



NetScreen-Security Manager and NSMXpress Release Notes

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Release 2007.3

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NOTE: NSM 2007.3 is released for software installations only. NSMXpress and NSM Central Manager upgrades to NSM 2007.3 will be released shortly.

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1 Version Summary

Juniper Networks NetScreen-Security Manager (NSM) is a comprehensive security management solution designed to manage device, network, and security configuration for integrated firewall, intrusion detection and prevention, and virtual private network (VPN) appliances, sensors, and systems. Juniper Networks NSMXpress is an appliance version of NSM.

The features in the following sections list the new features and enhancements in this NSM release and NSMXpress.

2 New Features

This section contains a list of new features and enhancements in this NSM release.

2.1 NSM Features

This section contains a list of new NSM features and enhancements in this NSM release.

- **Log out Admins**—The NSM super admin now has the ability to log out other admins.
- **Auto download of NSM client**—This feature allows auto download and upgrading of NSM Client from server side whenever there is a mismatch in NSM server and client version. This avoids the need to manually download the client from the support site.
- **NSM license enforcement**—NSM now requires a license to manage more than 25 devices. In order to manage more than 25 devices, a license key must be retrieved from the Juniper licensing server (LMS) and be installed onto the NSM server or Appliance.
- **Firmware upgrade in RMA state**—NSM allows to change the device firmware during the RMA-activate workflow.
- **Systems Management Web UI for NSMXpress**—System management Web interface for NSMXpress appliance.
- **Ability to delete jobs in Job Manager**—NSM allows users to delete all the jobs at once in the Job Manager.
- **Role Based Route Config Management**—NSM now gives you the ability to enable/disable the creation, modification, and deletion of routing configuration using NSM's role-based administration.
- **Same address in different zones do not create two objects**—If one address object is used for two zones, NSM will no longer push two objects to the device. For address objects in different zones, NSM will no longer append zone name when pushing the configuration to the device. When importing from device, NSM will combine address object of the same name and same content from different zones into single NSM object.

- **log-to-policy works immediately after Import**—It is no longer necessary to do a "Update device" for the log-to-policy feature to work.
- **PCAP retrieval from IDP standalone "On Demand"**—You can now choose to have PCAP retrieved from an IDP Standalone device running IDP 4.1r2 "on-demand" instead of the device sending NSM the PCAPs in log data.
- **Change to IDP Attack Group Table in NSM**—For performance reasons, the organization of the IDP attack group table in NSM is being changed to delete some "Response" categories.
- **Support IPSEC ESP-Null Encryption for IDP Inspection**—NSM enables/disables decapsulation IPSEC packets with null encryption for ISG1000/2000 with IDP.

2.2 ScreenOS Features

This section contains a list of new ScreenOS features and enhancements in this NSM release.

- **DIP Pool Enhancements**—ScreenOS 6.0 has increased the size of DIP (Dynamic IP) per VSYS and per interface from 252 to 1020. NSM now supports this range.
- **Extend VSYS Name Length to 20 Characters**—VSYS name now extended to 20 characters.
- **L2V support for ISG1000**—NSM now supports Layer 2 VSYS features on ISG1000 running ScreenOS 6.0.
- **Permitted Management IP Extension**—The number of manager-IPs has been increased and made configurable based on platform. The number of manager-IPs will vary depending on the platform. The total number of manager-IPs will be 50 plus 1 times the number of VSYS.
- **Recommended Action for ISG-2000/1000 devices**—The IDP "Recommended Action" feature is now available for ISG-2000/1000 devices running ScreenOS 6.0.
- **AutoConnect VPN Support**—The Auto-Connect VPN (ACVPN) feature was introduced in ScreenOS 6.0 to provide a scalable VPN solution. In a large enterprise with many sites and branch offices, a Hub-n-spoke configuration is deployed, where each branch site (Spoke) is only connected to a central site (the Hub). All communications between Spoke sites must go through hub, which is not scalable as the number of spoke sites increase. The ACVPN feature specifies a solution wherein auto-connected security tunnels are setup dynamically among the spoke sites by leveraging the NHRP (Next Hop Resolution protocol).
- **VLAN Retagging Support**—VLAN retagging is used when you want to redirect network traffic. It must be used in conjunction with Layer 2 switch and only support in L2V mode.

- **IM AV Support**—This feature extends embedded Anti-Virus feature to scan popular public Instant Messengers (IM) namely AIM, ICQ, MSN Messenger and Yahoo Messenger. In addition, error handling has been extended to provide more granular control of passing/dropping the traffic when AV scan-engine cannot give a clean/infected scan result at Root/Vsys level.
- **TACACS Server support**—NSM now supports Screen OS TACACS authentication server type. (Terminal Access Controller Access Control System).
- **Admin Authentication Policy**—NSM now supports the ScreenOS 6.0 feature where you are allowed to specify the sequence for authentication and fallback policies.
- **NSRP Active Passive (Support for route-sync)**—NSM now supports DRP route synchronization in ScreenOS 6.0 devices. Support includes changes in the "RTO Mirror" view under NSRP section of edit-device-cluster. n in the screen shot.
- **DST Enhancement**—NSM now supports the ScreenOS 6.0 improvements that allow customers to set Daylight Savings Time rules according to their country's standard.
- **tcp-syn-bit-check**—Before ScreenOS 6.0 the "tcp-syn-check" option does TCP syn bit checking and TCP 3 way handshake checking. In ScreenOS 6.0 a new option "tcp-syn-bit-check" is added for syn bit checking.

Enabling the original option of "tcp-syn-check" performs syn bit checking and TCP 3 way handshake. The value of "tcp-syn-bit-check" is not used in this case. To have just the syn bit checking the original option should be disabled and new option should be enabled.

- **High CPU Protection Support**—In ScreenOS 6.0 the packet dropping feature has been moved to the ASIC in order to prevent high CPU utilization during DOS attacks. In addition users can configure blacklists for the ASIC to drop the packets from and also configure CPU throttling threshold. NSM now supports these features.
- **New hardware support**
 - 1 ADSL 2 + PIC support for SSG500 and SSG140 product line running ScreenOS 6.0.
 - 16 Port Copper Gigabit PIM for SSG500 and SSG140 product line running ScreenOS 6.0.
 - 8 port Copper Gigabit PIM for SSG500 and SSG140 product line running ScreenOS 6.0.
 - 6x SFP PIM support for SSG500 and SSG140 product line running ScreenOS 6.0.
 - 1x SFP Mini-PIM support on SSG20 running ScreenOS 6.0
 - 1xSerial Mini-PIM support on SSG20 running ScreenOS 6.0.
 - Jumbo Frame Support on ISG1000 devices running ScreenOS 6.0

- Support for SSG 320 and 350 devices.
- E3 card support-SSG520, SSG550, SSG120, SSG140 devices support WAN I/O cards like T1/E1/DS3. ScreenOS 6.0 and now NSM supports an E3 card.
- Support for SHDSL PIC support in SSG500, SSG140-NSM now supports SHDSL PICs for SSG 500 and 140 devices
- Switch PIM Support-NSM now support three new switch PIMs for SSG140 and SSG500 devices. These new PIMs are:
 - 8 x 10/100/1000: 8-port 10/100/1000 tri-mode Ethernet switch with RJ45 copper interface.
 - N x SFP: N-port gigabit Ethernet switch with small form factor fiber interface. N is the number of ports; currently it is limited at 6, by the width and height of a PIM.
 - 16 x 10/100/1000: 16-port 10/100/1000 tri-mode Ethernet switch with RJ45 copper interface.

3 Upgrading NSMXpress and NSMCM Appliances



NOTE: NSM 2007.3 is released for software installations only. NSMXpress and NSM Central Manager upgrades to NSM 2007.3 will be released shortly.

3.1 Upgrading to NSM 2007.3 release on NSMXpress Appliance

The section in this procedure steps on how to upgrade to NSM 2007.3 on the NSMXpress appliance.



NOTE: NSM 2007.3 release requires a License File if you are managing more than 25 devices. You must have the License file available before performing the upgrade to NSM 2007.3 release. NSM installer will not proceed without the License file.

For information on the procedure of generating the License file, refer to the *NetScreen-Security Manager 2007.3 Installer Guide*.

Use the following procedure to upgrade to NSM 2007.3 to NSMXpress appliance.

1. From NSM Software Download page, click on the link **NSMXpress Server**.
2. Download the file nsm2007.3r1_servers_upgrade_rs.zip.
3. FTP or SCP this file onto your NSMXpress appliance.
4. Log in as the admin user, and answer "n" when prompted to run the setup wizard.
5. Execute **sudo su -** and enter the admin password to gain root access.

6. Confirm the unzip utility is present on the NSMXpress appliance by executing the following command:

```
which unzip
```

This gives you the location of the file if it is available. If it is not available, use the following procedure to install this utility.

```
yum install unzip
```

7. Navigate to the directory where you saved the management system installer file (typically the /tmp/ subdirectory).
8. Execute the following command to unzip the and save two files (nsm2007.3r1_servers_linux_x86.sh, upgrade-os.sh) and a directory (apps-rpms) on the NSMXpress system:

```
unzip nsm2007.3r1_servers_upgrade_rs.zip
```

9. Run the following command to automatically start the installation.

```
sh upgrade-os.sh nsm2007.3r1_servers_linux_x86.sh
```

The installer begins a series of pre-installation checks that ensures:

- You are installing the correct software for your operating system.
- All the necessary software binaries are present.
- You correctly logged in as root.
- You have installed a version of NetScreen-Security Manager preceding the current version you are installing.
- The system has sufficient disk space and RAM.

The installer then stops any running servers.

10. Type **2** to specify that you want to upgrade both device server and GUI server.

The installer next prompts you to configure additional options specific to your installation during the upgrade. This can include:

- Configuring High Availability
- Configuring interoperability with NetScreen-Statistical Report Server
- Configuring backup options
- Configuring https ports

If applicable, follow the installer prompts to configure these options.

The script next prompts if you want to restart the server(s) when finished.



NOTE: The management system installer indicates the results of its specific tasks and checks "Done" indicating that the installer successfully performed a task. "ok" indicates that the installer performed a check and verified that the condition was satisfied. "FAILED" indicates that the installer performed a task or check, but it was not successful.



NOTE: If you specify that you want to upgrade the device server and GUI server, all data previously configured in the system is restored. If you do not want to restore your previous configuration data, choose to have the installer perform a clean install of Central Manager.

11. Type **y** then press **Enter** to restart the server(s) when finished or type **n**, then press **Enter**, if you do not want to restart server processes.

The script prompts you to verify your upgrade configuration settings.

12. Verify your settings, and if they are correct, type **y** then press **Enter** to proceed or type **n**, then press **Enter**, for the installer to return you to the original selection prompt.

The upgrade proceeds automatically with the installer performing the following actions:

- Extracts and decompresses the software payloads.
- Upgrades the device server.
- Upgrades the GUI server.
- Installs the HA server.
- Sets start scripts.
- Performs post-installation tasks such as removing the staging directory and starting the server processes (if configured).

Several messages display to confirm the installation progress. The installer runs for several minutes, then exits.

After the installation script finishes, it generates a log file with the output of the installation commands for troubleshooting purposes. The installer indicates the name of the installation log file and the directory location where it is saved. This file is saved by default in the `/usr/netscreen/DevSvr/var/errorLog` subdirectory.

13. After the successful installation, copy the installer file `nsm2007.3r1_servers_rs.sh` to `/var/install` directory and run the following commands as follows:

```
rm -f NSM-RS
chmod 755 nsm2007.3r1_servers_linux_x86.sh
ln -s nsm2007.3r1_servers_linux_x86.sh NSM-RS
```

3.2 Upgrading to NSM 2007.3 release on NSM Central Manager Appliance



NOTE: NSM 2007.3 release for Central Manager does not require a License File. Enforcement is built into the product.

Use the following procedure to upgrade to NSM 2007.3 to NSMCM appliance.

1. From NSM Software Download page, click on the link **Central Manager Server**.
2. Download the file `nsm2007.3r1_servers_upgrade_cm.zip`.
3. FTP or SCP this file onto your NSMCM appliance.
4. Log in as the admin user, and answer "n" when prompted to run the setup wizard.
5. Execute **sudo su -** and enter the admin password to gain root access.
6. Confirm the unzip utility is present on the NSMCM appliance by executing the following command:

```
which unzip
```

This gives you the location of the file if it available. If it is not available, use the following procedure to install this utility.

```
yum install unzip
```

7. Navigate to the directory where you saved the management system installer file (typically the `/tmp/` subdirectory).
8. Execute the following command to unzip the and save two files (`nsm2007.3r1_servers_cm.sh`, `upgrade-os.sh`) and a directory (`apps-rpms`) on the NSM Central Manager system:

```
unzip nsm2007.3r1_servers_upgrade_cm.zip
```

9. Run the following command to automatically start the installation.

```
sh upgrade-os.sh nsm2007.3r1_servers_cm.sh
```

The installer begins a series of pre-installation checks that ensures:

- You are installing the correct software for your operating system.
- All the necessary software binaries are present.
- You correctly logged in as root.
- You have installed a version of NetScreen-Security Manager preceding the current version you are installing.
- The system has sufficient disk space and RAM.

The installer then stops any running servers.

10. Type **1** to specify that you want to upgrade central manager server.

The installer next prompts you to configure additional options specific to your installation during the upgrade. This can include:

- Configuring High Availability
- Configuring backup options
- Configuring https ports

11. If applicable, follow the installer prompts to configure these options

12. The script next prompts if you want to restart the server(s) when finished.



NOTE: The management system installer indicates the results of its specific tasks and checks "Done" indicating that the installer successfully performed a task. "ok" indicates that the installer performed a check and verified that the condition was satisfied. "FAILED" indicates that the installer performed a task or check, but it was not successful.



NOTE: If you specify that you want to upgrade the Central Manger, all data previously configured in the system is restored. If you do not want to restore your previous configuration data, choose to have the installer perform a clean install of Central Manager.

13. Type **y** then press **Enter** to restart the server(s) when finished or type **n**, then press **Enter**, if you do not want to restart server processes.

The script prompts you to verify your upgrade configuration settings.

14. Verify your settings, and if they are correct, type **y** then press **Enter** to proceed or type **n**, then press **Enter**, for the installer to return you to the original selection prompt.

The upgrade proceeds automatically with the installer performing the following actions:

- Extracts and decompresses the software payloads.
- Upgrades central manager
- Installs the HA server.
- Sets start scripts.
- Performs post-installation tasks such as removing the staging directory and starting the server processes (if configured).

Several messages display to confirm the installation progress. The installer runs for several minutes, then exits.

After the installation script finishes, it generates a log file with the output of the installation commands for troubleshooting purposes. The installer indicates the name of the installation log file and the directory location where it is saved. This file is saved by default in the `/usr/netscreen/GuiSrv/var/errorLog` subdirectory.

15. After the successful installation, copy the installer file `nsm2007.3r1_servers_cm.sh` to `/var/install` directory and run the following commands as follows:

```
rm -f NSM-CM
chmod 755 nsm2007.3r1_servers_cm.sh
ln -s nsm2007.3r1_servers_linux_cm.sh NSM-CM
```

4 NSMXpress Data Migration

This section provides information on how to port data from an existing

- Solaris server to NSMXpress
- Linux server to NSMXpress

4.1 Solaris to NSMXpress Data Migration

On a Solaris Server

1. Upgrade the Solaris server to the latest NSM 2007.2 build.
2. Run `setperms` if NSM Server is running as root by using the following command:


```
/usr/netscreen/GuiSrv/utills/setperms.sh GuiSrv
/usr/netscreen/DevSrv/utills/setperms.sh DevSrv
```
3. Change to “nsm” user using the following command:


```
su - nsm
```
4. Run the exporter using the following command:


```
./xdbExporter.sh /var/netscreen/GuiSrv/xdb /var/netscreen/GuiSrv/csvfile.txt
```
5. Use FTP to copy `csvfile.txt` to a common location.

On NSMXpress

1. On the NSMXpress server, upgrade to the latest NSM 2007.2 build.

The build on the NSMXpress server must match exactly with the build you upgraded on the Solaris server.
2. Change to “nsm” user with command `sudo su - nsm` and admin password.
3. Use FTP to copy the `csvfile.txt` to `/var/netscreen/GuiSrv`.
4. Stop the `GuiSrv` and `DevSrv` processes with the following commands,

```
/usr/netscreen/GuiSvr/bin/guiSvr.sh stop
/usr/netscreen/DevSvr/bin/devSvr.sh stop
```

5. Run Importer using the following command:

```
./xdifImporter.sh /var/netscreen/GuiSvr/csvfile.txt
/var/netscreen/GuiSvr/xdB/init
```

6. Run xdbViewEdit using the following command and with the path of vi editor as /bin/vi,

```
/usr/netscreen/GuiSvr/Utils/.xdbViewEdit.sh
```

7. Change the IP address in the server table to that of NSMXpress.

```
Option 7
0.server.0
0.server.1
```

8. Delete the RSA key data from the brackets of `ourRsaPrivateKey` and `theirRsaPublicKey` in the `shadow_server` table. Do not delete the whole line; delete only the key data inside the brackets.

```
Option 7
0.shadow_server.1
```

9. Copy the one-time password from the `shadow_server` table.

10. Change the one-time password in `devSvr.cfg` to match the one-time password in the `shadow_server` table.

- a. Use the vi editor to edit the `/var/netscreen/DevSvr/devSvr.cfg` file.
- b. Replace the one-time password to match the one-time password from the `shadow_server` table.
- c. Delete the `ourRsaPrivateKey` and `theirRsaPublicKey` lines in `devSvr.cfg`.

11. Start GuiSvr and DevSvr by executing the following commands:

```
/usr/netscreen/GuiSvr/bin/guiSvr.sh start
/usr/netscreen/DevSvr/bin/devSvr.sh start
```

4.2 Linux to NSMXpress Data Migration

This section describes how to port data from an existing Linux server to NSMXpress using the latest Netscreen-Security Manager (NSM) 2007.2 build. This section makes the following assumptions:

- The IP address of the existing Linux server will be assigned to the new NSMXpress server.
- The versions of NSM are the same on the current Linux installation and the new NSMXpress installation.

On a Linux Server:

1. Upgrade a Linux server to the latest NSM 2007.2 build.
2. Stop the nsm processes.

```
/usr/netscreen/GuiSvr/bin/guiSvr.sh stop
/usr/netscreen/DevSvr/bin/devSvr.sh stop
```

3. Run `setperms.sh` on the Linux server if the NSM server was running as root. (Refer to the NSM installer guide for information on running `setperms.sh`.)
4. Execute the following commands to back up the NSM database from GuiSvr to the `Guidb.tar` archive file.

```
cd /var/netscreen
tar cvf Guidb.tar GuiSvr
```

5. If you want device logs to be migrated, execute the following commands to back up the NSM database from DevSvr to the `Devdb.tar` archive file.

```
cd /var/netscreen
tar cvf Devdb.tar DevSvr
```

6. Transfer the `Guidb.tar` and `Devdb.tar` archive files to a place where they can be retrieved later.
7. Shut down the Linux server.

On NSMXpress:

1. Using `nsm-setup.sh` change the ip of the NSMXpress server to the Linux server ip / netmask / gateway. Clean install latest NSM 2007.2 build (same as that on Linux box) using `nsm_setup` utility.
2. Change to “nsm” user and enter the admin password.

```
sudo su - nsm
```

3. Stop the servers after the installation.

```
/usr/netscreen/GuiSvr/bin/guiSvr.sh stop
/usr/netscreen/DevSvr/bin/devSvr.sh stop
```

4. To avoid conflicts between the NSMXpress xdb database and the database in `GuiDb.tar`, delete the `xdb` subdirectory.

```
cd /var/netscreen/GuiSvr
rm -rf xdb
```

5. Copy the `Guidb.tar` and `Devdb.tar` archive files to `/var/netscreen`.
6. Extract the database.

```
cd /var/netscreen ; tar xvf Guidb.tar
cd /var/netscreen ; tar xvf Devdb.tar
```



NOTE: If you migrate only the GuiSvr database, execute Steps 7, 9, 10, and 11 of Section 4.1, “Solaris to NSMXpress Data Migration” on page 10 to delete the existing RSA keys between devSvr and guiSvr from the shadow_server table and devSvr.cfg, so that they can be re-negotiated and established again.

7. Start the GuiSvr and DevSvr processes.

```
/usr/netscreen/GuiSvr/bin/guiSvr.sh start
/usr/netscreen/DevSvr/bin/devSvr.sh start
```

4.3 PGSQL Directory

After porting your data onto NSMXpress, all profile data is copied into the /pgsql directory. On NSMXpress, **pgsql** is a softlink and points to the following directory (on a separate partition), where in all the profiler related data is stored:

```
/var/netscreen/DevSvr/profiler_data
```

Manually move the contents of the /pgsql directory to profiler_data to separate the pgsq and log data on different partitions.

Separate pgsq Directory

After your database is untarred on NSMXpress, use the following steps to copy the pgsq directory to profiler_data to separate pgsq and log data on different partitions:

1. Navigate to the /pgsql directory by executing the following command.

```
cd /var/netscreen/DevSvr/pgsql
```

 command.
2. Copy the contents of the /pgsql directory to the /profiler_data directory

```
cp * /var/netscreen/DevSvr/profiler_data
```

Remove pgsq Directory

1. Execute the following commands to delete the /pgsql directory:

```
cd /var/netscreen/DevSvr/
rm -rf pgsq
```

2. Create a softlink for the /pgsql directory

```
ln -s /var/netscreen/DevSvr/profiler_data pgsq
```

5 User Privileges on NSMXpress

NSMXpress gives you the opportunity to execute commands with “root” privileges or “nsm” privileges and to switch back and forth.

- Log in as “admin” and execute the `sudo su - nsm` command any time you want to run an nsm-specific command, such as starting or stopping a service manually or running a CLI command.

- Log in as “admin” and execute the `sudo su -` command any time you want to reboot or shut down.
- Log in as “admin” to run the `nsm_setup` utility to configure various system settings and to install Regional Server or Central Manager.

The following procedure assumes you have initially logged in using “admin” and the default password “abc123”.

To change user privileges from user to admin:

1. Log in as an “nsm” user by entering the following command at the prompt:

```
[admin@NSMXpress ~]$ sudo su - nsm
Password: [admin password]
```

2. Change user privileges to “admin” by entering the following command at the prompt.

```
[nsm@NSMXpress ~]$ exit
```

3. Change to “root” by entering the following command at the prompt.

```
[admin@NSMXpress ~]$ sudo su -
Password: [admin password]
```

6 Addressed Issues

The following issues are addressed in this release.

- **259349**—Global templates are not visible in sub domains, when logged in as Domain administrator.
- **256662**—NSM Device Server shared configuration caused server crash due to high CPU utilization.
- **255403**—Device activation using configlet doesn't include Secondary NSM server ip
- **254423**—Deleting an Address object from NSM doesn't disable the policy rule in which the address was used
- **253633**—GuiServer reports timeout error on a large policy update to cluster devices
- **252212**—devSvr.cfg storageManager options are not consistent with Device Server UI storageManager options.
- **240157**—Incorrect vsys delta config after device import.
- **238170**—NSM lets you create more than 32 DNS proxy entries.
- **236810**—Cannot add BRI module for SSG140
- **226147**—Configuration of Dead Peer Detection parameters in VPN IKE Gateway is currently not supported in NSM.

- **235273**—Database versioning resulted in large DB containers resulting in delay in HA replication
- **234333**—Warning messages regarding NFS are seen when NSM*Xpress* is configured with shared disk configuration.
- **232880**—Permitted IP cannot be configured after applying schema update.
- **226147**—After importing a cluster and its vsys, delta configuration shows some Config on NSM but not on Device.

7 Known Issues

This section describes known issues with the current release. Known issues updates are released bi-monthly. You can subscribe to the updates by going to <http://www.juniper.net/customers/support> and selecting the Subscribe to Technical Bulletins option.

7.1 Limitations of Features

Installation of “Forward Support Update” files on NSM*Xpress* must be performed using root privileges. You can temporarily acquire root privileges by executing the command “sudo su –” after which you can run the install script.

7.2 Known Issues in NSM 2007.3

This section describes known issues with the current release. Whenever possible, a work-around is suggested following the description of the problem. Workaround information starts with “W/A:”.

- **263518**—Predefined attacks table is empty after new install of NSM.
W/A: Perform the operation of “Update NSM Attack Database”.
- **262885**—Cannot create more than one schedule job via webUI for scheduling reports and security updates.
- **262816**—logwalker process hangs and stops processing syslog logactions.
- **262708**—Egress Guaranteed Bandwidth for tunnel Interfaces is not getting updated to devices.
- **262183**—Packet data is in device and device is not reachable - "show packet data in external viewer" shows error message that "external viewer not configured" instead of "query timeout"
- **262153**—Changing Management IP in cluster does not get updated to device
- **261975**—Validate Policy directive gives error instead of showing the invalid rule.
- **261877**—Selecting Reboot Device on a device part of a nested group causes NSM trying to reboot all devices in the group

- **261862**—Webfiltering in NSM custom lists do not allow adding a url with a /
- **261550**—Validation error after upgrading a device out of band and performing "Adjust OS version".
- **261479**—Can not delete a custom attack object if it is selected in Action Manager based alerts
- **261398**—Cluster level Interface options shouldn't be seen at cluster member level
- **259834**—If a dynamic untrust interface is selected as a tunnel interface source, an IP address (such as 10.88.x.y) should be generated to use as the next-hop address (for static routes and NHTB entries) on peer devices.
- **259141**—SSU does not work after specified time from drop down.
- **258759**—SSG 320/350 - The 8xGE and 16xGE PIMs present in the device cannot be seen in NSM
- **258568**—When editing zones in the zone-based firewall or multicast rulebases, no pre/post rule options are available.

W/A: Set the install-on column value to “any” and the problem will not be seen.
- **256538**—When VSYS name is created with 20 characters, NSM creates the VSYS in untrust with the truncated characters
- **255125**—On re-import of a device with both firewall and multicast policies, either both policies must differ from the device policy or neither can differ. If this is not observed, then the re-import will hang at 84 %. It is advisable to do delta-config summary before re-import to validate these conditions. Otherwise server restart may be needed.
- **254084**—NSM profiler shows static data in “Detailed View” for some time.
- **252614**—NSM will not support configuring the Blacklist with a nonzero timeout value. Import of blacklist entries having non-zero timeout from Device not supported.
- **241230**—NSM GUI becomes blank for some-time while importing large number of VSYS existing in device. W/A: Launch another GUI for regular operation leaving the existing GUI to complete the task.
- **235779**—Policy validation will result in an error with empty Polymorphic objects.
- **235765**—An error will occur if the destination address of a Policy in Central Manager has an empty Polymorphic address object and the policy is updated to the regional server.
- **233940**—Job Manager shows success for a failed profiler start directive.
- **233465**—NSM client does not get redirected to the master server if backup server MIP IP is used.

- **227458**—After auto-purge, the Application/Network/Violation profiler views no longer show data for some ISG devices.
- **226340**—VPN monitor does not save filters.
- **226083**—After upgrade to 2007.1r2, the setperms.sh script has to be executed such that all the processes are started as a non-root user.
- **226080**—Installer exits with a -1 error when the /etc/sysctl.conf parameters are not updated.

W/A: Add the Shared memory shmmax values in the respective configuration & reboot the NSM server before starting the upgrade.

- **225681**—NSM is setting improper src interface while updating the device after the RMA device.
- **224573**—Wireless Interface Configuration is not supported for SSG Wireless devices.
- **224319**—Log Investigator times out when the NSM GUI has been idle for 30 minutes and an error “Index Timed Out” is displayed.

W/A: Ignore the error and select OK for the query to happen again.

- **224045**—Policy rule groups creation is displayed incorrectly in audit log.
- **224044**—NSM audit log shows a generic entry when a template is created with missing data.
- **223661**—NSM does not allow defining Supplemental CLI commands on a Cluster.
- **223573**—Adding rule after creating rulegroups creates duplicate IDs. This problem is not seen if rulegroups are not present.
- **223518**—Using custom CA certificates, when Best effort for Revocation checking method is used, these CLI’s do not get updated to the device.
- **223131**—NSM GUI does not allow creation of a sub-interface on a cluster level when VSD 0 is unset.

W/A: Contact JTAC for a workaround.

- **222554**—While re-installing the management system, the “Refresh” option does not prompt you to change previously configured server parameters.
- **221479**—NSM does not allow changing VSD group for NSRP lite.
- **219858**—VPN monitor displays the cluster member name instead of cluster members.
- **219702**—NSRP Monitor does not show correct information when one of the NSRP peer devices is powered off.

- **216303**—A route created in shared vr of a custom vsys is not available in the routing table of root vsys.
- **215443**—AuditLog viewer does not show the policy changes correctly.
- **212199**—If you update a device and the update is unsuccessful, the Audit Log Viewer “device” value is NULL.
- **210073**—Import of the device fails if keyword “admin” is used in the configuration.
- **209934**—Secondary NSM server is not configured on the IDP Sensor when the device is added to NSM. Sensor disconnects from NSM if primary server fails over to backup.

W/A: Use ACM to specify secondary server for each Sensor.

- **209464**—Invalid reference when trying to delete redundant sub-interface.

7.3 Known Issues in NSMXpress

This section describes known issues with NSMXpress. Whenever possible, a work-around is suggested following the description of the problem. Workaround information starts with “W/A:”.

- **263021**—When installing NSM using HA with Shared Disk, the secondary server must be installed with the following procedure:

1. Initial setup via serial cable, as normal.

2. Immediately after the initial setup and before opening the Web UI or using nsm_setup, run the following command:

```
# sudo rm -rf /usr/netscreen
```

3. Installation can proceed as normal, using either the Web UI or the nsm_setup command-line tool.

- **263006**—When installing NSM using HA with Shared Disk via the Web UI, an internal timeout may prevent all install messages from being displayed. All messages are displayed if NSM is installed using the nsm_setup command-line tool.
- **234330**—Root emails are not forwarded after changing the hostname.

W/A: After changing host name, enter the following command:

```
$ sudo /sbin/service sendmail reload
```

Alternatively you can reboot the system.

- **232842**—More than one static route cannot be added or deleted using nsm_setup script on NSMXpress.

W/A: You can add or delete routes manually.

- **231152**—Hostname configuration on NSM*Xpress* consisting of 4 or more labels set through `nsm_setup` does not get updated in `resolv.conf` and `hosts` files.

W/A: Manually edit the `/etc/hosts` file.

- **225966**—Migration from software only installation to NSM*Xpress* requires removal of `xdb` directory.

W/A: Refer to Section 4, “NSM*Xpress* Data Migration,” on page 10 for steps to migrate NSM data.

7.4 Known Issues in ScreenOS 5.x Affecting NSM

The following are known issue in ScreenOS 5.x that specifically affects this release of NetScreen-Security Manager:

- **220967**—NSM is unable to add a device running ScreenOS 5.4r3 code if telnet is used as the method of initial connection.

W/A: Reboot the device and re-add the device in NSM.

- **197124**—While using NetScreen-Security Manager with DI enabled on an NS-500 device running ScreenOS 5.3, you may experience issues when downloading configurations larger than 1.7MB.
- **195025**—NetScreen-Security Manager reports an error when trying to set link-down an interface on an ISG 2000 device.
- **194320**—When upgrading a device from ScreenOS 5.0r10 and lower to ScreenOS 5.3, devices crash.
- **194266**—Devices running ScreenOS 5.3 may crash when generating Deep Inspection logs.
- **194211**—Wireless interface zone settings on devices running ScreenOS 5.3 are always displayed as “none” in the NetScreen-Security Manager UI.
- **193924**—It is not possible to set the bandwidth on interfaces for a VSYS in ScreenOS 5.3.
- **193654**—If you change the Device Server IP address, devices running ScreenOS 5.3 are not able to connect.

W/A: Perform an “RMA Device” and “Activate Device” workflow to continue managing the device.

- **193175**—You can not nest local user groups in ScreenOS 5.3.
- **192644**—NSRD in transparent mode is not functional in ScreenOS 5.3.
- **185847**—Using NetScreen-Security Manager to upgrade security devices running ScreenOS 5.0.0 over a slow network connection (if the image download takes over 5 minutes), occasionally causes updates to time out.

W/A: In most cases, upgrading to ScreenOS 5.0.0 r10 resolves this issue. Refer to the table below for more information describing resolution of this issue in specific branches of ScreenOS.

- **179994 and 185048**—Devices are not able to save the key used to connect to the NetScreen-Security Manager Device Server. This causes the NSM agent on the security device to have to re-negotiate the key every time the security device restarts. The key re-negotiation process can take up to 15 seconds. One side effect of this issue is that when you restart the Device Server, this will also cause key renegotiation for all other security devices running it manages. This may cause system performance degradation that then affects the management of all security devices.

W/A: In most cases, upgrading to ScreenOS 5.0.0 r10 resolves this issue. Refer to the table below for more information describing resolution of this issue in specific branches of ScreenOS.

- **171897**—It is not possible to create a configlet for a device in transparent mode.
- **174051**—If you use NetScreen-Security Manager to upgrade the firmware on a device from ScreenOS 5.0.0 to ScreenOS 5.1, the security device crashes.

W/A: In most cases, upgrading to ScreenOS 5.0.0 r10 resolves this issue. Refer to the table below for more information describing resolution of this issue in specific branches of ScreenOS.

Table 1 describes specific releases of ScreenOS that resolve the issues referenced above or provides other workaround information.

Table 1: ScreenOS Releases for Specific Issues

Issue	5.0.0	5.0.0 r9 for 5000 M2	5.0.0-GPRS.r8.5	5.0.0 WLAN	5.0.0 r9 for ISG 1000/ISG 2000	5.0.0IDP1
185847	5.0.0 r10	Upgrade the device firmware out-of-band using the CLI or WebUI.	Upgrade the device firmware out-of-band using the CLI or WebUI.	5.0.0 r10	5.0.0 r10	5.0.0IDP1 r2
179994 and 185048	5.0.0 r10	Upgrade the device firmware out-of-band using the CLI or WebUI.	Upgrade the device firmware out-of-band using the CLI or WebUI.	5.0.0 r10	5.0.0 r10	5.0.0IDP1 r2
174051	5.0.0 r10	5.2	5.2	5.0.0 r10	5.0.0 r10	5.0.0IDP1 r2

8 Getting Help

For more assistance with Juniper Networks products, visit:

<http://www.juniper.net/support>

Juniper Networks occasionally provides maintenance releases (updates and upgrades) for ScreenOS firmware. To have access to these releases, you must register your NetScreen device with Juniper Networks at the above web address.

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