



Enterprise Switch Manager (ESM)

# Release Notes for Enterprise Switch Manager Software Release 6.1

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# Release Notes for Enterprise Switch Manager Release 6.1

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## New features of Enterprise Switch Manager 6.1

This section summarizes the new features of the Nortel Enterprise Switch Manager (ESM), software release 6.1.

### Topology Manager

The following section summarizes the new Topology Manager features:

#### ADAC

The goal of this feature is to provide the voice VLAN ID to the Nortel IP phone, not the phone to get the voice VLAN ID through a complex double DHCP process. ADAC provides this information through a MAC list definition as done in L2 family. . This is a complex process because the MAC addresses need to be well known. If any of the well known MAC addresses change (For example, through a third party vendor), the customer has to re-configure the MAC.

It is easy to spoof the MAC addresses, so it is more secure to think about 802.1ab to exchange this information-spoofing 802.1ab messages as it is a bit more complex (necessity to develop a 802.1ab stack). ADAC enables the switch to statically define a voice VLAN ID on a per port basis and sends this voice VLAN ID through the 802.1ab TLVs.

#### Additional Topology Manager features

Topology Manager also provides the following new features:

- Displays all host MAC addresses that is learn on each switch port.
- Enhancement in 802.1ab discovery.

### User Manager

User Manager provides the following features:

- ESM allows login through RADIUS (Remote Authentication Dial-In User Service) client. RADIUS client performs Authentication, Authorization, and Accounting (AAA) operations.

- Audit trail allows you to:
  - Track an individuals action.
  - Reconstruct events after a problem has occurred.
  - Monitor problems using online tools.

### Trap/Log Manager

SNMP Trap Collector and Forwarder allows you to send traps to the centralized management and alerts the server.

### Additional feature enhancements

The additional enhancement in ESM 6.1 includes the following features:

- ESM launches JDM using SNMPv3 securely.
- Nortel part numbers for Gbics appear.
- SysName is appended to the configuration file name.
- ACCO enhancement handles BayStack and PP16xx devices correctly.
- FIM ACCO enhancement.

If timeout occurs, ACCO feature uses synchronized call with potential deadlock.

- ESM 6.1 does not claim Windows Vista support.
- Supports Ethernet Routing Switch 2500 and Ethernet Routing Switch 4500 series.

## Compatibility

This section lists operating systems, hardware, and software that are compatible with ESM 6.1.

### Operating system compatibility

[Table 1 "ESM 6.1 compatibility matrix for operating systems" \(page 8\)](#) contains the list of operating systems that are compatible with ESM 6.1.

**Table 1**  
**ESM 6.1 compatibility matrix for operating systems**

Operating system	Version	File type
Windows	2000 (Professional), XP, and 2003	esm_6100.exe
Linux	Kernel version 2.2 and above	esm_6100_linux.sh
Sun Solaris/SunOS	2.8, 2.9, 2.10/5.8, 5.9, 5.10	esm_6100_solaris.sh



Enterprise Switch Manager bundles the Java Runtime Environment (JRE) version 1.6. Operating system patches are required for installing the JRE for some Solaris/SunOS releases.

JRE 1.6 does not provide support for Windows 98 and Windows ME. ESM 6.1 does not claim support on Windows 98 and Windows ME.

## Supported devices and software versions

Table 2 "Supported platforms and software releases" (page 9) lists the devices and software versions that ESM 6.1 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) 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)
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)

Platform	Software release
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(OSM4.0), 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)
Ethernet Routing Switch 4548GT, 4548GT_PWR, 4550T, 4550T_PWR, 4526FX	5.0 (ESM 6.1)
Ethernet Routing Switch 2526T, 2526T-PWR, 2550T, 2550T-PWR	4.0 (ESM 6.1)

## Upgrading and downgrading ESM on your system

This section lists step-by-step instructions on how to upgrade to ESM 6.1 and how to downgrade to previous versions of the software.

### Upgrading to ESM 6.1

To upgrade to ESM, software release 6.1 , complete the following steps.

Step	Action
1	Install ESM 6.1 in a separate directory.
2	Launch ESM 6.1.
3	To migrate existing scheduled tasks from previous software versions of ESM (4.0, 4.1, 5.0, 5.1, 6.0, 6.0.1), use the Scheduled Tasks Upgrade Utility feature ( <b>File &gt; Upgrade</b> ).  <b>Note:</b> To ensure that scheduled tasks have migrated successfully, open and test ESM 6.1.
4	Uninstall previous versions of ESM (4.0, 4.1, 5.0, 5.1, 6.0, 6.0.1).
—End—	

### Downgrading from ESM 6.1

To downgrade from ESM 6.1 to a previous version, complete the following steps:

Step	Action
1	Uninstall ESM 6.1.
2	Create a new directory.
3	Install the previous version (6.0.1) of ESM.
—End—	

## Known and resolved issues in ESM 6.1

This section describes the known issues and resolved issues in 6.1.

### Known issues in ESM 6.1

The following are the known issues specific to ESM 6.1.

#### Topology Manager

- Hiding and un hiding the IPv6 enable switch causes switch instability. During this instance the IPv6 device cannot be accessed and it is shown without a device label in the map. (Q01505368)
- After applying SNMPv3 configuration to Ethernet Routing Switch 1600 Release 2.1.1.0, the device symbol does not turn to SNMPv3 device symbol. (Q01664990)

#### VLAN Manager

- If you delete an MSTI in VLAN Manager, the MSTI and all associated VLANs are deleted on the affected switches. You can reload VLAN Manager to display that the MSTI and VLANs are deleted. (Q01510725)
- When port members are moved from one MSTI to another it is not properly updated and the port members appear under both the MSTIs. (Q01589585)
- When port members are moved from one VLAN to another, under RSTP it is not properly updated and the port members appear under both the VLANs. (Q01589588)
- If wrong input is given while inserting or updating the tagged ports, error message (-1) pops up. (Q01612289)

#### MLT Manager

- **Edit > Preferences** option is not working for SMLT network. The entire devices that were available before setting the preference still appears. (Q01645743)

#### Security Manager

- Access Policies configured for Telnet, http, rlogin, FTP, SSH, and TFTP are not being applied to the devices in the security group. (Q01513956)
- Under **Password > CLI**, in the CLI Access table `2a:2a:2a:2a:2a:2a:00` appears instead of `*` in the RWA/RW/RWL3/RWL2/RWL1/RO Username and Password fields. (Q01645857)

## File/Inventory Manager

- Auto image upgrade is not supported for Ethernet Routing Switch 1600 Series for upgrades to Release 2.1 software. (Q01500759)
- The Device Upgrade feature does not work for PP16xx device family. (Q01653051)
- Under **Actions**, **Compare Runtime Config With Existing Config** does not work for PP8600 software version 3.7.12.0 devices. (Q01715056)

## Routing Manager

- **Highlight Topology** option is not working under VRRP. The selected device does not display under the Topology Manager. (Q01638074)
- Under **OSPF > Interfaces**, the Interfaces Advance table displays the MGMT IP address for ERS 8300 device. (Q01649645)
- Under **Edit > BRouter Ports**, if the same VRRP value is inserted for ERS 8600 the Routing Manager hangs. (Q01652368)
- Under **Edit > BRouter Ports**, insert more than one VRRP value for ERS 8600. These multiple entries do not get displayed under **BrouterPorts > VRRP**. But if only one entry is inserted, it gets displayed. (Q01652090)
- Under **IPV6 Networks > IPV6 Routing > Interfaces**, deleting and then adding a row for any device causes NullPointerException in the interface. (Q01672917).

## Resolved issues in ESM 6.1

### Topology Manager

- After zooming in the topology map move the scroll bar to the right most corners and then zoom out, the topology map is displayed correctly. Under the same condition if the map is rediscovered, the devices are displayed correctly. (Q01449641)
- While discovering a map if the discovery times-out and process stops, the cursor reverts back. (Q01459314)
- Telnet option on IP Phone is not available. (Q01461184)
- Under **Edit > Preferences**, enabling **Manage by Sub-Network** option accepts the IPv6 address. (Q01455671)
- In topology map, clicking on **Previous Transform** and then **Next Transform** more than once displays the next transformation without error. (Q01496560)
- The device property displays correctly after hiding and unhiding the device. (Q01496560)

- After applying the **Layout Map** option, ports appear correctly. (Q01435588)
- After modifying Sub-Manager if you exit, a warning message appears. (Q01435468)
- Save the topo file after **Restrict Discovery**. Open default.topo and then open restrict discovery topo, the restrict discovery topo file opens without error. (Q01490443)
- ESM 6.1 does not allow two instances of ESM. (Q01490443)
- In Dump Topology, **Log** option on inactive devices now takes minimum time to complete. (Q01471564)
- Multiple instances of Device Managers can be opened with ESM 6.1. (Q01193557)

### File/Inventory Manager

- The File/Inventory Manager maintains a check on the length of the filenames entered for scheduled tasks, log files, and image files. (Q01393672)
- The GBIC information is now available. (Q01392228)

### Scheduler

- Scheduler displays the scheduled tasks even after you log off and then login to Windows. (Q01458410)

### Multilink Trunk Manager

- In **Insert MLT** window, the MLT ID range displays correctly for ERS 1600. (Q01495558)
- In **Insert MLT** window, the SMLT ID range displays correctly for ERS 8600. (Q01495560)

### Routing Manager

- Under **IPv6 ROUTING > Interfaces**, **Insert Interface** dialog generates VLAN IDs automatically. (Q01457658)
- Under **IPv4 > OSPF**, you can add Brouter Interface entry. (Q01458889)
- Routing Manager supports Passport 16xx device. (Q01490320).
- You can create a VRRP entry through VLAN Manager and then delete the entry in Routing Manager. (Q01488332)
- Under **IP ROUTING > ARP**, port option is available for ARP entry. (Q01428529)

- Under **OSPF > Interfaces**, NBMA column does not display. (Q01494771)
- With Ethernet Routing Switch 8300 Release 3.0, and Ethernet Routing Switch 5510 Release 5.0, under **IPv4 Networks > OSPF > Interfaces** you can change the Type property from Broadcast to Passive. (Q01494730)
- With Ethernet Routing Switch 8300 Release 3.0, and Ethernet Routing Switch 8600 Release 3.7/4.1, you can delete VRRP entries displayed under **IPv4 Networks > VRRP > Interfaces**. (Q01488332)

### Trap/Log Manager

- Under **Tools > Trap Parser**, you can set trap filters based on VarBind. (Q01461625)
- **Tools > Trap Parser**, and the Varbind criteria is working correctly. (Q01488328).

### User Manager

- In ESM, Audit trail is implemented for tracking user operations. (Q01413658)
- In SUSE Linux, you can now launch the Help window. (Q01490331)

### VLAN Manager

- Port members moved from one VLAN to another in the same STG group are now properly updated. (Q01499882)
- If you assign an invalid VLAN ID, the correct error message is shown. (Q01499885)
- If you assign an invalid IP address and mask to a VLAN in an STG, the correct error message is shown. (Q01490413)

## Related publications

For additional information about the features in Enterprise Switch Manager 6.1.1, 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)*
- *Nortel Ethernet Routing Switch 4500 Series Configuration — Security Revision 2.1 (FNN47205-505, 322817-A)*
- *Nortel Ethernet Routing Switch 4500 Series Configuration — VLANs, Spanning Tree, and MultiLink Trunking Revision 2.1 (NN47205-501, 322813-A)*
- *Nortel Ethernet Routing Switch 2500 Series Security— Configuration and Management Revision 01.02 (NN47215-505, 323165-A)*
- *Nortel Ethernet Routing Switch 2500 Series Configuration — VLANs, Spanning Tree, and MultiLink Trunking Revision 01.01 (NN47215-501, 323163-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:

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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
- 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

**Getting Help through a Nortel distributor or reseller**

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.

**Getting Help over the phone from a Nortel Solutions Center**

If you do not find the information you require on the Nortel Technical Support web site, and have a Nortel support contract, you can also get help over the phone from a Nortel Solutions Center.

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:

[www.nortel.com/callus](http://www.nortel.com/callus)

**Getting Help from a specialist by using an Express Routing Code**

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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