



# Enterprise Policy Manager (EPM)

## Software Release 5.1.2

### Release Notes

## **1. Release Summary**

Release Date: 22-November-2010

Purpose: Software maintenance release to enhance the scalability, reliability, and performance of ERS 5500 QoS management, add new device support, address critical customer issues and other improvements. This maintenance release also introduces the beta version of Energy Management features.

## **2. Important Notes Before Upgrading to This Release**

EPM 5.1.2 provides an incremental update installer only and does not contain the full EPM release. On systems where EPM has never been installed, it is necessary to download the full EPM 5.1 installer, and install 5.1 first. Then the EPM 5.1.2 update installation may be performed. EPM 5.1.2 contains all of the EPM 5.1.1 updates. It is possible to install EPM 5.1.2 in the following supported scenarios:

EPM 5.1 → EPM 5.1.2  
EPM 5.1.1 → EPM 5.1.2

All existing EPM Data will be retained and updated.

When you are installing EPM the first time, ensure that one of the UCM Pre-Installation scripts has been run and it does not return any errors. The Pre Install Script provides a check for the most commonly seen issues and can help to make the initial installation successful and saves a considerable amount of time. Any UCM Pre Install script can be used such as the ones for the COM and VPFM products.

To run the EPM Installer or Pre Install script on Linux, the installer bin or script must have execute permission. For example, to set execute permissions for all users, use the shell command:

```
# chmod 777 filename
```

Where filename is the name of the installer bin or pre-install script and the # indicates a root shell login.

## **3. Platforms Supported**

- Windows Server 2003 SP2 (Standard or Enterprise versions) 32/64 bit – 64 bit recommended.
- Windows Server 2008 32/64bit – 64bit recommended

- Red Hat Enterprise Linux 5.2

#### **4. Notes for Upgrade**

Enterprise Policy Manager Maintenance Release 5.1.2 applies to both "Express" and "Custom" installations of Enterprise Policy Manager. Enterprise Policy Manager Installation supports the English language set and English operating system.

To install Enterprise Policy Manager Maintenance Release 5.1.2, please follow below steps:

Enterprise Policy Manager 5.1.2 can only be installed on a server that already has EPM 5.1 or EPM 5.1.1 installed.

Download the EPM\_5\_1\_2\_Windows.zip (windows) or EPM\_5\_1\_2\_Linux.zip (Linux) file from the Avaya web site to a directory on the target Enterprise Policy Manager 5.1.2 server or to a server with network share capability.

Download path: (Recommended)

<http://support.avaya.com> > Downloads > Enter the product name "Enterprise Policy Manager" > Select 5.1.x from the top checkbox > Click on "Enterprise Policy Manager Downloads" > Select "Downloads" tab > Click on desired OS specific 5.1.2 package link.

Alternate download path:

<http://support.nortel.com> > Select "Network Management" > Select "Enterprise Policy Manager" > Click on "Maintenance Release" link under Software section > Select "Enterprise Policy Manager 5.1.2"

Extract the files to a directory.

Exit/Close EPM UI & UCM web page.

Change directory (cd) to: directory where the Enterprise Policy Manager Maintenance Release 5.1.2 files were extracted.

To install Enterprise Policy Manager Maintenance Release 5.1.2 , open a command line and run the epm5\_1\_2\_installer.exe (windows) or epm5\_1\_2\_installer.bin (Linux)

When installation is complete, please exit the command line.

#### **File Names for This Release**

<b>File Name</b>	<b>Platform</b>	<b>File Size (bytes)</b>
epm5_1_2_installer.exe	Windows	89,204,705 Bytes
epm5_1_2_installer.bin	Linux	101,325,846 Bytes

## **5. Version of Previous Release**

Software Version 5.1.1

## **6. Compatibility**

N/A

## **7. New features and changes in This Release**

Summary of EPM 5.1.2 key features are as follows:

### **Stability and Scalability Enhancements**

Starting with EPM 5.1.2 a Next Generation Interface Manager has been added to EPM. The Interface Manager is the part of EPM that communicates with the end devices such as switches. The legacy Interface Manager used Command Line Interface (CLI) to configure Policies on network devices. This resulted in the possibility for stability issues if the legacy Interface Manager was communicating with the network device and a spurious Console Message occurred during policy provisioning. The Next Generation Interface Manager utilizes SNMP sets yielding significant performance and stability enhancements. The debut of the Next Generation Interface Manager in EPM 5.1.2 supports ERS 5500 for all types of Policies and ERS4500, ERS8300, and ERS5500 for PoE policies only. Before using EPM it's a good idea to ensure you have the proper CLI and SNMP access to your device provisioned in UCM Device and Server Credentials. In future releases of EPM, support for the majority of devices will transition from the legacy Interface Manager to the Next Generation Interface Manager. Initial scaling enhancements are targeted at 30,000 interfaces per system versus a recommended maximum of up to 2,000 interfaces for the Legacy Interface Manager.

### **Enhanced Policy Server support for ES460/470 and COPS-PR Protocol**

Previous to EPM 5.1.2 if an ES460/470 switch utilizing the COPS-PR protocol lost connection to the EPM Policy Server, the default action of the switch would be to reset itself to a default state with no policies on the switch. EPM 5.1.2 introduces an enhancement via a SNMP set to the ES460/470 that ensures that the implemented policies are retained by the switch even in the event of a loss of communication to the EPM Policy Server. Policies are lost however across a reboot of the switch. In the event of a switch reboot, as a normal function of the COPS-PR client on the switch, the ES460/470 will check in with the EPM Policy Server and all policies will be redeployed on the switch and will remain in effect until a reboot of the switch. Switches utilizing the COPS-PR protocol regularly check in with the EPM Policy Server to check for new or changed Policies to implement.

### **Classifier Grouping for Policies**

Previous versions of EPM would create individual classifier entries for each policy. In many cases this would exceed the maximum number of policies allowed on an ERS5500 switch. An intelligent grouping mechanism has been implemented for ERS5500 in this

release, to optimize the number of classifiers and classifiers blocks created on the device so as to maximize the number of policies that can be deployed on the device.

### **Energy Saver and PoE Policies**

EPM 5.1.2 introduces Energy Saver and PoE policy support (Beta Quality) for ERS4500 5.4 (Energy Saver firmware), as well as ERS8300 (standard firmware) and ERS5500 (standard firmware). This is accessible by clicking the New Enterprise Policy Manager (Beta) link from the UCM Home Page.

**Important Note:** During the Beta Quality period of this feature, the Energy Saver Policy Deployment will be available at no extra charge however an additional EPM Energy Saver License will be required and must be purchased at additional cost to enable this functionality after GA of the feature. Energy Saver Policies offer a significant TCO reduction and will provide Return on Investment in Energy Savings as well as reducing time necessary to identify, group, monitor/report on attached Powered Devices.

### **Dashboard with Savings and Consumption Trends**

EPM 5.1.2 introduces a new Savings and Consumption dashboard (Beta Quality) for ERS4500 5.4 (Energy Saver firmware), as well as ERS8300 (standard firmware) and ERS5500 (standard firmware). This is accessible by clicking the New Enterprise Policy Manager (Beta) link from the UCM Home Page. The EPM 5.1.2 dashboard allows for entering of Currency Description and Rates for calculation of Currency Savings, BTU/Heat Savings, and Co2 savings over various time periods.

**Important Note:** During the Beta Quality period of this feature the Energy Saver Policy Deployment will be available at no extra charge however an additional EPM Energy Saver License will be required and must be purchased at additional cost to enable this functionality after GA of the feature. Energy Saver Policies offer a significant TCO reduction and will provide Return on Investment in Energy Savings as well as reducing time necessary to identify, group, monitor/report on attached Powered Devices.

### **Next Generation Web Based User Interface**

EPM 5.1.2 introduces a Next Generation Web User Interface (Beta Quality) that is integrated into UCM versus a separately deployed Java Web Start based Client/Server architecture for the Legacy EPM User Interface. The Next Generation Web User Interface provides a significant performance increase over the Legacy Java Web Start user interface and does not require download/caching of the app thereby reducing startup in addition to increasing performance of the user interface for common tasks. The initial Beta functionality of this user interface will support PoE and Energy Savings policies only for ERS4500 5.4 (Energy Saver firmware), as well as ERS8300 (standard firmware) and ERS5500 (standard firmware). This is accessible by clicking the New Enterprise Policy Manager (Beta) link from the UCM Home Page.

**Important Note:** During the Beta Quality period of this feature the Energy Saver Policy Deployment will be available at no extra charge however an additional EPM Energy Saver License will be required and must be purchased at additional cost to enable this functionality after GA of the feature. Energy Saver Policies offer a significant TCO reduction and will provide Return on Investment in Energy Savings as well as reducing time necessary to identify, group, monitor/report on attached Powered Devices.

## **8. Devices Supported in this Release**

<b><u>Device</u></b>	<b><u>Agent Version</u></b>
ERS 5500	6.1.3, 6.2 (Fully supported by NEPM Next Generation Interface Manager)
ERS 4500	5.4
ERS 5600	6.1.3
ERS 8600	7.0
ERS 8300	4.2.2.2
ERS 460/470	3.7.5
SR 4K	10.2.1
SR 1K, 3K	9.4
ERS 16XX	2.1.8.1
ERS 8800	7.0

### **Supported POE Devices (Beta)**

<b><u>Device</u></b>	<b><u>Agent Version</u></b>
ERS 4500	5.4
ERS 5500	6.1.3
ERS 8300	4.2.2.2

## **9. Outstanding Issues**

<b><u>WI Number</u></b>	<b><u>Description</u></b>
wi00830606	RC Shows clear when one of multiple attached policies are in error
wi00828685	Role Combination name attached to a disabled policy does not show up in DSV
wi00832585	Error icon does not show up in DSV for few workflows when Role combination is in error condition
wi00824041	Role Combination name is not updated in DSV for certain workflows with error condition
wi00563735	Enabling Statistics on an interface does not get reflected on device
wi00563741	Enabling Outbound shaping on 5500 interfaces is not supported.

## **10. Known Limitations**

### **▪ Handling ERS 8600 Management Interfaces**

It has been observed that some ERS 8600/8800 agent versions (particularly v5.1 and v7.0) report management interfaces in the list of interfaces. Trying to deploy policies on the management interfaces is NOT supported; hence EPM 5.1.2 fails to manage those devices. During “Add Device”

workflow, on the “Learn Interfaces” dialog box, select only Non-Management interfaces to be managed by EPM so as to NOT learn management interfaces.

- **Install on Linux server**

On some limited Linux server deployments with specific DNS configurations, it was observed that JBOSS would take long time to come up (up to 30+ mins). Eventually EPM would come up and works as expected. Please try logging into EPM after 30 mins or so. This was ONLY observed on ONE Linux server out of all the servers 5.1.2 was tested in Avaya verification lab and trail customer deployments.

- **Uninstall of EPM 5.1.2**

Downgrading Enterprise Policy Manager 5.1.2 to 5.1.1 or 5.1 is not supported. Only way is to completely uninstall EPM and reinstall the required version. To uninstall EPM after installing 5.1.2, do NOT use the EPM 5.1 uninstaller. Instead, please manually execute from command prompt, the Perl script “EPM512\_Uninstaller.pl” located under %UCM\_HOME%\perl\perl\bin for Windows and \$UCM\_HOME/perl/perl5.8.8/bin for Linux.

After uninstall of 5.1 is complete, please remove the epm-console.jar from the Java Web Start (javaws) cache. You can remove the epm-console.jar from the Java Web Start (javaws) following below steps:

- Run javaws from command line (javaws can be located in JAVA\_HOME/bin).

- Under the user tab, select Enterprise Policy Manager and select Remove Application.

## **11. Documentation Corrections**

For other known issues, please refer to the product release notes and technical documentation available from the Avaya Technical Support web site at: <http://support.avaya.com>.

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