



Net-Net[®] EMS Release Notes

Release Version 6.0

Acme Packet, Inc.
71 Third Avenue
Burlington, MA 01803 USA
t 781-328-4400
f 781-425-5077
www.acmepacket.com

Notices

©2008 Acme Packet, Inc., Burlington, Massachusetts. All rights reserved. Acme Packet, Session Aware Networking, Net-Net, and related marks are trademarks of Acme Packet, Inc. All other brand names are trademarks, registered trademarks, or service marks of their respective companies or organizations.

Patents Pending, Acme Packet, Inc.

The Acme Packet Documentation Set and the Net-Net systems described therein are the property of Acme Packet, Inc. This documentation is provided for informational use only, and the information contained within the documentation is subject to change without notice.

Acme Packet, Inc. shall not be liable for any loss of profits, loss of use, loss of data, interruption of business, nor for indirect, special, incidental, consequential, or exemplary damages of any kind, arising in any way in connection with the Acme Packet software or hardware, third party software or hardware, or the documentation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply. These limitations are independent from all other provisions and shall apply notwithstanding the failure of any remedy provided herein.

Copying or reproducing the information contained within this documentation without the express written permission of Acme Packet, Inc., 71 Third Avenue, Burlington, MA 01803, USA is prohibited. No part may be reproduced or retransmitted.

Acme Packet Net-Net products are protected by one or more of the following patents: United States: 7072303, 7028092, 7002973, 7133923, 7031311, 7142532, 7151781. France: 1342348, 1289225, 1280297, 1341345, 1347621. Germany: 1342348, 1289225, 1280297, 1341345, 1347621. United Kingdom: 1342348, 1289225, 1280297, 1341345, 1347621. Other patents are pending.

About this Guide

Overview

The *Net-Net EMS 6.0 Release Notes* provides the following information when applicable:

- An overview of the new features available in Net-Net Element Management System (EMS)
- A summary of known issues and fixed defects
- Documentation updates

If any of these sections does not appear in the document, then there were no changes to summarize in that category for that specific release.

Related Documentation

The following table lists related documents.

Document Name	Document Description
Net-Net EMS Installation Guide	Contains graphical and next mode installation information
Net-Net EMS Quick Start Guide (4000 and 9000)	Contains information on how to discover Net-Net SBCs and perform basic configuration tasks
Net-Net EMS Administration Guide (4000 and 9000)	Contains information about security administration
Net-Net EMS Configuration Guide (4000 and 9000)	Contains information about the administration and software configuration of the Net-Net SBCs
Net-Net EMS User Guide (4000 and 9000)	Contains information about using the GUI and discovering Net-Net SBCs
Net-Net EMS Accounting Guide (4000 and 9000)	Contains information about the Net-Net SBC's accounting support, including details about RADIUS accounting
Net-Net EMS Decomposed SBC Essentials Guide	Contains information about how to configure Net-Net SBC BGs and SCs
Net-Net EMS SOAP XML Provisioning API User Guide	Contains information about how to use the Net-Net EMS SOAP API

Document Name	Document Description
Net-Net EMS SOAP XML Provisioning API Parameter Guide (4000 and 9000)	Contains tables listing all provisioning parameters the API supports on the Net-Net SBC platform
Net-Net EMS SOAP XML Provisioning API Reference Guide (4000 and 9000)	Contains information describing each call in the API supported on the Net-Net SBC platform

Who is Acme Packet?

Acme Packet enables service providers to deliver trusted, first class interactive communications-voice, video and multimedia sessions-across IP network borders. Our Net-Net family of session border controllers satisfy critical security, service assurance and regulatory requirements in wireline, cable and wireless networks. Our deployments support multiple applications-from VoIP trunking to hosted enterprise and residential services; multiple protocols-SIP, H.323, MGCP/NCS and H.248; and multiple border points-interconnect, access network and data center.

Established in August, 2000 by networking industry veterans, Acme Packet is a public company traded on the NASDAQ and headquartered in Burlington, MA.

Technical Assistance

If you need technical assistance with Acme Packet products, you can obtain it on-line by going to <https://support.acmepacket.com>. With your customer identification number and password, you can access Acme Packet’s on-line resources 24 hours a day. If you do not have the information required to access the site, send an email to tac@acmepacket.com requesting a login.

In the event that you are experiencing a critical service outage and require live assistance, you can contact the Acme Packet Technical Assistance Center emergency hotline:

- From the United States, Canada, and Mexico call: 1 866 226 3758
- From all other locations, call: +1 781 756 6920

Please note that a valid support/service contract with Acme Packet is required to obtain technical assistance.

Customer Questions, Comments, or Suggestions

Acme Packet is committed to providing our customers with reliable documentation. If you have any questions, comments, or suggestions regarding our documentation, please contact your Acme Packet customer support representative directly or email support@acmepacket.com.

Contact Us

Acme Packet
 71 Third Avenue
 Burlington, MA 01803 USA
 t 781 328 4400
 f 781 425 5077
www.acmepacket.com

Contents

About this Guide	iii
Overview	iii
Related Documentation	iii
Who is Acme Packet?	iv
Technical Assistance	iv
Customer Questions, Comments, or Suggestions	iv
Contact Us	iv
Net-Net EMS 6.0 Release Notes	7
Introduction	7
Overview	7
Net-Net EMS 6.0 Distribution	8
Notes	9
Net-Net EMS 6.0 New Features	9
Configuration Support	9
Registration Cache and HDR	10
JRE 1.5 and JRE 1.6	10
Net-Net EMS 6.0 SOAP XML Provisioning API	10
Performance Improvements	10
Security Enhancements	10
Enhanced Table Filtering Options	11
Search Configuration	11
Context-Sensitive Online Help	11
Configuration Integrity Check	11
Net-Net EMS and MIB Generated SNMP Traps	11
Platform Dependency Changes	11
Server Platform Dependencies	11
Client Platform Dependencies	11
SOAP Provisioning API Backward Compatibility Notes	11
Java Language Definition	12
Northbound SOAP WSDL	12

Upgrade Notes12

Problems Resolved Since Net-Net EMS 5.113

Known Issues in Net-Net EMS 6.014

Platforms Supported16

 Client Requirements16

 Server—Operating Systems16

Limitations16

Net-Net EMS 6.0 Release Notes

Introduction

The *Net-Net EMS 6.0 Release Notes* provide the following information about Net-Net EMS Release 6.0:

- An overview of Net-Net EMS
- A listing of all files available in the Net-Net EMS 6.0 distribution package
- An overview of the new features available
- An overview of platform dependency changes
- An overview of SOAP Provisioning API Backward Compatibility
- A summary of upgrade notes
- A summary of known issues and fixed defects
- A list of platforms supported
- A summary of limitations

Overview

Acme Packet's Net-Net Element Management System (EMS) is a network element (NE) management application for Acme Packet's Net-Net family of session border controllers (SBCs). It enables service providers to rapidly deploy and easily manage one or multiple Net-Net SBC nodes. As a standalone management system, Net-Net EMS supports configuration, fault, performance, and security management functions through an intuitive, easy-to-use, browser-based graphical user interface.

The application is built using a client/server architecture. The server runs on a UNIX-based (Solaris or Linux) platform, and the Java WebStart client is launched from a browser on a Windows-based system.

Net-Net EMS v6.0 manages Net-Net SBCs running generally available (GA) or patch builds of the following Net-Net OS releases:

Net-Net 4000				
2.0	2.0.1	2.1.0	2.1.1	2.2.0
4.0	4.0.1	4.1.0	4.1.1	
C4.1.4	C4.5	C4.5.1		
C5.0	C5.1	C5.1.1		
C6.0				

Net-Net 9000

D5.0 D5.0.1 D5.1

D6.0

**Net-Net EMS 6.0
Distribution**

The following files are available on the distribution media for this release:

File Name	Description
install.sh	Installation script
ACME_EMS_Setup_Solaris.bin	Installation file for Solaris platform
ACME_EMS_Setup_Linux.bin	Installation file for Linux platform
readme.txt	ReadMe file
j2re-1_5_0_14-windows-i586-p.exe	JAVA Runtime Environment
java.policy.zip	Client security file
Net-Net EMS 6.0 Documentation.zip:	Zip file containing the following documents:
• Net-Net EMS 6.0 Installation Guide.pdf	• Installation guide that includes graphical and next mode installation information
• Net-Net EMS 6.0 Quick Start Guide.pdf	• Quick Start Guide to discover Net-Net SBCs and perform basic configuration tasks
• Net-Net EMS 6.0 Administration Guide.pdf	• Administration Guide with information about security administration
• Net-Net EMS 6.0 4000 Configuration Guide.pdf	• Guide for using Net-Net EMS to configure Net-Net 4000 SBCs
• Net-Net EMS 6.0 4000 User Guide.pdf	• User Guide with detailed information about using the GUI and discovering Net-Net 4000 SBCs
• Net-Net EMS 6.0 9000 Configuration Guide.pdf	• Guide for using Net-Net EMS to configure Net-Net 9000 SBCs
• Net-Net EMS 6.0 9000 User Guide.pdf	• User guide with detailed information about using the GUI and discovering Net-Net 9000 SBCs
• Net-Net EMS 6.0 4000 Accounting Guide.pdf	• Guide for configuring RADIUS accounting support for Net-Net 4000 SBCs
• Net-Net EMS 6.0 9000 Accounting Guide.pdf	• Guide for configuring RADIUS accounting support for Net-Net 9000 SBCs
• Net-Net EMS 6.0 4000 Decomposed SBC Essentials Guide.pdf	• Guide for using Net-Net EMS to configure Net-Net 4000 BGs and SCs
Net-Net EMS 6.0 SOAP Prov API Documentation.zip:	Zip file containing the following documents:
• Net-Net EMS 6.0 SOAP XML Provisioning API User Guide.pdf	• Guide for using the Net-Net EMS SOAP API
• Net-Net EMS 6.0 4000 SOAP XML Provisioning API Parameters.pdf	• Set of tables listing all provisioning parameters the API supports on the Net-Net 4000 platform

File Name	Description
• Net-Net EMS 6.0 4000 SOAP XML Provisioning API Reference Guide.pdf	• Reference guide describing each call in the API supported on the Net-Net 4000 platform
• Net-Net EMS 6.0 9000 SOAP XML Provisioning Parameters.pdf	• Set of tables listing all provisioning parameters the API supports on the Net-Net 9000 platform
• Net-Net EMS 6.0 9000 SOAP XML Provisioning API Reference Guide.pdf	• Reference guide describing each call in the API supported on the Net-Net 9000 platform
Net-Net EMS-6-0 Dev Pkg JRE-1-4-2 SOAP Client.zip	Libraries, scripts, and sample code for users of the SOAP/XML northbound interface in a JRE 1.4.2 environment
Net-Net EMS-6-0 Dev Pkg JRE-1-5 SOAP Client.zip	Libraries, scripts, and sample code for users of the SOAP/SML northbound interface in a JRE 1.5 environment

Notes

- Full support for the HDR feature requires the following minimum patch release levels:
 - C5.0p12
 - C5.1p4
- D5.0p14 is the minimum required patch level to enable management on the D5.0 release.
- D6.0p2 is the minimum required patch level to enable management on the D6.0 release.
- Net-Net EMS 6.0 discovers and manages Net-Net SBCs running release C6.0 and D6.0. The features supported in those releases are the same sets that are supported in C5.1.1 and D5.1, respectively. There is no on-screen support for new device features introduced in C6.0 and D6.0.
- Net-Net EMS 6.0 does not provide on-screen configuration parameter support for any features added to a given release after the above versions.

Net-Net EMS 6.0 New Features

This section describes new features and capabilities introduced in Acme Packet's Net-Net EMS 6.0.

Configuration Support

Net-Net EMS 6.0 supports the configuration of features available as of the following builds of each Net-Net OS release:

2.0 GA	4.0p6	C4.5.1 GA	D5.0
2.0.1p65	4.0.1p27	C5.0 GA	D5.0.1 GA
2.1.0 GA	4.1.1p31	C5.1 GA	D5.1 GA
2.1.1p43	C4.1.4p26	C5.1.1p4	D6.0
2.2p13	C4.5 GA	C6.0	

Registration Cache and HDR

Net-Net EMS 6.0 displays Registration Cache data and Historical Data Recording (HDR) graphs for the Net-Net SBC 9200 platform.

JRE 1.5 and JRE 1.6

Net-Net EMS 6.0 supports Java Runtime Environment JRE 1.5 (5.0) and JRE 1.6 (6.0) releases on the client side. Additionally, the Net-Net EMS server now runs in a JRE 1.5 environment on the UNIX host.

Net-Net EMS 6.0 SOAP XML Provisioning API

The Net-Net EMS 6.0 SOAP XML Provisioning API now includes:

- Media profiles
- Response maps
- Access control lists

The Net-Net EMS 6.0 SOAP XML Provisioning API now contains the following additional information:

- getOperationStatusExt—Addition of a username to invoke the operation
- saveConfigExt, activateConfigExt, saveAndActivateConfigExt—Enhanced granular error information, based on the phase of operation that failed
- getActiveConfigInventory—Access to configuration record count for this node
- getInactiveConfigInventory—Access to configuration record count for this configuration copy

Performance Improvements

Net-Net EMS 6.0 provides improved performance of key Net-Net SBC node operations, such as discovery, rediscovery, copy, delete, and save.

Security Enhancements

The following security enhancements are available with Net-Net EMS 6.0:

- Support for third party X.509 security certificates
- Database security measures:
 - Access restricted to named user (ported from 5.0 P3 and 5.1 P1)
 - Strong password guidance (ported from 5.0 P3 and 5.1 P1)
 - Access restricted to specified host (ported from 5.0 P3 and 5.1 P1)
- Restricted access for Apache clients to directories and files in the Net-Net EMS installation
- Support for a Net-Net EMS specific user (nnems) on the UNIX operating system
- Constricted file system permissions with ownership given to the nnems UNIX user
- Removal of all CGI scripts from the Net-Net EMS installation
- Apache web server process running as a named user, rather than "nobody"
- Password expiration warning for user profiles
- Database stored encryption of all passwords associated with the Net-Net SBC
- Encryption of truststore and keystore passwords in server configuration files

Enhanced Table Filtering Options	You can customize data filtering for all tables within configuration screens.
Search Configuration	You can now search for, view, and edit top-level objects (for example, SIP interface, SIP manipulation) within an active node or an inactive copy node. (Active nodes and nodes locked by another user can only be viewed. Inactive, unlocked nodes can be viewed and edited if the user has appropriate privileges.)
Context-Sensitive Online Help	You can access context-sensitive screen-level online help within Net-Net EMS 6.0.
Configuration Integrity Check	A configuration integrity check mechanism, used during discovery and save operations, ensures that the number and type of configuration records transferred to the destination system matches the number intended to be transferred from the source system. This new feature is for use with C6.0 only.
Net-Net EMS and MIB Generated SNMP Traps	Net-Net EMS 6.0 now includes Net-Net EMS MIB and generated SNMP traps for provisioning operation or node reach-ability failures (ported from 5.1 P4).

Platform Dependency Changes

Server Platform Dependencies

The following server platform dependencies have changed:

You can now create a UNIX account called "nnems" prior to installing Net-Net EMS, and use this account when starting the server, rather than the root account.

The UNIX sudo facility must be installed on the server for deployments using the nnems account. The nnems user must be granted sudo privileges. This facility comes by default with Fedora Core 4 and RHEL AS v4.0, but not on Solaris 9 or Solaris 10. Instructions for installing the sudo facility on Solaris are found in the *Net-Net EMS 6.0 Installation Guide*.

Client Platform Dependencies

The following client platform dependencies have changed:

JRE 5.0 and 6.0 are supported versions for the GUI client. JRE 1.4 is no longer supported.

JRE 1.4.2 and 5.0 are supported versions for the Northbound SOAP Provisioning API client.

SOAP Provisioning API Backward Compatibility Notes

The programming and execution environment for northbound SOAP API provisioning clients is affected by new functionality and changes associated with the JRE 1.5 upgrade within the Net-Net EMS server. Existing client applications are compatible with the new environment at the source-code level, but not at the compiled level. Thus, customers with existing SOAP API Provisioning applications should generate new client-side stubs from the new WSDL included with this release and recompile all existing code.

Java Language Definition

Net-Net EMS 6.0 was successfully tested against client code compiled and executed using both JRE 1.4.2_08 and JRE 1.5.0_14.

However, the Java Language Definition changed from JRE 1.4 to JRE 1.5. As a result, certain identifiers have become reserved words. This causes some problems with the client side code generated by the Axis 1.1 wsdl2java tool. Wsdl2java makes extensive use of the identifier "enum" when generating the client side soap artifacts. The Java 1.5 compiler will not accept this identifier unless you add the following parameter to the javac command when compiling the client source code:

```
-source 1.4
```

Northbound SOAP WSDL

The Northbound SOAP WSDL changed in two areas:

- New operations were added to the ManagedLevel3 object
- Inheritance hierarchy for faults has changed

The new operations are associated with the three new types of configuration elements supported by the API, as listed above in *Net-Net EMS 6.0 New Features*, Net-Net SOAP XML Provisioning API. The specific new API calls are described in the *Net-Net EMS 4000 6.0 SOAP XML Provisioning API Reference Guide* and the *Net-Net EMS 9000 6.0 SOAP XML Provisioning API Reference Guide*.

The changes to the fault inheritance hierarchy are:

- All faults now derive from AcmeFault, which is contained in the package com.acme.ems.northbound.soap.fault generated by wsdl2 java.
- All faults have two attributes that are always populated:
 - The "validation" attribute defined by AcmeFault
 - An attribute defined by each particular fault

Previously, these two attributes were included, but their values were not always populated by the server-side code generating the fault. In Net-Net EMS 6.0, both attributes are filled in with identical strings. In future releases, more detailed information may be provided by defining by new subtypes of AcmeFault.

The client code is not expected to instantiate the faults, instead it catches the faults thrown by the server. However, if the client code does instantiate the faults, the code must use the two argument constructors as defined on each fault.

Upgrade Notes

The Net-Net EMS 6.0 installation supports upgrades from the following prior releases of Net-Net EMS:

- 4.2
- 4.3
- 5.0
- 5.1

The instructions for installing Net-Net EMS to accept connections over HTTPS have changed. Please refer to the *Net-Net EMS 6.0 Installation Guide*.

Problems Resolved Since Net-Net EMS 5.1

The following table lists problems found in Net-Net EMS 5.1 and subsequently resolved.

Defect Number	Description
11272	Attempts to lock/unlock an HA node while it is undergoing rediscovery might cause the node to become permanently locked.
11306	Net-Net EMS does not subscribe to the correct activate notification message from the Net-Net SBC, and thus prematurely concludes that activate is complete.
11476	Net-Net EMS automatically installs a user profile called "root" with a well-known password of "public." This user profile is not needed.
11995	During discovery and save operations, the Net-Net EMS treats the HDR push receiver password parameter as an encrypted string. Net-Net SBCs and BGs running C4.5 expect this parameter to be in clear text. Note: This defect was fixed on the Net-Net SBC in build 4.5.1b7.
12141	If a rediscovery operation is initiated while a client is displaying the Net-Net SBC registration cache or invoking the HDR start/stop operations, the operation or the client might hang.
12287	The timestamp field in the system config element might be updated during a discovery operation, even though the record was not changed.
12372	The dbBackup script does not automatically use the default directory path to store the backup file, and requires interactive input to specify that path.
12631	Net-Net EMS generates an exception when discovering a configuration that includes a session agent trust-me parameter whose value was set to a null string.
12844	The right-click options on an inactive node imply that creating a Net-Net SBC HA pair from two separate units is supported by Net-Net EMS, when it is not.
12918	Discovery attempts of a Net-Net 9000 that use the wrong password will cause all subsequent discovery attempts for that node to fail.
13154	The database security installation screen does not accept localhost or 127.0.0.1 as the database server address.
13373	The parameter extra method stats is missing in the Net-Net 9000 SIP config screen.
13796	SOAP API: The rediscoverManagedDevice call might time out instead of returning an error if its target node is locked by another user just before the call is invoked.
13982	Net-Net EMS cannot discover a configuration with a SIP config options string whose length is greater than 255 characters.
14011	Discovering a new Net-Net SBC node whose management IP addresses is a complete prefix of the IP address of nodes already discovered causes the already discovered node to disappear. For example, discovering 172.30.80.10 causes 172.30.80.1 to disappear.
14952	A SIP feature configuration element whose realm is blank is not displayed correctly.

Known Issues in Net-Net EMS 6.0

The following table lists Net-Net EMS 6.0 known issues and workaround steps.

Defect Number	Description	Workaround
5079	Leaving a screen without clicking the Apply button might cause entered data to be lost.	Always click the Apply button to save changes before moving from one screen to another.
6126	If a firewall/NAT exists between the client and the Net-Net EMS HA server pair and a failover occurs from primary to standby, the client will not automatically reconnect to the new primary.	Close the application on the client and manually connect to the new primary server.
9430 9252	The first time a Firefox browser is used to log in to a Net-Net EMS server that has been upgraded to a new release and the user creates a new domain, the client may not display the new domain in the navigation tree even though it was created successfully.	Log out, clear the Java Webstart cache on the client PC, and log in again. The domain will appear.
11781	After an inactive configuration copy is renamed, it cannot be saved to a Net-Net SBC.	Do not rename inactive configuration copies. Delete and recreate them from the original.
11970	The domain name format of the MID parameter in release C4.5 includes "<" and ">". Those characters are displayed in Net-Net EMS as "{" and "}", which does not support that format.	Do not use the domain name format for MID parameters. If that format is required, provision the BG or SC from the ACLI only.
13076	Performance management screens with large numbers of columns show only a portion of the columns, and the scroll bars are missing.	Maximize the client window and the nested window, and close the navigation tree frame. The full performance management screen will display.
14541	The installation screen in which an external email server is configured is misleading; it implies the server is used for Net-Net EMS HA setups only. Email can be generated for faults in standalone environments as well.	Use the screen to configure external email server information even in standalone server environments.
14935	Under rare circumstances, a node rediscovery operation may cause the active node icon and other icons within the same domain to disappear from the navigation tree.	Limit the number of nodes within a single domain to 5. If one of them disappears, locate the corresponding entry for that node in the discovery table and use the right-click option on the row to repeat the rediscovery process. The missing icons will reappear in the navigation tree when the rediscovery operation completes.
15185	The ShutDown_NP.sh script cannot be used on the standby member of an HA pair running on Fedora Core 4.	Use the stop_ems.sh script.

Defect Number	Description	Workaround
15212	Clients running JRE 1.6 do not reconnect or display data properly after a Net-Net EMS server failover.	Use JRE 1.5 on clients in an Net-Net EMS HA environment.
15213	The navigation pane and right-click options might be incorrect on client HTTPS sessions after a Net-Net EMS HA failover for JRE 1.6 clients.	Use JRE 1.5_14 on client PCs in Net-Net EMS HA environments that involve HTTPS.
15303	Syslog events cannot be deleted based on the IP address of the node that generated them.	Delete events individually.
15386	The MySQL database server process may increase its memory consumption on Solaris to the point where database operations, such as rediscovery, begin to slow down significantly or fail.	Manage no more than 50 Net-Net SBC with 2000 plus configuration elements each. If provisioning times degrade, recycle the EMS and MySQL server processes.
15657	Performing cascaded deletes via the SOAP API results in incorrect inventory counts for the child configuration elements, and causes subsequent save operations to fail.	From the SOAP API you can delete parent and children configuration elements separately, rather than using cascaded deletes.
15659	While setting up database replication you might see the following error when invoking the <code>mysqldump</code> utility on a Fedora Core system: <pre>[root@fedora-ems2 bin]# mysqldump NetNetDB > temp_file.sql</pre> <pre>mysqldump: Got error: 2002: Can't connect to local MySQL server through socket ' /var/lib/mysql/mysql.sock' (2) when trying to connect</pre> <pre>[root@fedora-ems2 bin]#</pre>	Run the script with <code>--socket</code> option as follows: <pre>[root@fedora-ems2 bin]# mysqldump -- socket=/tmp/mysql.sock NetNetDB > temp_file3.sql</pre>

Platforms Supported

Acme Packet has certified the following hardware and software platforms; and client requirements for use with Net-Net EMS 6.0.

Note: Other hardware configurations might work with the Net-Net EMS, but Acme Packet has verified the configurations listed here.

Net-Net EMS 6.0 ships with an integrated MySQL database (v5.0.24), which is installed as part of the Net-Net EMS application installation.

Client Requirements

- Internet Explorer (IE) v6.0 or higher
- Mozilla Firefox v1.0 or higher
- Windows XP Service Pack 1 or Service Pack 2 or Service Pack 3
- Windows 2000
- JRE requirements (supplied with the Net-Net EMS installation software). Ensure that you only have one Java runtime allocated in WebStart. Check the WebStart Preferences to verify allocation.
 - GUI: Java Runtime Engine 1.5_14 or higher (including JRE 1.6)
 - SOAP/XML: Java Runtime Engine 1.4.2_4 or 1.5_14 for Northbound SOAP API Provisioning clients

Server—Operating Systems

- Solaris 9
- Solaris 10
- Linux Red Hat Fedora Core 4
- Red Hat Enterprise Linux AS v4.0 32-bit mode

Limitations

The following limitations are found within Net-Net EMS 6.0:

- If the Net-Net EMS server runs on a multi-homed UNIX host, all host IP interfaces must be included in the SNMP community IP address list on all Net-Net SBCs managed, even if some of them are not accessible from the Net-Net SBC.
- Performance and inventory features do not work with a multi-homed EMS server.
- If a firewall/NAT is placed between the server and client, the server's DNS name must be defined separately, and distinctly, inside and outside the firewall.
- Creating an HA pair from two standalone Net-Net 4000 SBCs using Net-Net EMS 6.0 is not supported.
- If you make a copy for edit of configuration immediately after a discovery, the copy might fail because polling is in progress.
- Upon start-up, Net-Net EMS generates a warning message: Unknown valid-element-attribute:nameRule.
- A forward compatibility failure was not reported to the system.