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Release Notes for Enterprise Switch Manager Release 5.1.0.0



NORTEL

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New features of Enterprise Switch Manager 5.1

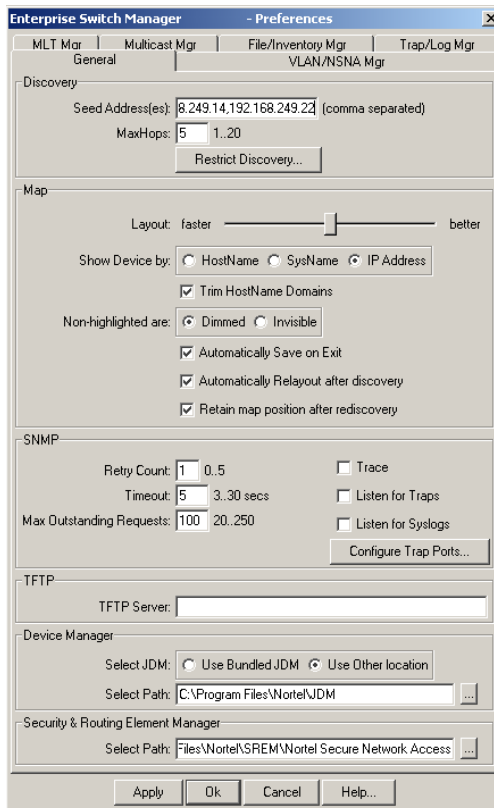
This section summarizes the new features of the Nortel Enterprise Switch Manager (ESM), software release 5.1.0.0.

Ability to access SREM for NSNAS

With ESM 5.1, you can open the Security & Routing Element Manager (SREM) for the Nortel Secure Network Access Switch (NSNAS) by double-clicking the **NSNAS** icon from the topology view. For this action to complete successfully, you must do the following:

- 1 Specify the correct path to the folder containing the SREM software in the updated ESM **Preferences** dialog box (see [Figure 1](#)).

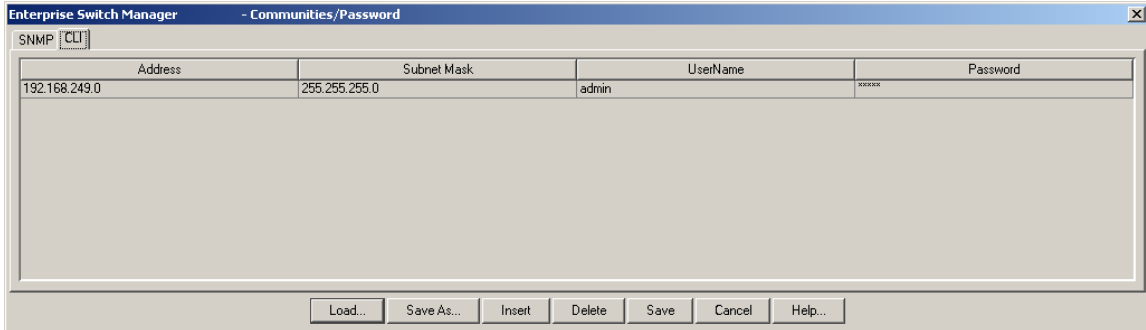
Figure 1 Preferences dialog box



- 2 If the NSNAS CLI user name and password are not the default values (admin/admin), specify the updated user name and password in the **CLI** tab of the new **Communities/Password** dialog box (see [Figure 2](#)).

To access the **Communities/Password** dialog box from the ESM menu bar, choose **Edit > Communities/Password**.

Figure 2 CLI tab



New features of the ESM 5.1 submanagers

This section summarizes the new features for each submanager in ESM 5.1.

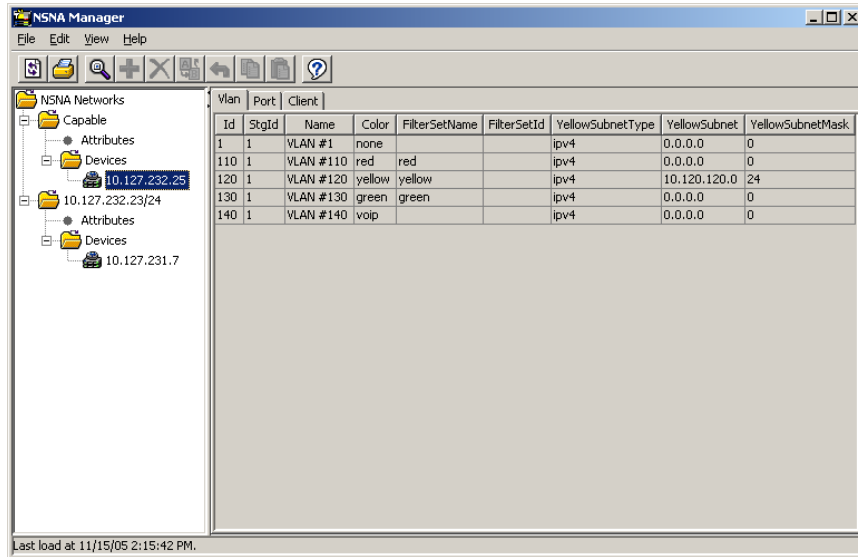
NSNA Manager

NSNA Manager is a new ESM submanager that allows you to configure Notel Secure Network Access (NSNA) features for Ethernet Routing Switch 8300 and Ethernet Routing Switch 55xx devices.

To access NSNA Manager from ESM, click **Tools > NSNA Manager**, or click on the NSNA Manager icon from the toolbar.

The NSNA Manager main window opens. (See [Figure 3](#).)

Figure 3 NSNA Manager main window



NSNA Manager allows you to:

- Configure the NSNAS subnet
- Enable NSNA on a device
- Enable NSNA on ports
- Enter IP Phone Signatures for NSNA
- Display information on NSNA clients
- Display NSNA VLANs

NSNA Manager does not allow you to configure VLAN properties. To configure NSNA VLAN properties, you must use VLAN Manager.

For detailed information about the NSNA solution and deployment scenarios, refer to *Nortel Secure Network Access Solution Guide (320817-A)*. For information about configuring the NSNAS, refer to *Nortel Secure Network Access Switch 4050 User Guide (320818-A)*. For switch-specific configuration information, refer to your switch documentation.

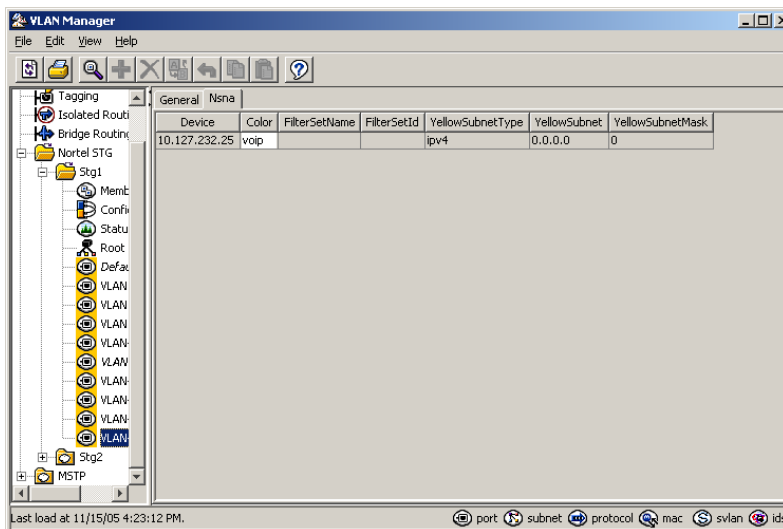
VLAN Manager

With ESM 5.1, the VLAN Manager provides the ability to configure NSNA VLANs for Ethernet Routing Switch 8300 and Ethernet Routing Switch 55xx devices.

To access the Nsna tab in VLAN Manager, select a VLAN, and click the **Nsna** tab.

The Nsna tab opens (see [Figure 4](#)).

Figure 4 VLAN Manager - Nsna tab



File and Inventory Manager

With ESM 5.1, the File and Inventory Manager now provides an Upgrade Wizard for upgrading Ethernet Routing Switch 8000 Series devices (Figure 5).

Figure 5 Upgrade Wizard

File/Inventory Manager - Auto Upgrade Wizard

Config BackUp Saves a copy of the configuration file to a specified location

Configuration files: boot.cfg config.cfg

BackUp files in: flash TFTP Server

TFTP Server:

In FLASH Save Bootconfig As: ESM_AutoImageUpgrade_boot.cfg

In FLASH Save Config As: ESM_AutoImageUpgrade_config.cfg

Image Options Saves the primary runtime image and boots the device

CLI UserName:

CLI Password:

Show image files in: flash PCMCIA TFTP Server

TFTP Server:

Device	Primary Image	Boot Image	Did Image
10.227.231.3			
10.227.231.2			
10.227.231.15			

Apply Reset Cancel Help...

To access the Upgrade Wizard in File/Inventory Manager, choose **Actions > Upgrade Wizard** from the menu bar or click the **Device Upgrade Wizard** icon from the toolbar.

The Upgrade Wizard allows you to perform the following:

- back up your current configuration files
- set the primary runtime image from flash, PCMCIA, or TFTP
- set the boot image from flash, PCMCIA, or TFTP

- set the loadable image from flash or PCMCIA (required for ERS 8300 I/O module and ERS 8600 R-module only)
- boot the device with the specified images



Note: Before you initiate the Upgrade Wizard, you must load the desired primary runtime image file and the boot image file to either flash, PCMCIA, or TFTP server, and load the loadable image file (required for ERS 8300 I/O module and ERS 8600 R-module only) to either flash or PCMCIA. Otherwise, the upgrade cannot function properly.



Note: For Dual CPU auto image upgrades, due to the different boot times for Ethernet Routing Switch 8300 and Ethernet Routing Switch 8600, you must wait four minutes (ERS 8300) and 2 minutes (ERS 8600) respectively after the upgrade before performing any configurations, to ensure the switch has fully completed the boot process.



Note: The Upgrade Wizard does not support upgrades for the Ethernet Routing Switch 8300 Release 2.0.0.1 software because the switch requires a pre-boot file (p83f2300.img) in order to be handled in boot monitor mode.

Compatibility

This section lists operating systems, hardware, and software that are compatible with ESM 5.1.

Operating system compatibility

[Table 1](#) contains the list of operating systems that are compatible with ESM 5.1.

Table 1 ESM 5.1.0.0 compatibility matrix for operating systems

Operating system	Version	File type
Windows	95, 98, NT, 2000, XP, 2003	esm_5100.exe
Linux	Kernel version 2.2 and above	esm_5100_linux.sh
Sun Solaris/SunOS	2.7, 2.8, 2.9/5.7, 5.8, 5.9	esm_5100_solaris.sh



Note: This release of ESM bundles Java Runtime Environment (JRE) 1.4.2_06. With Solaris installations, OS patches are required to support the bundled JRE.

Supported devices and software versions

[Table 2](#) lists the devices and software versions that ESM 5.1 currently supports.

Table 2 Supported platforms and software releases

Platform	Software release
Ethernet Routing Switch 8600, including the following new hardware: 8681XLW module, 8681XLR module, 8616GTE module, 8672ATME MDA, 8608GBM module, 8608GTM module, 8632TXM module, 8648TXM module, 8672ATMM module, 8683POSM module.	3.0, 3.0.x, 3.1.x, 3.2.0, 3.2.0.2, 3.2.1.0, 3.2.2 (OSM 2.0), 3.3 (OSM 3.0), 3.5, 3.7 (OSM 4.0) 4.0 (ESM 5.0)
Ethernet Routing Switch 8600 Web Switching Module	WebOS 9.x (OSM 2.0), 10.0.x (OSM 3.0)

Table 2 Supported platforms and software releases (continued)

Platform	Software release
Ethernet Routing Switch 8100	2.0, 2.0.1.1, 3.1.x, 3.2.0, 3.2.0.2, 3.2.1.0, 3.2.2 (OSM 2.0), 3.3 (OSM 3.0)
Ethernet Routing Switch 8300	2.0 (OSM 4.0) 2.1, 2.2 (ESM 5.0), 2.2.8, 2.3 (ESM 5.1)
Passport 1050/1150/1200/1250	2.0.5.6, 2.0.5.7, 2.0.7.2, 2.0.7.3, 2.0.7.4, 2.1.0, 2.1.3 (OSM 2.0, OSM 3.0)
Ethernet Routing Switch 1424T	2.1 (OSM 3.0)
Ethernet Routing Switch 1612G, 1624G, 1648T	1.0 (OSM 3.0), 1.1 (OSM 4.0) 1.2 (ESM 5.0)
BayStack 350/410/450	3.0, 3.1, 4.0, 4.1 (OSM 2.0), 4.2, 4.3, 4.4 (OSM 3.0)
Business Policy Switch 2000	1.0 (OSM 1.0), 1.0.1, 1.1, 1.2, 2.x (OSM 2.0), 3.0 (OSM 3.0), 3.1 (OSM 4.0)
BayStack 380-24 T	2.0 (OSM 3.0), 3.0 (OSM 4.0)
BayStack 380-24 F	2.1.0 (OSM 3.0), 3.0 (OSM 4.0)
BayStack 420	1.0 (OSM 1.0), 1.0.2, 1.1 (OSM 2.0), 1.1.1, 1.1.2, 1.1.3 (OSM 3.0), 3.0 (OSM 4.0), 3.1 (OSM 4.1)
Ethernet Switch 460	2.3, 3.0 (OSM 3.0), 3.1 (OSM 4.0), 3.5 (OSM 4.1), 3.6 (ESM 5.0)
Ethernet Switch 470-24 T	3.0 (OSM 3.0), 3.0 (OSM 4.0), 3.1 (OSM 4.0), 3.5 (OSM 4.1), 3.6 (ESM 5.0)
Ethernet Switch 470-48 T	2.1.0 (only standalone supported); 2.2.0, 2.2.1 (stack also supported), 3.0, 3.0 (OSM 4.0), 3.1 (OSM 4.0), 3.5 (OSM 4.1), 3.6 (ESM 5.0)
Ethernet Switch 425-24T	2.0, 3.0 (OSM 3.0), 3.0 (OSM 4.0), 3.1 (OSM 4.0), 3.5 (ESM 5.0), 3.6 (ESM 5.1)
Ethernet Switch 425-48T	3.1 (OSM 4.0), 3.5 (ESM 5.0), 3.6 (ESM 5.1)
Ethernet Routing Switch 5510, 5520	3.0, 3.0.0.1 (OSM 3.0), 3.0 (OSM 4.0), 4.0 (OSM 4.0), 4.1 (OSM 4.1), 4.2 (ESM 5.0), 4.3 (ESM 5.1)
Ethernet Routing Switch 5530	4.2 (ESM 5.0), 4.3 (ESM 5.1)
Ethernet Routing Switch 3510	4.0 (ESM 5.0)
OPTera Metro 1200/1400/1450	1.0, 1.2 (OSM 3.0), 1.3 (OSM 4.0)
Alteon 2208, 2216, 2224, 2424, 2424 SSL, 3408, 3416	AOS 21.0
WLAN AP	1.3 (OSM 4.0)

Upgrading and downgrading ESM on your system

This section lists step-by-step instructions on how to upgrade to ESM 5.1 and how to downgrade to previous versions of the software.

Upgrading to ESM 5.1

To upgrade to ESM, software release 5.1.0.0, complete the following steps.

- 1 Install ESM 5.1.0.0 in a separate directory.
- 2 Launch ESM 5.1.0.0.
- 3 To migrate existing scheduled tasks from previous software versions of ESM (3.0, 4.0, 4.1, 5.0), use the Scheduled Tasks Upgrade Utility feature (**File > Upgrade**).

Note: To ensure that scheduled tasks have migrated successfully, open and test ESM 5.1.0.0.

- 4 Uninstall previous versions of ESM (3.0, 4.0, 4.1,5.0).

Downgrading from ESM, software release 5.1.0.0

To downgrade from ESM 5.1.0.0 to a previous version, complete the following steps:

- 1 Uninstall ESM 5.1.0.0.
- 2 Create a new directory.
- 3 Install the previous version (5.0) of ESM.

Understanding the issues in ESM 5.1.0.0

This section describes the known issues and resolved issues in ESM 5.1.

Known issues in ESM 5.1

The following are the know issues specific to ESM 5.1.

VLAN Manager and MLT Manager

- In VLAN Manager, applying changes to source MAC address-based VLANs can produce a null pointer exception error. And in MLT Manager, adding multiple SSMLTs to a device can also produce a null pointer exception error (Q01223326).
- In VLAN Manager, creating a protocol-based VLAN can produce an intermittent null pointer exception error (Q01236482).
- In VLAN Manger, deleting a port-based VLAN can produce a null pointer exception error (Q01277255).

Security Manager

- Security Manager does not allow users to update existing IP addresses. This limitation affects the configuration of Radius servers and access policies for security groups (Q01255307).

Upgrade Wizard

- With ESM 5.1, you cannot upgrade an ERS 8300 switch using the Auto Upgrade Wizard if the device is in NNCLI mode. You can only use Auto Upgrade Wizard if the device is in the CLI mode (Q01267923).

Outstanding issues from ESM 5.0

The following issues are outstanding from ESM 5.0 and are also applicable to ESM 5.1.

File/Inventory Manager

- With ESM 5.0, backing up configuration files on Ethernet Switch 470-24T, Release 3.5, fails intermittently. This can occur without any error being produced. The ESM GUI may report that the backup is complete:

```
Done. Please see log or log file for summary report.
```

You must check the fileInventoryMgr.log file, to view the failure. If you do not verify the fileInventoryMgr.log file before uploading this configuration file to a device, then the upload may fail (Q01247755).

This problem does not arise with Ethernet Switch 470 Release 3.6 software.

Topology Manager

- ESM cannot discover more than 700 nodes across different subnets and seeds (Q01256442).
- Discovered network may show an extra hub between directly connected devices (Q01194082).
- When BS380 is used as a seed device, ESM may not display all devices in the topology (Q01120787).
- When ESM discovers two separate subnets, the topology map may overlap the display of the two subnets (Q01128155).
- Currently, ESM topology files (.topo) can only be recognized within the same software version. For example, .topo files created in Release 4.1 can only be opened by OSM 4.1, and .topo files created in Release 5.0 can only be opened by ESM 5.0 (Q00955340).

VLAN Manager

- For VLAN Manager, you will be unable to add or delete untagged ports to VLAN for 16xx-1424 (Q00966591).

Note: This issue will be removed in version 2.0 of the 1600 software release. No update will be needed for ESM.

- For Ethernet Switch devices, STG priority must be a multiple of 4096. If a number other than a multiple of 4096 is entered in the STG priority field, the switch rounds the value down to the nearest multiple of 4096. No warning message is provided (Q01140840).

MLT Manager

- LACP configuration is not supported (Q01165408).

Security Manager

- ESM 5.0 SSH function may not work correctly with ERS 8000 software versions 3.7.7 to 3.7.9. This is due to ERS 8000 device issues that have been resolved in 3.7.10 (Q01169759).

Resolved issues in ESM 5.1

The following issues have been resolved in ESM 5.1.

Trap/Log Manager

- For ERS 8000 devices, the **Target Address Table** now displays **MMS** and **Mask** fields when you access the devices using SNMPv3. Also, the **timeout** and **retry** fields now display default values (Q01173299).

VLAN Manager

- When displaying tagged port information in the **Tagging** ports table, extra VLANs no longer appear in the **VlanIds** column (Q00959184).
- In the **Tagging** ports table, you can now set the VLAN tagging mode to **trunk** (tag all), **untagPvidOnly**, or **tagPvidOnly** for Ethernet Routing Switch 55xx, Ethernet Switch 460/470, and BPS 2000 (Q00854330).

Topology Manager

- If you set the ESM display in the **Preferences** dialog box to **by SysName** and then change a device's name to a longer string, the longer name does not extend beyond the borders of the name text box after rediscovery (Q01196081).

Related publications

For additional information about the features in Enterprise Switch Manager 5.1, refer to the following publications:

- *Using Enterprise Switch Manager, release 5.1.0.0 (208963-G)*
- *Configuring and Managing Security for Nortel Ethernet Routing Switch 5500 Series, release 4.2 (217463-B)*
- *Release Notes for Nortel Ethernet Routing Switch 5500, release 4.3 (217468-B)*
- *Configuring and Managing Security using NNCLI and CLI for the Ethernet Routing Switch 8300, release 2.2 (316804-C)*
- *Configuring and Managing Security using Device Manager for the Ethernet Routing Switch 8300, release 2.2 (317346-C)*
- *Release Notes for the Ethernet Routing Switch 8300, release 2.2.8 (316811-E)*
- *Configuring IP Routing Protocols for Nortel Ethernet Routing Switch 5500 Series, Software Release 4.2 (217465-A)*
- *Configuring and Managing Security for Nortel Ethernet Routing Switch 5500 Series, Software Release 4.2 (217463-A)*
- *Configuring VLANs, Spanning Tree, and Multilink Trunking for Nortel Ethernet Routing Switch 5500 Series, Software Release 4.2 (217464-A)*
- *Configuring and Managing Security: Nortel Ethernet Switches 460 and 470 Software Release 3.6 (217104-A)*
- *Configuring VLANs, Spanning Tree, and MultiLink Trunking: Nortel Ethernet Switches 460 and 470 Software Release 3.6 (217460-A)*
- *Reference for the BayStack 350/410/450 Management Software Operations Version 5.0 (210245-C)*
- *Networking Concepts for the Passport 1000 Series Switch (205588-B)*
- *Reference for the Passport 1000 Series Management Software Switching Operations, Release 2.1 (211192-A)*
- *Reference for the Passport 1000 Series Management Software Routing Operations, Release 2.1 (211193-A)*

How to get help

This section explains how to get help for Nortel products and services.

Getting Help from the Nortel web site

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www.nortel.com/support

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- download software, documentation, and product bulletins
- search the Technical Support web site and the Nortel Knowledge Base for answers to technical issues
- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

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If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller.

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In North America, call 1-800-4NORTEL (1-800-466-7835).

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