attempts in a one-minute period is $5.6e7/(2^{80})$ or $5.6e7/(2^{112})$ , which are both less than $1/100,000$ .
DSA signature	The module supports DSA (1024-bit only) which have an equivalent computational resistance to attack of $2^{80}$ . Thus the probability of a successful random attempt is $1/2^{80}$ , which is less than $1/1,000,000$ . The probability of a success with multiple consecutive attempts in a one-minute period is $5.6e7/(2^{80})$ , which is less than $1/100,000$ .



# **6. Access Control Policy**

# **Roles and Services**

Services Authorized for Roles

Role	Authorized Services
Cryptographic Officer:	Configuration Mode: Allows the CO to configure the gateway.
Configures and monitors the module via a console or SSH	Operational Mode: Allows the user to modify the state of the gateway. (Example: shutdown, reboot)
connection. As root or super-user, the Cryptographic Officer has permission to view and edit secrets	Status Checks: Allows the user to get the current status of the gateway, including logs and statistics.
within the module	Zeroize: Allows the user to zeroize the configuration (all CSPs) within the module.
	SSH: Provides encrypted login via the SSH protocol.
	Console Access: Provides direct login access via the console.
	Self-tests: Allows the user to perform cryptographic self-tests by restarting the module.
	Account Management: Allows the user to create other administrative accounts.
	<u>Tamper Seals</u> : Ordering, installing, maintaining, storing and examining tamper-evident seals.
User (read-only):	Configuration Mode: Allows the user to view the gateway configuration.
Configures and monitors the gateway via the console or SSH.	Operational Mode: Allows the user to modify the state of the gateway. (Example: shutdown, reboot)
May not change the configuration.	Status Checks: Allows the user to get the current status of the gateway, including logs and statistics.
	SSH: Provides encrypted login via the SSH protocol.
	Console Access: Provides direct login access via the console.
	Self-tests: Allows the user to perform cryptographic self-tests by restarting the module.
User (read-write):	Configuration Mode: Allows the user to configure the gateway.
Configures and monitors the gateway via the console or SSH.	Operational Mode: Allows the user to modify the state of the gateway. (Example: shutdown, reboot)
May change the configuration.	Status Checks: Allows the user to get the current status of the gateway, including logs and statistics.
	Zeroize: Allows the user to zeroize the configuration (all CSPs) within the module.
	SSH: Provides encrypted login via the SSH protocol.
	Console Access: Provides direct login access via the console.
	Self-tests: Allows the user to perform cryptographic self-tests by restarting the module.

# **Unauthenticated Services**

The cryptographic module supports the following unauthenticated services:

- Show Status: Provides the current status of the cryptographic module
- Routing Protocols: Unauthenticated routing protocols (e.g., TCP, UDP)
- SNMP Traps (Status)



# **Definition of Critical Security Parameters (CSPs)**

# Table of CSPs

CSP	Description
SSH Private Host Key	The first time SSH is configured, the key is generated. RSA, DSA. Used to Identify the host. 1024-bit or 2048-bit length.
SSH Session Key	Session keys used with SSH, TDES (3 key), AES 128, 192, 256, HMAC-SHA-1 key (160), DH Private Key 1024
User Authentication Key	HMAC-SHA-1 Key
	SHA-1 hash of user password with hard-coded salt value. Used to authenticate the user to the module.
CO Authentication Key	HMAC-SHA-1 Key
	SHA-1 hash of user password with hard-coded salt value. Used to authenticate the CO to the module.
IPsec SAs	Session keys used within IPsec.
	TDES (3 key), HMAC-SHA-1
DH Private Key	Diffie-Hellman 1536-bit private key used in IKE and SSH protocol exchange
RADIUS shared secret	Used to authenticate COs and Users (10 chars minimum)
	This includes the Authentication Data Block
TACACS+ shared secret	Used to authenticate COs and Users (10 chars minimum)
	This includes the Authentication Data Block
Approved RNG State	RNG seed and seed key
SNMPv3 security key	Key used for privacy and/or authentication by SNMPv3 (AES, DES, 3DES, HMAC SHA-1)



# **Definition of Public Keys**

# Table of Public Keys

Key	Description/Usage
SSH Public Host Key	First time SSH is configured, the key is generated. RSA (1024 or 2048-bit), DSA. Identifies the host.
User Authentication Public Keys	Used to authenticate a user to the module via SSH. RSA (1024 or 2048-bit) or DSA
CO Authentication Public Keys	Used to authenticate the CO to the module via SSH. RSA (1024 or 2048-bit) or DSA
JuniperRootCA	RSA 2048-bit X.509 certificate  Used to verify the integrity and authenticity of the firmware.
PackageCA	RSA 2048-bit X.509 certificate  Used to verify the integrity and authenticity of the firmware.
DH Public Keys	Used within IKE and SSH for key establishment.



### **Definition of CSP Modes of Access**

Table 8 defines the relationship between access to CSPs and the different module services. The modes of access shown in the table are defined as follows:

### CSP Access Rights within Roles & Services

Role			Cryptographic Keys and CSP Access Operation	
СО	User (RO)	User (RW)	Service	R=Read, W=Write, D=Delete
Х			Configuration Mode	All CSPs (R, W, D)
	X		Configuration Mode	Read access to CSPs (R)
		х	Configuration Mode	All CSPs except changing other account passwords (R, W, D)
X			Account Management	Creates or removes passwords ( <b>W</b> , <b>D</b> )
х	х	X	Operational Mode	No access to CSPs
х	х	Х	Status Checks	No access to CSPs
х		х	Zeroize	All CSPs (D)
х	х	х	SSH	SSH session key (R)
Х	х	х	Console Access	CO Authentication Key, User Authentication Key (R)
Х	х	х	Self-tests	No access to CSPs
Х			Tamper Seals	No access to CSPs

# 7. Operational Environment

The FIPS 140-2 Area 6 Operational Environment requirements are not applicable because the cryptographic module has a limited operational environment.

# 8. Security Rules

The cryptographic module design corresponds to the cryptographic module security rules. This section documents the security rules enforced by the cryptographic module to implement the security requirements of a FIPS 140-2 Level 2 module.

The cryptographic module provides three distinct operator roles. These are the User (read-write) role, User (read-only) role and the Cryptographic Officer role.

The cryptographic module support both role-based and identity-based authentication mechanisms.

Authentication of identity to an authorized role is required for all services that modify, disclose, or substitute CSPs, use Approved security functions, or otherwise affect the security of the cryptographic modules.

The cryptographic module performs the following tests:

• Power up tests



- Cryptographic algorithm tests
  - Hardware (IPSec acceleration):
    - TDES KAT
    - AES KAT
    - SHA-1 KAT
    - SHA-256 KAT
    - HMAC-SHA-1 KAT
    - HMAC-SHA-256 KAT
  - Software (general purpose):
    - TDES KAT
    - AES KAT
    - SHA-1 KAT
    - SHA-256 KAT
    - HMAC-SHA-1 KAT
    - HMAC-SHA-256 KAT
    - RSA pairwise consistency test (sign/verify and encrypt/decrypt) and KAT
    - DSA pairwise consistency test (sign/verify) and KAT
    - FIPS 186-2 RNG KAT
    - KDF KATs
- o Firmware integrity test:
  - RSA digital signature verification (PKCS1.5, 2048-bit key, SHA-1) and SHA-1 hash verification
- Conditional tests
  - Pairwise consistency tests
    - RSA pairwise consistency test (sign/verify and encrypt/decrypt)
    - DSA pairwise consistency test (sign/verify)
  - o Firmware load test: RSA digital signature verification (2048-bit key)
  - Manual key entry test: Duplicate key entries test
  - Continuous random number generator test: performed on the Approved FIPS 186-2, Appendix 3.1 RNG, and on a non-Approved RNG that is used to seed the Approved RNG.
  - Bypass test is not applicable.

Any time the cryptographic module is in an idle state, the operator is capable of commanding the modules to perform the power-up self-test by power-cycling the module.

Prior to each use, the internal RNG is tested using the continuous random number generation conditional test.

Data output is inhibited during key generation, self-tests, zeroization, and error states.

Status information does not contain CSPs or sensitive data that if misused could lead to a compromise of the modules.

The module supports concurrent operators.

# 9. Physical Security Policy

### **Physical Security Mechanisms**

The modules physical embodiment is that of a multi-chip standalone device that meets Level 2 Physical Security requirements. The module is completely enclosed in a rectangular nickel or clear zinc coated, cold rolled steel, plated steel and brushed aluminum enclosure. There are no ventilation holes, gaps, slits, cracks, slots, or crevices that would allow observation of any kind to any component contained within the physically contiguous cryptographic boundary. Tamper evident seals are used to provide evidence in



case the modules are physically tampered with. Tamper evident seals must be applied by the Cryptographic Officer to operate as FIPS 140-2 Approved modules. Seals are available for order from Juniper using part number JNPR-FIPS-TAMPER-LBLS.

The Cryptographic Officer is responsible for securing and having control at all times of any unused seals and the direct control and observation of any changes to the module such as reconfigurations where the tamper evident seals or security appliances are removed or installed to ensure the security of the module is maintained during such changes and the module is returned to a FIPS Approved state.

# Inspection/Testing of Physical Security Mechanisms

Physical Security Mechanisms	Recommended Frequency of Inspection/Test	Inspection/Test Guidance Details
Tamper labels, opaque metal enclosure.	Upon receipt of the module and per security policy by the Cryptographic Officer.	Labels should be free of any tamper evidence.

### **Tamper Seal Placement**

**Seal Application Instructions** 

For all seal applications, the Cryptographic Officer should observe the following instructions.

- Handle the seals with care. Do not touch the adhesive side.
- All surfaces to which the seals will be applied must be clean and dry. Ensure all surfaces are clean and clear of any residue.
- Apply with firm pressure across the seal to ensure adhesion. Allow at least 1 hour for the adhesive to cure.

### SRX100 (1 seal), SRX210 (1 seal)

A tamper evident seal shall be applied to the following location (see highlighted pointers):

• The top of the chassis, covering one of the chassis screws.



Figure 2. SRX100 Tamper Evident Seal Location (Top)





Figure 3. SRX210 Tamper Evident Seal Location (Top)

# SRX220 (5 seals)

Tamper evident seals shall be applied to the following locations (see highlighted pointers):

- The front of the module:
  - One seal, horizontally across the left edge of the leftmost installed interface card or cover plate.
  - One seal, horizontally across the right edge of the leftmost installed interface card or cover plate, and extending on to the edge of the rightmost installed interface card or cover plate.
  - One seal, vertically across both the rightmost installed interface card or cover plate and the compact flash card slot below it, extending on to the top and bottom of the chassis.
- The left and right sides of the module:
  - One seal extending from the top to the bottom of the chassis.



Figure 4.SRX220 Tamper Evident Seal Location (Front)



Figure 5.SRX220 Tamper Evident Seal Location (Side)



### **SRX240 (8 seals)**

Tamper evident seals shall be applied to the following locations (see highlighted pointers):

- The front of the module, vertically, across each of the installed interface cards, or slot cover plates, extending on to the top and bottom of the chassis of the module
- The left and right sides of the module, extending from the top of the chassis to the bottom.



Figure 6. SRX240 Tamper Evident Seal Location (Front)



Figure 7. SRX240 Tamper Evident Seal Location (Right Side)



Figure 8. SRX240 Tamper Evident Seal Location (Left Side)

# **SRX650** (19 seals)

Tamper evident seals shall be applied to the following locations (see highlighted pointers):

- The front of the module:
  - O Two seals, vertically across the center part of each of the installed interface cards, or slot cover plates, numbered 1 through 4 (see below) extending on to the top and bottom of the chassis of the module.
  - o Two seals, vertically across the center part of each of the installed interface cards, or slot cover plates, numbered 5 through 8 (see below) extending on to the top and bottom of the chassis of the module.
  - One seal, vertically, across the left edge of the slot covers marked 3 and 4 (see below), extending from the bottom of the chassis on to the bottom of the slot cover marked 2.
  - Four labels, horizontally across the right edge of the slot covers marked 5-8, extending on to the right side of the chassis.



- Two labels, horizontally across the left edge of the slot covers marked 1 and 2, extending on to the left front face of the chassis.
- One seal to both the left and right sides of the module, extending from the side of the chassis on to the bottom.
- The rear of the module:
  - O Two seals, vertically across the central part each of the installed interface cards, or slot cover plates, extending on to the top and bottom of the chassis of the module.
  - O Two seals, vertically across each of the installed power supplies or cover plates, extending on to the top and bottom of the chassis of the module.
  - Two seals, vertically across the air filter cover plate, extending on to the top and bottom of the chassis of the module.



Figure 9. SRX650 Tamper Evident Seal Locations (Front)

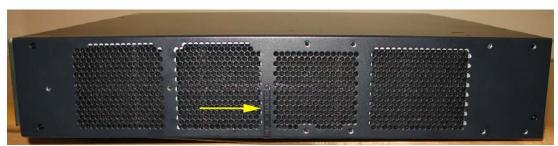


Figure 10. SRX650 Tamper Evident Seal Location (Left Side)



Figure 11. SRX650 Tamper Evident Seal Location (Right Side)



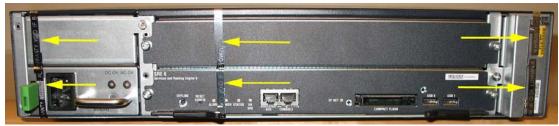


Figure 12. SRX650 Tamper Evident Seal Location (Rear)

# 10. Cryptographic Algorithm Validation

# Cryptographic Algorithm Validation Certificates

Algorithm	Certificate Number
AES-CBC 128/192/256	1624
3DES-CBC	1064
SHA-1, SHA-256	1433
HMAC SHA-1, HMAC SHA-256	955
FIPS 186-2 RNG	871
DSA 1024	510
RSA 1024/2048	802

# 10. Mitigation of Other Attacks Policy

The module has not been designed to mitigate attacks that are outside the scope of FIPS 140-2.

# Mitigation of Other Attacks

Other Attacks	Mitigation Mechanism	Specific Limitations
N/A	N/A	N/A



# 11. Acronyms

ACRONYM	DESCRIPTION
AES	Advanced Encryption Standard
DSA	Digital Signature Algorithm
EMC	Electromagnetic Compatibility
FIPS	Federal Information Processing Standard
HMAC-SHA-1	Keyed-Hash Message Authentication Code
IKE	Internet Key Exchange Protocol
IPsec	Internet Protocol Security
MD5	Message Digest 5
RADIUS	Remote Authentication Dial-In User Service
RSA	Public-key encryption technology developed by RSA Data Security, Inc. The acronym stands for Rivest, Shamir, and Adelman.
SHA-1	Secure Hash Algorithms
SSH	Secure Shell
SSL	Secure Sockets Layer
TACACS	Terminal Access Controller Access Control System
TDES	Triple - Data Encryption Standard

# **About Juniper Networks**

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