



Release Notes for Cisco Prime Network Analysis Module 6.0(2)

April 14, 2014

This document provides general information about Cisco Prime Network Analysis Module (Prime NAM) 6.0(2) software.

This document includes the following sections:

- [Introduction, page 1](#)
- [System Requirements, page 2](#)
- [New and Changed Features in Release 6.0\(2\), page 2](#)
- [Known and Resolved Problems in Release 6.0\(2\), page 7](#)
- [Cisco Bug Search, page 10](#)
- [Documentation, page 10](#)

Introduction

Cisco Prime Network Analysis Module (NAM) gives network administrators a holistic view of how the network is performing and how users are experiencing the delivery of applications and services.

Comprehensive visibility helps you to:

- Optimize network resources
- Troubleshoot performance issues
- Deliver consistent performance levels

Cisco Prime NAM provides the following functionality:

- Interactive dashboards with intuitive workflows, contextual drill-downs, and one-click captures
- Comprehensive traffic statistics, application response time metrics, and voice/video performance analytics



- Detailed troubleshooting with continuous and triggered packet captures, advanced filters, and error scans
- Enhanced packet-level visibility and advanced troubleshooting.

In addition to the features and functionalities detailed in [New and Changed Features in Release 6.0\(2\)](#), this release also supports two new platforms: Cisco Nexus 7000 Series Network Analysis Module (NAM-NX1) and Cisco Prime Virtual Network Analysis Module (vNAM) platform. Cisco Prime Virtual Network Analysis Module (Prime vNAM) can be installed on x86_64 platforms with ESXi and KVM virtualization infrastructures.

NAM-NX1

Cisco NAM-NX1 is the first service module for the Cisco Nexus 7000 Series switch.

See the [NAM Compatibility Matrix](#) for the supported 7000 Series devices.



Tip

To take advantage of the Cisco Nexus 7000 Series Release 6.2(8) performance improvements for Data Center protocols (VxLAN, FabricPath, OTV, LISP, Segment ID, VNTag, and FCoE), you can upgrade the FPGA image in your Cisco Nexus 7000 Series NAM-NX1. For details on how to upgrade your FPGA image, see [FPGA/EPLD Upgrade Note for Cisco Prime NAM-NX1, 6.0](#).

Prime vNAM

You can deploy Prime vNAM in the cloud to monitor hosted workloads, or wherever you want in the network to eliminate blind spots. It combines comprehensive application awareness, performance analytics, and network visibility, enabling the network administrators with actionable information to manage their networks.

All Platforms

See the product data sheets available on [Cisco.com](#) for more information about Prime NAM features.

System Requirements

For details about the Prime vNAM system requirements, see the [Cisco Prime Virtual Network Analysis Module Installation and Configuration Guide](#). For NAM-NX1 system requirements, see

For other platforms, see the respective installation documentation on [Cisco.com](#).

For compatibility information on platform hardware and software, managed devices, and other support details, see the [NAM Compatibility Matrix](#).

New and Changed Features in Release 6.0(2)

This section contains:

- [New and Changed Features in Prime NAM 6.0\(2\)](#)
- [Supported Upgrades](#)
- [Supported Device and Feature Information](#)
- [Supported Browsers](#)

[Table 1](#) provides a detailed list of new features and functions and enhancements to Release 6.0(2).

For Cisco Prime NAM features and benefits, see the data sheets for your specific platform, on Cisco.com.

Table 1 *New and Changed Features in Prime NAM 6.0(2)*

Feature	Description	See...section in User Guide
New Features		
Rolling buffer capture option (Stop-save trigger)	When an event for which you have defined an alarm threshold occurs, Prime NAM stops any existing capture session and saves the captured packets from memory into a file. The capture session then restarts.	Understanding Trigger Capture
Scheduled capture	Scheduled capture provides a way to set up your capture session based on the date and time, as well as the duration desired.	
Multiple capture sessions can be created for a single storage target.	However, there can only be one session running at a given time per storage target.	
Capture trigger override priority	Capture trigger override priority provides a way to configure multiple capture sessions to use the same disk partition. Because only one session can be running, Prime NAM prioritizes capture sessions based on a set of rules.	
Enhanced captured packet decode	Provides enhanced display decode UI.	Understanding the Packet Decoder
Advanced settings feature in the email settings page	Includes: <ul style="list-style-type: none"> • Ability to designate port used to email access server • Option to select an encryption protocol 	
Auto Logout	The server is polled every minute. If a good session is not found, the page will be refreshed after three attempts, taking you to the login page, and then back to the same page. In case of popup windows the window is just closed.	
Support for IPv6	The release delivers USGv6 certification for all NAM form factors.	
Ability to validate nameserver	New button on Administration > System > Network Parameters to validate name servers.	

Table 1 *New and Changed Features in Prime NAM 6.0(2) (continued)*

Feature	Description	See...section in User Guide
Interface Statistics Aggregation Interval	Managed Device Interface Stats in Setup Aggregation Interval page allows you to configure how the Prime NAM receives SNMP interface statistics over longer intervals. The interval is 1 minute (default), 5 or 10 minutes. The long-term interval is 60 minutes (default) or 120. If visibility to Prime NAM managed device's interface stats is not desired, this feature can be disabled.	
Encapsulation Dashboard	<p>TopN Encapsulations chart replaces TopN VLAN chart on Monitor > Overview > Traffic Summary.</p> <p>Allows you to drill-down into sub-encapsulations and see overtime traffic, sub-encapsulations, applications, hosts and DSCP Aggregation (for the filters).</p> <p>The Setup > Classification > Encapsulations page is removed.</p>	Using Traffic Summary
Graphic scheduled report		
Changed Features		
Prime NAM should be operated within the specified capabilities. Excessive traffic load, excessive configurations like very high number of alarms and concurrent capture sessions, decoding very large capture files, and excessive disk usages, may cause the Prime NAM system to slow down and GUI to be less responsive.		
Prime NAM running on different physical hosts, different hypervisors, and different hardware virtualization support may have different performance levels.		
Do not run ERSPAN capture if you are monitoring more than 7 Gb traffic (NAM-3		
SPAN creation screen doesn't allow selection of ports on FEX modules		

Table 1 New and Changed Features in Prime NAM 6.0(2) (continued)

Feature	Description	See...section in User Guide
Prime NAM Data Sources UI changes	<ul style="list-style-type: none"> PA & WAAS data source segments are shown in individual rows instead of a single row. To delete segments, select them from the list and click Delete. To create or auto create segments, choose the respective button on the page. You can rename a particular data source segment for Edit option. Data Source Details column shows segment information, in case data source name is changed. 	
Host conversations webpage changes	<p>Host conversations will not show Conversations From and Conversations To tables. Instead only one table, Conversations for host, is displayed.</p> <p>Earlier, two tables were displayed.</p>	
Changes to <code>clear monitoring-data</code> command	This command no longer reboots Prime NAM, it only restarts the processes. The CDB allocation speed has been improved.	
Changes to <code>config clear</code> command.	This command no longer modifies the CDB files. It only removes config, as the command name suggests.	
VLAN parameter is not supported in site rule	<p>Site definitions that are supported in Prime NAM 6.0(2) are:</p> <ul style="list-style-type: none"> Subnet network Subnet network and Prime NAM data source. NDE data source WAAS data source 	Configuring Sites

Table 1 *New and Changed Features in Prime NAM 6.0(2) (continued)*

Feature	Description	See...section in User Guide
UI improvements and changes	<ul style="list-style-type: none"> • Histograms added to ART dashboards. • Tables, bar charts, line charts, and pie charts—Includes more details in tooltips and labels, and fixes to known issues. • Response Time setup page modify to enable you to understand what you are configuring. • Removed Setup > Encapsulation page. • Removed Setup > Data Export > NetFlow Capture > Packet Capture/Decode > Display Filters pages. • Response Time Distribution chart on ART related pages. 	
Changed the capture file format for Appliances from native format to .pcap format.		
ENC format is deprecated.	Downloading capture files in ENC format is not recommended.	
Changes to application response time (ART) unit display.	<p>If all chart data is in a single time unit range (that is, all in milliseconds or all in microseconds or all in seconds), then that time unit is displayed.</p> <p>Otherwise, milliseconds is the default unit, and all data is normalized to milliseconds.</p> <p>Table data is shown in microseconds.</p>	
Changed SPAN sessions UI page for Nexus 7000. Change is applicable to NAM appliance and NAM-NX1.	<p>For the NAM appliance, the new page is visible:</p> <ol style="list-style-type: none"> 1. netconf command is enabled. 2. The netconf address, username, and password for the device are provided. 3. It is either a Nexus 7000 or Nexus 5000. <p>For NAM-NX1, Device Information page is changed.</p>	

Table 1 *New and Changed Features in Prime NAM 6.0(2) (continued)*

Feature	Description	See...section in User Guide
Very small data values may be rounded down to zero (3 decimal precision).		
NAM no longer receives PA data from UDP port 3100	Prior to NAM 6.x release, NAM NetFlow is receiving from UDP port 3000, and NAM PA is receiving from UDP port 3100. As the result, existing PA device configuration has to be modified to UDP port 3000.	

Supported Upgrades

For details about how to upgrade to Prime NAM 6.0(2), see [Upgrading to Cisco Prime NAM 6.0\(2\)](#).

To take advantage of the Cisco Nexus 7000 Series Release 6.2(8) performance improvements for Data Center protocols (VxLAN, FabricPath, OTV, LISP, Segment ID, VNTag, and FCoE), you can upgrade the FPGA image in your Cisco Nexus 7000 Series NAM-NX1. For details on how to upgrade your FPGA image, see [FPGA/EPLD Upgrade Note for Cisco Prime NAM-NX1, 6.0](#).

Supported Device and Feature Information

For supported Cisco devices, see the latest information in the [NAM Compatibility Matrix](#) on Cisco.com.

Supported Browsers

Prime NAM supports the following browsers:

- Mozilla Firefox— ESR 17
- Microsoft Internet Explorer 9.0 with Chrome plug-in. Native Internet Explorer is not supported.

Known and Resolved Problems in Release 6.0(2)

For a complete list of bugs and enhancements for this release, use the Cisco [Bug Search](#) tool.

This section provides information about active bugs and limitations in the Cisco Prime NAM software.

- [Known Problems in Release 6.0\(2\), page 8](#)
- [Limitations, page 9](#)
- [Resolved Bugs, page 9](#)

See [Cisco Bug Search, page 10](#) for details about the bug search tool.

Known Problems in Release 6.0(2)

For a list of known bugs and limitations, use the The following tables provide a list of known problems in Cisco Prime NAM software.

[Table 2](#) provides a list of general known bugs Prime NAM software.

[Table 3](#) provides a list of known bugs that are related to upgrading to this release.

[Table 4](#) provides a list of limitations in this release.

Click on the identifier to view the impact and workaround for the problem. This information is displayed in the Bug Search Tool. To search in Bug Search Tool, search for **Network Analysis Module**.

Table 2 *General Known Problems*

Bug ID	Headline
CSCuf43672	Encapsulation filter does not work in RTP Streams page
CSCug17218	Drop-down menu in protocol filter of capture decode is empty (IE10 only).
CSCug75485	In bar charts some characters of y-axis labels may not display
CSCui05613	Capture file saved to external disk has incorrect Analyze info (NAM 2204 only)
CSCui59090	Unable to perform 'Analyze' operation on certain pcap files.
CSCuj08380	VLAN software capture filter supports 0-4095, insufficient for VXLAN.
CSCuj69873	Page number may not be accurate on Capture Decode after changing range.
CSCuj89843	External iSCSI storage device down status may not be up-to-date on GUI
CSCul41678	Spurious error message on initial IPv6 gateway CLI configuration from CLI
CSCul64488	vNAM on KVM may stop receiving packets after working for a long time
CSCul70821	Unsupported menu items (SPAN config) still present on Nexus-1K VSB NAM
CSCul08732	Managed device connectivity test does not validate SNMP community string
CSCum03998	msec time values not converted to mins. on Client Transaction Time chart
CSCum23839	Report jobs need rescheduling after changing IP http/https parameters
CSCum27325	On NAM-1-250S: Admin > Overview may show small/negative traffic values
CSCum54558	Drill down from Alarm Summary page does not function correctly
CSCun01469	Dashboard view filters are not inherited in quick capture data

Table 3 Upgrade Known Problems

Bug ID	Headline
-	Upgrade limitations include: <ul style="list-style-type: none"> • Custom decode filter settings are lost. • "show license" on Nexus-1K VSB NAM fails. • Custom interactive report filters and custom sites settings are not saved. • Some custom applications may display as blank or deleted. • IP address is lost after upgrade with --install on NAM-1-250S/NAM-2-250s.
CSCud55243	Reformat upgrade to appliance NAM 6.0 may lose network configurations

Limitations

[Table 4](#) lists the limitations that exist in this release of Prime NAM:

Table 4 Limitations

Bug ID	Headline
CSCuc99511	Problem deleting SPAN sessions on Catalyst 6K with some versions of IOS
CSCud49393	Captured packet frame length may differ from wire length on some NAMs
CSCud55243	Reformat upgrade to appliance NAM 6.0 may lose network configurations
CSCuf91970	Long-term data may not viewable until hourly roll-up is complete.
CSCug13865	NAM-NX1: must use data port 2 to monitor NAM's management VLAN
CSCuh23807	NAM NetFlow Interface Traffic graph shows incorrect utilization value
CSCui98300	Several issues in decode page and sw-filter configure when using IE9
CSCtq30121	VPN-SPA module not configurable SPAN src through GUI

Resolved Bugs

[Table 5](#) lists the known issues in Prime NAM 5.1.x and 6.0(1) that are resolved in this release:

Table 5 Resolved Bugs

Bug ID	Description
CSCui80873	Script errors may be encountered with Firefox using capture decode.
CSCts73141	On Nexus 1K VSB NAM, "data port" should not be an allowed capture source.
CSCts76767	Spurious nbd error messages after installing NAM image on NME-NAM-120S.
CSCts80603	Capture with file rotation incorrectly allowed on local disks (NAM-1/2)
CSCts87308	iSCSI storage is not unmounted if Supervisor restarts NAM-1/NAM-2.

Table 5 **Resolved Bugs**

Bug ID	Description
CSCts96711	Upgrading SM-SRE-NAM image from helper, spurious error msg is displayed
CSCts65528	NAM-1/NAM-2: only a single LUN can be mapped to each iSCSI IQN.
CSCts56389	Upgrade may fail on NAM-1/NAM-2 with MP 2.1(3).
CSCtq15493	nslookup failure for some hostnames may cause GUI display errors.
CSCto72361	Saving a new interactive report filter may fail after deleting a site.
CSCto46833	Wrong units string may be displayed on Response Time Detail table.
CSCui77654	Real Time Graph loses sort column on data refresh.
CSCui68294	Changing all values on 'network parameters' page has no effect using IE9.
CSCui66860	Viewing old data with deleted app/site/datasource may cause an error.
CSCui25944	CLI and GUI may display different time zones.
CSCui06184	NAM-NX1: application restart may occur when sending trap messages.
CSCue62619	No graceful shutdown on NAM-NX1 when ejectors are used to remove blade.
CSCud94429	Email advanced encryption settings may not work as expected.
CSCud86625	Error may occur when configuring Conversation Bytes alarm threshold.

Cisco Bug Search

Bug Search Tool (BST), the online successor to Bug Toolkit, is designed to improve our customers' effectiveness in network risk management and device troubleshooting.

BST allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. The service has provision to filter bugs based on credentials to provide external and internal bug views for the search input.

Please check out [Bug Search Tools & Resources](#) on Cisco.com. For more details on the tool overview and functionalities, check out the help page, located at <http://www.cisco.com/web/applicat/cbsshelp/help.html>

Accessibility Features in Cisco Prime NAM Release 6.0(2)

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

Documentation

You can access the following additional Prime NAM guides on Cisco.com. For other documentation related to Prime NAM, see [Related Documentation, page 11](#).

**Note**

We sometimes update the documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

- [Cisco Prime NAM Documentation Overview](#)
- [Cisco Prime Virtual Network Analysis Module Installation and Configuration Guide](#)
- [Cisco Prime Network Analysis Module User Guide](#)
- [Cisco Prime Network Analysis Module Command Reference Guide](#)
- [Open Source Used in Cisco Prime Network Analysis Module](#)
- [Release Notes for Cisco Prime Network Analysis Module 6.0\(2\)](#) (this document)

Related Documentation

For additional information about other documentation see the [Cisco Prime Network Analysis Module Documentation Overview](#) on Cisco.com.

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly What's New in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at the following URL:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the What's New in Cisco Product Documentation as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

© 2014 Cisco Systems, Inc. All rights reserved.

