



Product Overview

Now more than ever, network operators need the ability to easily manage security policies and to have visibility into potential security concerns in the network. At the same time, they need to invest their time in monitoring and operating secure networks. Juniper Networks NSM3000 and NSMXpress enable IT departments not only to control the entire device life cycle with a single, centralized solution, but also provides visibility with a complete set of investigative and reporting tools.

Product Description

Juniper Networks® NSMXpress and NSM3000 are purpose built security hardened appliance versions of Juniper Networks Network and Security Manager (NSM) optimized towards providing a single centralized management solution to effectively manage Juniper Networks family of devices including routers, switches, and firewalls.

While the NSMXpress is primarily geared towards small to mid market, the NSM3000 scales to the requirements of large enterprise customers with the capability to manage up to 1500 devices. These appliances, which install in minutes with high availability (HA) support, not only simplify the complexity of device administration by providing a single integrated management interface that controls every device parameter, but also eliminate the need to have dedicated resources for maintaining the management solution.

NSM3000 and NSMXpress have the following features:

- Provides an appliance version of NSM with a security hardened OS
- Offers centralized, end-to-end device life cycle management for granular control of configuration, network settings and security policies
- Allows for delegation of administrative roles, which provides relevant access to those who need it
- Offers easy installation with operational efficiency that delivers lower total cost of ownership (TCO)
- Provides dedicated HA support

Architecture and Key Components

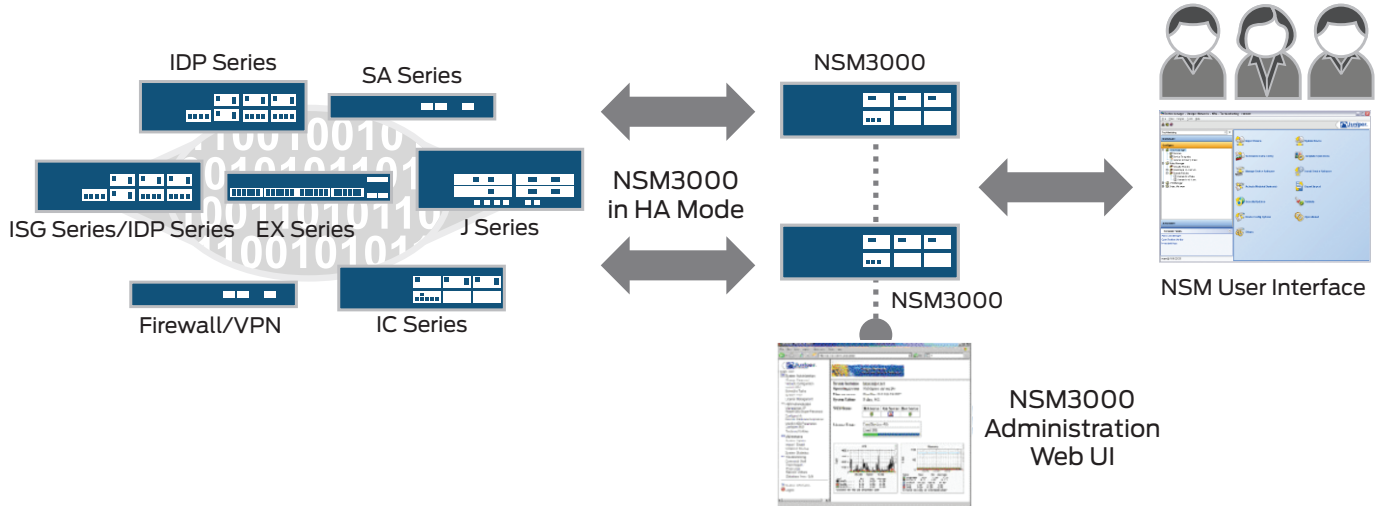


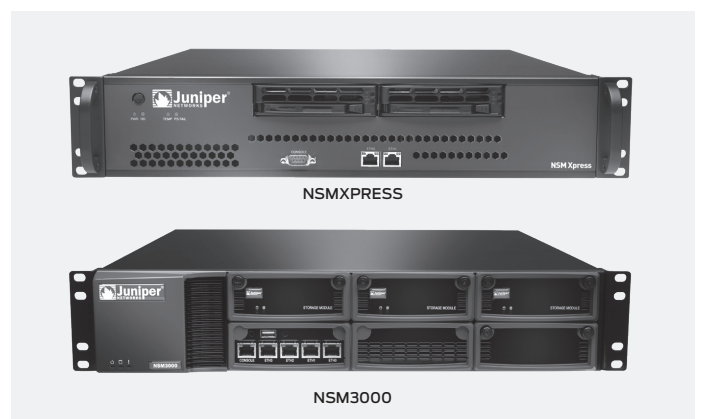
Figure 1: Managed Juniper Networks devices

Features and Benefits

FEATURES	FEATURE DESCRIPTION	BENEFITS
Hardened OS	Juniper Networks security team monitors and maintains the OS, which is optimized for performance and security.	Users don't have to worry about security vulnerabilities, support or patch management for the OS.
Multi-user Web-based management	Intuitive Web UI for managing and maintaining the appliance, with multi-user, role-based access control.	Allows multiple role-based users to configure common appliance-specific parameters and tasks like network settings, scheduling updates, troubleshooting, utilities and backups via a Web interface. NSM appliance administrators can be assigned specific predefined roles with an option of RADIUS-based authentication.
Recovery option	Menu-driven recovery option allows users to revert back to factory defaults or restore to the last configuration.	Users can easily reset the box to its original state or quickly restore lost data.
Scheduled database backups	Supports both local and remote backups. By default it will perform nightly back-ups locally.	Users can set up an automatic task for backing up their data either locally or remotely.
Status monitoring	The system monitors the status of the NSM appliance and sends daily emails to the administrator regarding the health of the appliance.	Users can monitor and maintain the health of the appliance.
Server role option	Ability exists to choose the role of the appliance to be either a regional server or central manager.	User will get a chance to change the role of the server if needed. This is a one-time switch.
Central update	Updates are available in one place. NSM appliance can perform either automatic or manual updates.	It can download the latest OS upgrades and update NSM attack DB through proxy settings.
One stop support	Juniper Technical Assistance Center (JTAC) supports all aspects of NSM appliance.	Users don't have to go to several places to get support.

Juniper Networks Device Support

DEVICE TYPE	NSMXPRESS DEVICE SUPPORT	NSM3000 DEVICE SUPPORT
Firewall/VPN (SSG5, SSG20, SRX100, SRX210, SRX240, SRX650)	300	1500
IDP Series	25	50
High-end firewall/VPN (SRX3400, SRX3600, SRX5600, SRX5800)	25	100
M Series/MX Series	25	100
SA Series	30	50
IC Series	30	50
EX Series	300	1500
North Bound Interface (NBI) clients	5	5
NSM GUI clients	10	10



Product Comparison

	NSMXPRESS	NSM3000
Dimensions and Power		
Dimensions (W x H x D)	16.7 x 3.5 x 16.2 in (42.42 x 8.89 x 41.15 cm)	17.26 x 3.5 x 17.72 in (43.8 x 8.9 x 45 cm)
Weight	28.5 lb (12.94 kg) typical (unboxed)	27 lb (12.25 kg) w/ 1 power supply 30 lb (13.61 kg) w/ 2 power supplies
Rack mountable	Yes, 19 in	19 in rack front and rear or mid-mount
A/C power supply	100–240 VAC, 50–60 Hz, 2.5 A, 260 W	90 V to 264 V hot swap (dual supply option)/ cold swap (single supply)
System battery	CR2032 3 V lithium coin cell	CR2032 3 V lithium coin cell
Efficiency	65 percent minimum, at full load	80 PLUS Certified
MTBF	78,000 hours	91,000 hours
Material	18 gauge (.048 in) cold-rolled steel	18 gauge (.048 in) cold-rolled steel
Fans	Two externally accessible, hot-swappable ball-bearing fans	2x80 mm hot swap
Panel display	<ul style="list-style-type: none"> • Front panel power button • Power LED, temp • HDD activity 	<ul style="list-style-type: none"> • LEDs: power, hardware alert • HD activity and fail LED on drive tray

Ports

Traffic	Two RJ-45 Ethernet-10/100/1000 full or half-duplex (auto-negotiation)	4x RJ45 10/100/1000
Fast Ethernet	IEEE 802.3u compliant	IEEE 802.3u compliant
Gigabit Ethernet	IEEE 802.3ab compliant	IEEE 802.3ab compliant
Console	One 9-pin serial console port	One RJ45 serial console

Environment

Operating temp	50° F to 95° F (10° C to 35° C)	41° F to 104° F (5° C to 40° C)
Storage temp	-40° F to 158° F (-40° C to 70° C)	-40° F to 158° F (-40° C to 70° C)
Relative humidity (operating)	8% to 90% noncondensing	8% to 90% noncondensing
Relative humidity (storage)	5% to 90% noncondensing	5% to 95% noncondensing
Altitude (operating)	-50 to 10,000 ft (3,000 m)	10,000 ft maximum
Altitude (storage)	-50 to 35,000 ft (10,600 m)	40,000 ft maximum

Power Consumption

Thermal dissipation	416 BTU/hr (typical) 470 BTU/hr (max single power supply) 559 BTU/hr (max dual power supply)	Single power supply: <ul style="list-style-type: none"> • 89 W, 304 BTU/hr (typical) • 154 W, 526 BTU/hr (max) Dual power supplies: <ul style="list-style-type: none"> • 96 W, 327 BTU/hr (typical) • 162 W, 552 BTU/hr (max)
Peak inrush current	50 A max @ 115 VAC, 80 A max @ 230 VAC	40 A max @ 115 VAC, 80 A max @ 240 VAC

Certifications

Safety certifications	EN60950-1:2001+ A11, UL60950-1:2003, CSA C22.2 No. 60950-1, IEC 60950-1:2001	CSA 60950-1 (2003), UL 60950-1 (2003), EN 60950-1 (2001), IEC 60950-1 (2001), EN 60825-1 +A1+A2 (1994), EN 60825-2 (2000)
Emissions certifications	FCC class A, VCCI class A, CE class A	<ul style="list-style-type: none"> • FCC Part 15 Class A (2007) USA Radiated Emissions • EN 55022 Class A (2006) European Radiated Emissions • VCCI Class A (2007) Japanese Radiated Emissions
Warranty	90 days	90 days

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains and faster rollouts of new business models and ventures. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/us/en/products-services/.

Ordering Information

MODEL NUMBER	DESCRIPTION
NS-SM-A-BSE	NSMXpress, 25 devices
NS-SM-A-HA	NSMXpress, HA
NS-SM-XL-A-BSE	NSM3000, 25 devices
NS-SM-A-HA	NSMXpress, Regional Server HA
NS-SM-S-BSE	Network and Security Manager, 25 devices
NS-SM-ADD-25D	Network and Security Manager, additional 25 devices
NS-SM-ADD-50	Network and Security Manager, additional 50 devices
NS-SM-ADD-100	Network and Security Manager, additional 100 devices
NS-SM-ADD-500	Network and Security Manager, additional 500 devices
NS-SM-ADD-1K	Network and Security Manager, additional 1,000 devices

Spare SKU

NS-SM-A-FAN	Field upgradeable fan for NSMXpress
NS-SM-A-PS	Field upgradeable secondary power supply for NSMXpress
UNIV-1TB-SAS-HDD	Replacement 1TB hard drive for NSM3000
UNIV-250W-PS-AC	AC power supply (250 W) for NSM3000
UNIV-2U-RAILKIT	Rail kit for NSM3000
UNIV-MR2U-B-FAN	Replacement fan for NSM3000

Juniper Networks Device and Software Support

- **EX Series Ethernet Switches:**
EX3200 line, EX4200 line, EX8200 line
- **IC Series Unified Access Control Appliances:**
IC4000, IC4500, IC6000, IC6500
- **ISG Series Integrated Security Gateways:**
ISG1000, ISG1000 w/IDP, ISG2000, ISG2000 w/IDP
- **IDP Series Intrusion Detection and Prevention Appliances:**
IDP10, IDP50, IDP75, IDP100, IDP200, IDP250, IDP500, IDP600, IDP800, IDP1000, IDP1100, IDP8200
- **J Series Services Routers:**
J2320, J2350, J4350, J6350
- **M Series Multiservice Edge Routers:**
M7i, M10i, M40e, M120 and M320
- **MX Series 3D Universal Edge Routers:**
MX240, MX480 and MX960
- **SRX Series Services Gateways:**
SRX100, SRX210, SRX240, SRX650, SRX3400, SRX3600, SRX5600 and SRX5800

- **NetScreen Series Security Systems:**
NetScreen-Hardware Security Client (HSC), NetScreen-5GT, NetScreen-5GT ADSL, NetScreen-5XP, NetScreen-5XT, NetScreen-25, NetScreen-50, NetScreen-204, NetScreen-208, NetScreen-500, NetScreen-500 GPRS, NetScreen-5200, NetScreen-5400
- **SA Series SSL VPN Appliances:**
SA2000, SA2500, SA4000, SA4000 FIPS, SA4500, SA4500 FIPS, SA6000, SA6000 FIPS, SA6500, SA6500 FIPS
- **SSG Series Secure Services Gateways:**
SSG5, SSG20, SSG140, SSG320M, SSG350M, SSG520, SSG520M, SSG550, SSG550M
- **Junos® Operating System Support:**
Junos OS version 9.0 and above; forward support for Junos OS 9.6 software through schema update
- **ScreenOS® Support:**
ScreenOS version 5.0.0 and above
- **IDP Series Support:**
IDP Series version 4.0 and above
- **IVE Support:**
SA Series version 6.3 and above
- **IC Series Support:**
IC Series version 2.2 and above

Note: For more information on Network and Security Manager, please refer to the datasheet.

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.

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