



Enterprise Switch Manager (ESM)

Release Notes for Enterprise Switch Manager

ATTENTION

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Release Notes for Enterprise Switch Manager Release 6.0

New features of Enterprise Switch Manager 6.0

This section summarizes the new features of the Nortel Enterprise Switch Manager (ESM), software release 6.0.

Topology Manager

The following sections describe the new Topology Manager features:

Support for IEEE 802.1ab

Topology Manager now supports the discovery of devices using IEEE 802.1ab, Station and Media Access Control Connectivity Protocol (also known as Link Layer Discovery Protocol [LLDP]). Topology manager now uses both IEEE 802.1ab and the Bay Networks Auto-Topology Discovery Protocol to discover devices on a network.

With 802.1ab support, ESM is no longer restricted to the discovery of Nortel devices: it can discover any 802.1ab-enabled devices on the network, including third-party switches, routers, and IP Phones. ESM can also display MED devices in the network.

The following are the Nortel devices which currently support 802.1ab:

- Ethernet Routing Switch 5500 Release 5.0
- Ethernet Routing Switch 8300 Release 3.0
- Ethernet Switch 325/425 Release 3.6
- All Nortel IP Phones

Additional Topology Manager features

Topology Manager also provides the following new features:

- Enhanced capability to zoom in on the topology map with increased granularity using the Zoom In and Zoom Out toolbar buttons.
- Ability to obtain a view of the zoomed-in area in relation to the larger topology map using the Navigator (**View > Navigator**).

- Ability to undo and redo node movements in the topology map using the Previous Transform and Next Transform toolbar buttons.
- Ability to view mismatched links (**View > Link Mismatch**)
- Ability to update task files without specifying the tm.jar file version (**File > Upgrade**)
- Ability to configure additional interface preferences, (**Edit > Preferences > Others**), including:
 - e-mail server properties
 - the color of the Topology Manager background and link mismatches
 - default configuration file editor for File/Inventory Manager
 - ring tone preference during ESM launch

User Manager

User Manager is a new ESM submanager that allows you to manage user profiles for access to ESM. You can set read and write permissions and specify passwords for multiple users. Users, in turn, can create their own topologies to manage and configure their own personal preferences related to ESM and its submanagers.

Administrators can view and modify any user settings. Non-administrator users are only allowed to view and modify their own user information.

To access User Manager, click **Tools > User Manager** or click on the User Manager toolbar icon.

Routing Manager

Routing Manager is a new ESM submanager that allows you to configure routing parameters for devices across a network discovered by ESM. With Routing Manager, you can create, delete, or modify routes across multiple devices. Routing Manager supports the following protocols:

- IP
- RIP
- OSPF
- VRRP
- IPv6
- IPv6 OSPF

To access Routing Manager, click **Tools > Routing Manager** or click on the Routing Manager toolbar icon.

VLAN Manager

New features of the VLAN Manager include the following:

- Ability to modify STG membership on Ethernet Switch 460/470
- MSTP and RSTP support for Ethernet Routing Switch 8600 and Ethernet Routing Switch 5500
- Support for enabling and disabling OSPF on a VLAN
- Support for inserting VRRP routing interfaces on a VLAN

File and Inventory Manager

New features of the File and Inventory Manager include the following:

- Auto Upgrade Wizard support for upgrading devices that are in NNCLI mode
- Ability to specify the default editor used for viewing and editing configuration files (**Edit > Preferences > Others**)
- Ability to compare a saved configuration with the current runtime configuration (**Actions > Compare Runtime Config with Existing Config**)
- Ability to archive a configuration file only if it has changed from the last saved file (using the **Archive Changed Config Only** option)
- In Smart Diff, the ability to navigate the Show and Compare report using forward and backward jump buttons

Trap and Log Manager

New features in the Trap and Log Manager include the following:

- Support for notifications related to traps/events received (**Edit > Trap Preferences**)
- Ability to parse traps using the Trap Parser (**Tools > Trap Parser and Tools > Select Trap Parser**)
- Support for enabling trap acknowledgement (**Edit > Acknowledge Traps**)

Management Information Base (MIB) Browser

MIB Browser provides support for AES.

Compatibility

This section lists operating systems, hardware, and software that are compatible with ESM 6.0.

Operating system compatibility

Table 1 "ESM 6.0 compatibility matrix for operating systems" (page 10) contains the list of operating systems that are compatible with ESM 6.0.

Table 1
ESM 6.0 compatibility matrix for operating systems

Operating system	Version	File type
Windows	98 (Second Edition), 2000 (Professional), XP, and 2003	esm_6000.exe
Linux	Kernel version 2.2 and above	esm_6000_linux.sh
Sun Solaris/SunOS	2.8, 2.9, 2.10/5.8, 5.9, 5.10	esm_6000_solaris.sh

Supported devices and software versions

Table 2 "Supported platforms and software releases" (page 10) lists the devices and software versions that ESM 6.0 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) 4.1 (ESM 6.0)
Ethernet Routing Switch 8600 Web Switching Module	WebOS 9.x (OSM 2.0), 10.0.x (OSM 3.0)
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) 3.0 (ESM 6.0)

Platform	Software release
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) 2.1 (ESM 6.0)
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) 5.0 (ESM 6.0)
Ethernet Routing Switch 5530	4.2 (ESM 5.0), 4.3 (ESM 5.1) 5.0 (ESM 6.0)
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	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 6.0 and how to downgrade to previous versions of the software.

Upgrading to ESM 6.0

To upgrade to ESM, software release 6.0, complete the following steps.

Step	Action
1	Install ESM 6.0 in a separate directory.
2	Launch ESM 6.0.
3	To migrate existing scheduled tasks from previous software versions of ESM (4.0, 4.1, 5.0, 5.1), use the Scheduled Tasks Upgrade Utility feature (File > Upgrade). Note: To ensure that scheduled tasks have migrated successfully, open and test ESM 6.0.
4	Uninstall previous versions of ESM (4.0, 4.1, 5.0, 5.1).

—End—

Downgrading from ESM 6.0

To downgrade from ESM 6.0 to a previous version, complete the following steps:

Step	Action
1	Uninstall ESM 6.0.
2	Create a new directory.
3	Install the previous version (5.1) of ESM.

—End—

Understanding the issues in ESM 6.0

This section describes the known issues and resolved issues in 6.0.

Known issues in ESM 6.0

The following are the known issues specific to ESM 6.0.

User Manager

- In User Manager, under the **Preferences** tab, the **Email Preference/Reporting Email address** field is not currently used and is reserved for future use. (Q01471569)
- Users configured in User Manager with read-only permissions may have access to editable fields in Multicast Manager; specifically under **IGMP > Snoop > 1424T > Snoop Control** tab (Q01492384).
- Users configured in User Manager with read-only permissions may have access to editable fields in Routing Manager; specifically, under **IPv4 Networks > RIP > Interfaces > Interfaces Advance** tab. (Q01493522)

Topology Manager

- After you display the full screen (by either clicking **View > Full Screen** or pressing F12), pressing F12 again may not switch the view back to the standard screen. To revert to the standard view, you must first click on the full screen and then press F12. (Q01396406)
- Choosing **Actions > Finding Unsaved Configurations** does not find unsaved configurations on the Ethernet Routing Switch 1600 (Q01493506).
- When running ESM on SUSE Linux, the online help files are inaccessible. (Q01490331)
- If you hide a device in one .topo file (for example, topologyA.topo), and then open another .topo file (for example topologyB.topo), ESM does not prompt you to save the first file (topologyA.topo). As a result, the next time you open topologyA.topo, the device is not hidden from the topology. To save the hidden device view, you must manually save the topology file. (Q01490281)
- Under **Edit > Preferences**, if you choose Non-highlighted are **Invisible**, and then rediscover the topology map, all devices and/or links may disappear. To refresh the topology, you must set the option to Non-highlighted are **Dimmed**. (Q01473424)
- After you save a .topo file (for example "restrict.topo") for a topology discovered using the Restrict Discovery option, if you open a different .topo file and then re-open the original "restrict.topo" and rediscover the network, this results in an "Invalid Seeds" error. (Q01496535)

Routing Manager

- ARP entries cannot be added for Ethernet Routing Switch 8600 release 4.1. (Q01457972)

- With Ethernet Routing Switch 8600 Release 4.1, under **IPv4 Networks > OSPF > Interfaces**, you cannot add a brouter port as an interface entry. An error is displayed. (Q01458889)
- With Ethernet Routing Switch 8300 Release 3.0, and Ethernet Routing Switch 5510 Release 5.0, under **IPv4 Networks > OSPF > Interfaces**, you cannot change the **Type** property from **Broadcast** to **Passive**. An error is displayed. (Q01494730)
- With Ethernet Routing Switch 8300 Release 3.0, and Ethernet Routing Switch 8600 Release 3.7/4.1, you cannot delete VRRP entries displayed under **IPv4 Networks > VRRP > Interfaces**. (Q01488332)

File/Inventory Manager

- File/Inventory Manager does not support Ethernet Routing Switch 1600 Release 2.1 devices. (Q01490339).

VLAN Manager

- When configuring an existing VLAN in VLAN Manager, if you try to assign an IP address or subnet mask that is not formatted correctly (for example, 0.0.0.0), the field changes to the default IP address (0.0.0.0) or subnet mask (255.0.0.0). However, if you click Apply Changes to accept the new default value, a "java.lang.string" error appears. (Q01490413)

Outstanding issues from ESM 5.1

The following issues are outstanding from ESM 5.1 and are also applicable to ESM 6.0.

File/Inventory Manager

- When scheduling firmware upgrades for a list of devices, if one device in the list fails the upgrade, then the process is halted, and none of the remaining upgrades are attempted. (Q01495687)

Outstanding issues from ESM 5.0

The following issues are outstanding from ESM 5.0 and are also applicable to ESM 6.0.

Topology Manager

- 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).

VLAN Manager

- 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 in ESM.(Q01165408).

Resolved issues in ESM 6.0

Topology Manager

- ESM is no longer limited to 700 nodes across different subnets and seeds (Q01256442).
- When ESM discovers two separate subnets, the topology map no longer overlaps the display of the two subnets (Q01128155).
- ESM topology files (.topo) from previous releases of ESM can now be recognized by later ESM versions. For example, .topo files created in Release 5.1 can now be opened by ESM 6.0 (Q00955340).

VLAN Manager and MLT Manager

- In VLAN Manager, applying changes to source MAC address-based VLANs no longer produces a null pointer exception error. And in MLT Manager, adding multiple SSMLTs to a device no longer produces a null pointer exception error (Q01223326).
- In VLAN Manager, deleting a port-based VLAN no longer produces a null pointer exception error (Q01277255).
- In VLAN Manager, creating a protocol-based VLAN no longer produces an intermittent null pointer exception error (Q01236482).

Security Manager

- Security Manager now allows users to update existing IP addresses. This affects the configuration of Radius servers and access policies for security groups (Q01255307).

Upgrade Wizard

- With ESM 6.0, you can now upgrade an ERS 8300 switch using the Auto Upgrade Wizard when the device is in NNCLI mode. (Q01267923).

File/Inventory Manager

- With ESM 6.0, backing up configuration files on Ethernet Switch 470-24T, Release 3.5, no longer fails intermittently. (Q01247755)

Related publications

For additional information about the features in *Enterprise Switch Manager 6.0*, refer to the following publications:

- *Using Enterprise Switch Manager* (NN47300-100)
- *Installing Enterprise Switch Manager* (NN47300-300)
- *Configuring and Managing Security: Ethernet Routing Switch 8600 Software Release 4.1* (314724-E)
- *Configuring VLANs, Spanning Tree, and Link Aggregation: Ethernet Routing Switch 8600 Software Release 4.1* (314725-E)
- *Configuring Network Management: Ethernet Routing Switch 8600 Software Release 4.1* (314723-E)
- *Nortel Ethernet Routing Switch 8300 Configuration — Security using Device Manager* (NN46200-508)
- *Nortel Ethernet Routing Switch 8300 Configuration — VLANs, Spanning Tree, and Static Link Aggregation using the Device Manager* (NN46200-510)
- *Nortel Ethernet Routing Switch 8300 Configuration — IP Routing and Multicast Operations using Device Manager* (NN46200-505)
- *Nortel Ethernet Routing Switch 5500 Series Configuration — IP Routing Protocols* (NN47200-503)
- *Nortel Ethernet Routing Switch 5500 Series Security — Configuration* (NN47200-501)
- *Nortel Ethernet Routing Switch 5500 Series Configuration — VLANs, Spanning Tree, and MultiLink Trunking* (NN47200-502)
- *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

The best way to get technical support for Nortel products is from the Nortel Technical Support web site:

www.nortel.com/support

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. More specifically, the site enables you to:

- download software, documentation, and product bulletins
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- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

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In North America, call 1-800-4NORTEL (1-800-466-7865).

Outside North America, go to the following web site to obtain the phone number for your region:

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An Express Routing Code (ERC) is available for many Nortel products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate the ERC for your product or service, go to:

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Enterprise Switch Manager (ESM)

Release Notes for Enterprise Switch Manager

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