



# Cisco Active Network Abstraction 3.6.4 Release Notes

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Revised: February 1, 2011, OL-17260-03

These release notes support the release of Cisco Active Network Abstraction (Cisco ANA) 3.6 Service Pack 4 (3.6.4).



**Note**

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See Cisco.com for the most up-to-date version of the [Cisco Active Network Abstraction 3.6.4 Release Notes](#).

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# Introduction

Cisco ANA 3.6 is a carrier-class, multiple-vendor network and service management platform providing the flexibility for carriers and service providers to efficiently respond to the constant market demand for new, reliable, and more sophisticated services.

Cisco ANA 3.6 identifies network characteristics and builds a real-time virtual model of the network, serving as a live information base for value-added tools and applications capable of seamless integration within a customer's existing Operations Support System (OSS) environment.

Cisco ANA 3.6 provides a unified solution for diverse network environments and applications. Implemented with a highly scalable and distributed architecture, Cisco ANA 3.6 offers:

- Integrated and configurable network resource management
- Network and service discovery
- Network and service fault isolation
- A highly flexible service activation engine

These integrated applications enable correlated management of global-scale networks supporting millions of subscribers and customers.

Cisco ANA 3.6 is a unified, fully integrated solution that offers:

- Multiple-vendor device support
- Multiple-technology coverage: IP, Layer 2 and Layer 3 VPN, xDSL, ATM, Frame Relay, Gigabit Ethernet, Ethernet, 802.1Q, Inter-Switch Link (ISL), QinQ VLAN tag (QinQ), Spanning Tree Protocol (STP), Layer 2 Tunneling Protocol (L2TP), and routing protocols such as Border Gateway Protocol (BGP)
- Integrated device, network, and service management functionality
- Open interfaces for integration with multiple OSS/Business Support System (BSS) applications

Cisco ANA 3.6 dynamically discovers and identifies basic network components, while obtaining end-to-end visibility of the network resources, connections, and dependencies, enabling Cisco ANA 3.6 to manage and analyze network behavior. Cisco ANA 3.6 builds its end-to-end understanding of the network structure and interoperability across vendors, technologies, and network layers into a customer-specific virtual network model for each installation.

The virtual network model within Cisco ANA 3.6 is an always maintained, up-to-date, enabling, and powerful device, network, and service management function, including:

- Configurable Device Manager: Basic resource management features for multiple-vendor devices
- Network and Service Discovery: Physical and logical discovery with multiple-layer network and service connectivity
- Network and Service Fault Isolation: End-to-end, topology-based fault isolation, monitoring, and root cause analysis
- Service Activation
- A series of product options including Northbound APIs, Path Tracing, and client UIs

## New Features in Cisco ANA 3.6.4

The following new features were added in Cisco ANA 3.6.4:

- Certification of Cisco CRS-1 and Cisco GSR XR devices with Cisco IOS XR 3.7.0 and 3.7.1 software.
- Support for the following ATM Shared Port Adapter (SPA) cards on Cisco CRS-1 routers:
  - Cisco SPA-1xOC12-ATMV2
  - Cisco SPA-3xOC3-ATMV2
- Layer 3 Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) support for Cisco CRS-1 routers.
- Enhancements for Cisco 7206VXR routers and Cisco 6509 switches.
- Inventory and alarm support for Protocol-based Tunnel Service (PBTS) for MPLS Traffic Engineering (TE) tunnels.
- Pseudowire Emulation Edge-to-Edge (PWE3) Layer 2 VPN support for ATM.
- Extended pseudowire correlation support for ATM over MPLS (ATMoMPLS).
- Support for ATM local switching on Cisco CRS-1 devices.
- In NetworkVision, the card name displayed comes from the MIB instead of device physical inventory.
- Correlation of Bidirectional Forwarding Detection (BFD) events.
- Correlation support for pseudowire to TE tunnel faults.
- Updated alarm query in Broadband Query Language (BQL).
- Automatic clearing of persistency files during Cisco ANA 3.6.4 installation.
- A script for changing the password that Cisco ANA uses to connect to the database.
- A new user guide, *Cisco Active Network Abstraction User Guide*, that consolidates the following guides published in previous releases:
  - *Cisco Active Network Abstraction NetworkVision User Guide*
  - *Cisco Active Network Abstraction EventVision User Guide*
  - *Cisco Active Network Abstraction Fault Management User Guide*

## New VNEs Introduced

Table 1 identifies the VNE device support introduced with Cisco ANA 3.6.4.

**Table 1** Cisco ANA 3.6.4 VNEs

Vendor	Device Classification	Device Family	Device Type/Product No.
Cisco	Switch	3750	<ul style="list-style-type: none"> <li>• 3750</li> <li>• 3750E</li> <li>• 3750G</li> </ul>

For details on the support provided for each VNE, see the [Cisco Active Network Abstraction VNE Reference Guide 3.6 Service Pack 4](#).

This release also includes support for additional modules and software versions for VNEs that are supported by previous Cisco ANA releases. For details, see the [Cisco Active Network Abstraction VNE Reference Guide 3.6 Service Pack 4](#).

## Enhanced Functionality for VNEs

**Table 2** Enhanced Functionality for Cisco ANA 3.6.4 VNEs

Vendor	Device Classification	Device Family	Functionality
Cisco	Router	CRS-1	ATMoMPLS with Layer 2 VPN
Cisco	Router	CRS-1	BFD for Cisco IOS XR software
Cisco	Router	7600	BFD for Open Shortest Path First (OSPF) and Border Gateway Protocol (BGP)

For details regarding scheme support, see the [Cisco Active Network Abstraction Technology Support and Information Model Reference Manual, 3.6 Service Pack 4](#).

## Service Alarms Added

Table 3 describes the service alarms that were added in Cisco ANA 3.6.4.

**Table 3** Service Alarms Added in Cisco ANA 3.6.4

Alarm	Description	Clearing Alarm
BFD connectivity down	Issued when the state of a BFD session goes from up to down.	BFD connectivity up
BFD neighbor loss	Issued when the BFD neighbor is no longer reachable.	BFD connectivity up
Local switching entry down <sup>1</sup>	Layer 2 cross connect entry is down due to segment 1 being down, segment 2 being down, or segments 1 and 2 being down.	Local switching entry up <sup>1</sup>
Local switching entry unresolved <sup>1</sup>	Layer 2 cross connect entry is unresolved due to segment 1 being unresolved, segment 2 being unresolved, or segments 1 and 2 being unresolved.	Local switching entry up
High Priority MPLS TE tunnel down	Subalarm of high priority for the MPLS TE Tunnel down service alarm.	MPLS TE Tunnel up
Medium Priority MPLS TE tunnel down	Subalarm of medium priority for the MPLS TE Tunnel down service alarm.	MPLS TE Tunnel up
Low Priority MPLS TE tunnel down	Subalarm of low priority for the MPLS TE Tunnel down service alarm.	MPLS TE Tunnel up

1. It is possible for segment 1 alone to be down, up, or unresolved; segment 2 alone to be down, up, or unresolved; or both segments to be down, up, or unresolved.

For more information about event and alarm configuration parameters, see the [Cisco Active Network Abstraction User Guide, 3.6 Service Pack 4](#).

## Trap Support Added

The following sections identify the trap support added in this release:

- [V2 Traps - Cisco IOS, page 5](#)
- [V2 Traps - Cisco IOS XR, page 6](#)

### V2 Traps - Cisco IOS

**Table 4** Cisco IOS V2 Traps

Trap Name	Trap OID	Short Description
caem Temperature Notification	1.3.6.1.4.1.9.9.61.2.0.1	caem Temperature Notification Trap
caem Voltage Notification	1.3.6.1.4.1.9.9.61.2.0.2	caem Voltage Notification Trap
cbgpFsmStateChange	1.3.6.1.4.1.9.9.187.0.1	Cisco BGP FSM state changed trap
ciscoRFPgressionNotif	1.3.6.1.4.1.9.9.176.2.0.2	Cisco RF unit state changed
cisco-EnvMon-Shutdown-Notification-Trap	1.3.6.1.4.1.9.9.13.3.0.1	Cisco EnvMon Shutdown Notification Trap
clc IfMacLimit Low Notif	1.3.6.1.4.1.9.9.313.0.3	Cisco L2 Control IfMacLimit Low Notif Trap
clc IfMacLimit High Notif	1.3.6.1.4.1.9.9.313.0.4	Cisco L2 Control IfMacLimit High Notif Trap
clc IfVlanMacLimit Low Notif	1.3.6.1.4.1.9.9.313.0.5	Cisco L2 Control IfVlanMacLimit Low Notif Trap
clc IfVlanMacLimit High Notif	1.3.6.1.4.1.9.9.313.0.6	Cisco L2 Control IfVlanMacLimit High Notif Trap
clc VlanMacLimit Notif	1.3.6.1.4.1.9.9.313.0.1	Cisco L2 Control VlanMacLimit Notif Trap
clc VlanMacLimit High Notif	1.3.6.1.4.1.9.9.313.0.2	Cisco L2 Control VlanMacLimit High Notif Trap
cmn-Mac-Changed-Notification-Trap	1.3.6.1.4.1.9.9.215.2.0.1	cmn Mac Changed Notification Trap
cmn-Mac-Move-Notification-Trap	1.3.6.1.4.1.9.9.215.2.0.2	cmn Mac Move Notification Trap
cps-IfVlan-Secure-MacAddr-Violation-Trap	1.3.6.1.4.1.9.9.315.0.0.3	cps IfVlan Secure MacAddr Violation Trap
cps-Secure-MacAddr-Violation-Trap	1.3.6.1.4.1.9.9.315.0.0.1	cps Secure MacAddr Violation Trap
trunking	1.3.6.1.4.1.9.9.46.2.0.7	VLAN trunk port dynamic status changed to trunking
not trunking	1.3.6.1.4.1.9.9.46.2.0.7	VLAN trunk port dynamic status changed to not trunking
vtp VersionOne Device Detected	1.3.6.1.4.1.9.9.46.2.0.6	VTP VersionOne Device Detected trap
vtp Local Mode Changed	1.3.6.1.4.1.9.9.46.2.0.8	VTP Local Mode Changed trap
vtp VersionInUse Changed	1.3.6.1.4.1.9.9.46.2.0.9	VTP VersionInUse Changed trap

## V2 Traps - Cisco IOS XR

**Table 5** *Cisco IOS XR V2 Traps*

Trap Name	Trap OID	Short Description
ciscoRFSwactNotif	1.3.6.1.4.1.9.9.176.2.0.1	Cisco RF Swap Status - Unsupported
		Cisco RF Swap Status - None
		Cisco RF Swap Status - Not Known
		Cisco RF Swap Status - UserInitiated
		Cisco RF Swap Status - UserForced
		Cisco RF Swap Status - ActiveUnitFailed
		Cisco RF Swap Status - ActiveUnitRemoved

## Syslog Support Added

The following sections identify the new syslog support added in this release:

- [Cisco IOS Software, page 6](#)
- [Cisco IOS XR Software, page 6](#)

### Cisco IOS Software

For Cisco IOS software, BFD discovers OSPF and BGP neighbor down events.

### Cisco IOS XR Software

[Table 6](#) identifies the syslog supported added in this release for Cisco IOS XR software.

**Table 6** *Cisco IOS XR Syslog Support Added*

Syslog Name	Description	Severity
BFD session state down	The BFD session with a neighbor has gone down.	Informational
BFD session state up	The BFD session with a neighbor is up.	Informational
BFD session removed	The BFD session with a neighbor has been removed.	Informational
BFD neighbor down	The neighbor is down due to receiving a BFD failure detection notification.	Major

## Important Notes

This section includes the following topics:

- [Installation Notes, page 7](#)
- [Solaris 10, page 8](#)
- [Solaris Services and Components, page 11](#)

- [Using Cisco CRS-1 VNEs, page 12](#)
- [Supported Schemes, page 13](#)
- [JDK DST Timezone Update Tool for Cisco ANA, page 13](#)
- [Configuring Database Storage \(Redo Logs\), page 14](#)
- [Online Help, page 14](#)

## Installation Notes

This section includes the following topics:

- [Memory Consumption, page 7](#)
- [Generating SSH Keys, page 7](#)
- [Backward Compatibility, page 7](#)

For installation procedures, see the *Cisco Active Network Abstraction Installation Guide 3.6 Service Pack 4*.

Service Pack 4 is installed on top of a Cisco ANA 3.6 installation and includes all patches that were released since the Cisco ANA 3.6 release. Any patches or fix packs that were previously installed on top of Cisco ANA 3.6 are automatically uninstalled by the Service Pack 4 installation script.

## Memory Consumption

If your network contains several routers that maintain 1000 or more BGP routing entries in their routing tables, and if the VNEs for these devices use the product scheme, memory consumption might increase with this release.

To determine if you are affected, see [Table 3, Enhanced Functionality for Cisco ANA 3.6.4 VNEs](#). If new modeling was added for VNEs used in your environment, we recommend that you check your AVM memory allocations. Contact the Cisco Project Manager or Cisco Account Team to perform the necessary calculations.

## Generating SSH Keys

You must generate Secure Shell Protocol (SSH) keys to ensure synchronization between the gateway and units. SSH keys are generated on the gateway and propagated to all the units in the setup. For more information, see the *Cisco Active Network Abstraction Installation Guide, 3.6 Service Pack 4*.

## Backward Compatibility

Note the following with regard to backward compatibility of Cisco ANA 3.6.4 with existing installations of Cisco ANA 3.6:

- Before installing Cisco ANA 3.6.4, review the Best Practices for Integration BQL Parsing chapter in the *Cisco Active Network Abstraction Customization User Guide, 3.6 Service Pack 4* to ensure that the integration is not affected.
- All system configuration changes made to the registry are maintained.

# Solaris 10



**Note**

When installing a Solaris 10 patch cluster, carefully follow the instructions in the readme file that comes with the Sun patch cluster, as the readme includes procedures that are important for the successful installation of the patch.

On Sun servers, the recommended operating system for Cisco ANA 3.6.4 is Solaris 10. Cisco ANA 3.6.4 is compatible with the latest patch release as published by Sun on January 18, 2008 (Cluster patch ID Generic\_120011-14). [Table 7](#) identifies the patches included in this patch release.

**Table 7 Sun Patch Release (January 18, 2008)**

Patch Number	Patch Number
116781-02	117447-01
117463-05	118371-10
118373-01	118564-03
118731-01	118879-02
118890-03	118925-05
118929-05	119012-03
119073-03	119077-10
119265-02	119332-01
119336-01	119573-02
119580-05	119586-02
119593-01	119685-11
119824-02	119826-02
119981-09	119985-02
119998-02	120023-01
120032-04	120048-03
120050-06	120469-07
120473-12	120629-08
120780-04	120809-01
120824-09	120845-05
120990-02	120998-02
121006-02	121010-06
121215-01	121229-02
121235-01	121278-01
121282-02	121284-02
121288-03	121292-01
121294-01	121406-01
121473-01	121474-01

**Table 7** Sun Patch Release (January 18, 2008) (continued)

Patch Number	Patch Number
121476-01	121478-01
121786-01	121905-01
122251-01	122328-01
122404-01	122412-01
122513-02	122535-01
122637-01	122646-02
122658-04	122660-10
122662-05	122752-04
123017-01	123249-02
123256-02	123324-03
123330-01	123350-01
123354-03	123356-02
123362-01	123418-02
123420-02	123422-03
123441-05	123444-01
123910-03	123911-01
123916-05	123954-01
124204-04	124208-01
124250-03	124254-04
124258-07	124280-01
124286-01	124327-04
124442-01	124916-03
124918-02	124921-02
124922-03	124987-02
124990-01	124993-01
124995-01	125009-01
125011-01	125014-03
125018-02	125020-01
125024-01	125026-01
125028-02	125028-03
125035-01	125040-01
125042-02	125073-01
125077-03	125079-01
125100-10	125112-01
125114-01	125116-02
125118-01	125120-03

**Table 7 Sun Patch Release (January 18, 2008) (continued)**

Patch Number	Patch Number
125123-01	125127-01
125129-01	125198-02
125203-01	125329-03
125363-06	125371-01
125383-01	125385-02
125420-01	125422-01
125424-01	125427-01
125430-01	125432-01
125465-02	125478-01
125486-01	125488-02
125492-01	125494-02
125497-01	125792-01
125795-01	126255-01
126303-02	126310-01
126320-01	126429-01
126536-01	126663-01
126838-01	



**Note**

For any later patches distributed by Sun, contact the Cisco Project Manager or Cisco Account Team.

## Possible Solaris Library Errors

Because several Solaris library files are packaged with Cisco ANA 3.6.7, you may see error messages if your version of Solaris includes commands that rely on updated versions of these libraries. This has been observed when Cisco ANA is installed on Solaris 10 with a kernel level later than Generic\_120011-14. (You can check your operating system’s current kernel level with the Solaris **uname -v** command.)

This is the type of error message you will see in this scenario:

```
ld.so.1: id: fatal: libelf.so.1: version 'SUNW_1.6' not found (required by file
/lib/libproc.so.1)
ld.so.1: id: fatal: libelf.so.1: open failed: No such file or directory Killed
```

The workaround is to overwrite the Cisco ANA version of the library file (which is listed in the error message) with the newer version that is packaged with your version of Solaris:

```
cp new-solaris-library ANAHOME/old-solaris-library
```

In the following example:

- The outdated library is libelf.so.1
- The updated library is located in /usr/lib/libelf.so.1

- The Cisco ANA installation directory is /export/home/sheer4
- The Cisco ANA subdirectory that contains the outdated library file is /local/lib/sparc/5.10

This is the command you would run to overwrite the old library with the new library:

```
# cp /usr/lib/libelf.so.1 /export/home/sheer4/local/lib/sparc/5.10/
```

## Solaris Services and Components

Table 8 lists the Solaris services and components that Cisco ANA uses and that must not be removed.

**Table 8** Solaris Services and Components Used by Cisco ANA

Name	Function	Configuration Information	TCP and UDP Port Numbers	Traffic Classification
Xntpd	Time server	/etc/inet/ntp.conf	123 (UDP)	NTP
/bin/tcsh	UNIX shell	None	None	None
/usr/bin/tcsh	UNIX shell	None	None	None
Perl	Scripting language	None	None	None
/bin/sh	UNIX shell	None	None	None
Rsh/rexec	Remote shell	None	512, 513, 514 (TCP)	None

Table 9 lists the product services that are installed with Cisco ANA.

**Table 9** Product Services Installed with Cisco ANA

Name	Description	Configuration Information	TCP or UDP Port Numbers	Dynamic TCP or UDP Port Ranges	Interdependencies with Other Features, Applications, and Services	Traffic Classification
Avm[1-999]	Main application	Main/registry/Avm[NUM].xml	—	2000-3000, 8000-9000 (TCP)	Java, Perl, Tcsh	Inner protocol
Udp2icmp	ICMP redirector	—	10001 (UDP)	—	Perl	—
redirectUdp	UDP redirector	—	162,1162, 514, 1514 (UDP)	—	Perl	—
Sheer_secured	Secured connectivity between gateway and unit	local/sheer_secured/sheer_conf	1101 (TCP)	—	—	SSH
webserver	Serves the client Web Start and the bloodtest	utils/apache/conf/sheer.conf	1310, 1311 (TCP)	—	—	HTTP
Machine interface	BQL machine-to-machine interface	—	9002 (TCP)	—	Java	—

**Table 9** *Product Services Installed with Cisco ANA (continued)*

Name	Description	Configuration Information	TCP or UDP Port Numbers	Dynamic TCP or UDP Port Ranges	Interdependencies with Other Features, Applications, and Services	Traffic Classification
secure machine interface	Secured BQL machine-to-machine interface	—	9003 (TCP)	—	Java	—
transport switch	Gateway/unit internal message bus	—	9290 (TCP)	—	Java	—
Client Applications Transport	Client/gateway message bus This point-to-point (PTP) connection is secured by Secure Socket Layer (SSL).	—	9771 (TCP)	—	Java	—
Syslog redirector	Redirects syslog messages	—	1162 (UDP)	—	—	—
Traps redirector	Redirects trap events	—	1512 (UDP)	—	—	SNMP

## Using Cisco CRS-1 VNEs

### Installing the Cisco IOS XR Manageability Package

For Cisco CRS-1 VNEs, you must install the Cisco IOS XR Manageability Package on top of the Cisco IOS XR version. In addition, verify that the device configuration contains the command:

```
xml agent tty
```

### Creating the SNMP Community

When creating the SNMP community, configure a new SNMP community string that has SystemOwner privileges. To do this, log into the device and create a new community READ string with SystemOwner privileges, and then direct the Cisco ANA VNE to use the new community. For example:

```
snmp-server community 1icpub RO SystemOwner
snmp-server community ate9riv RW
```

## Missing Module Software Version Values

The module software version does not appear for Cisco CRS-1 devices that use software earlier than Cisco IOS XR version 3.7. This issue was resolved in Cisco IOS XR version 3.7 but occurs in earlier versions. For more information, see [CSCsk36398](#).

## Supported Schemes

Cisco ANA supports two schemes:

- **Product**—The default scheme used for all device types supported in this release, except for the Cisco CRS-1, Cisco XR 12000 series, Cisco 3750ME, and the Juniper M-Series.
- **ipcore**—The scheme used only for routers serving as Provider (P) or Provider Edge (PE) devices.

[Table 10](#) identifies the schemes used by device type.

**Table 10** Schemes Used by Device Type

Device Types	Product Scheme	ipcore Scheme
All Cisco router devices of families less than 3600	X	
All Cisco router devices of families equal to or greater than 3600	X	X
Cisco Catalyst 6500 series in a VSS configuration	X	X
Noncore devices such as customer edge (CE) routers, switches, WAN switches, DSLAMS, and so on	X	
Cisco 12KXR devices		X
Cisco 3750ME devices		X
Cisco CRS-1 systems		X
Juniper M-Series routers		X

## JDK DST Timezone Update Tool for Cisco ANA

Cisco ANA comes with Java Development Kit (JDK) 1.4.2\_13. It is possible that the daylight saving time (DST) at your location has changed since JDK 1.4.2\_13 was released. If this is true for you, you can use the Sun JDK DST Timezone Update Tool to be current with the latest daylight saving time as published by Sun.

To use the Sun JDK DST Timezone Update Tool:

1. Download the latest version of the JDK US DST Timezone Update Tool from the Java.sun.com website. The current download URL is:  
<http://java.sun.com/javase/downloads/index.jsp>
2. Extract the tzupdater.jar file from the downloaded zip file and copy it to /tmp on each gateway and unit.

3. Perform the following steps on each gateway and unit:
  - a. Log into the machine as user sheer.
  - b. Stop all AVM processes.
  - c. Change to the /tmp directory.
  - d. Execute the following command:

```
java -jar tzupdater.jar -u -v
```
4. Restart the Cisco ANA system.

## Configuring Database Storage (Redo Logs)

If you are already running Cisco ANA 3.6, change the Oracle installation to write the logs on a different disk. For more information, see the *Cisco Active Network Abstraction Installation Guide, 3.6 Service Pack 4*.

## Online Help

The online help for Cisco ANA 3.6.4 has been tested using the following browsers:

- Microsoft Internet Explorer version 6
- Firefox version 2.0
- Avant Browser version 11, build 25

**Note**

The online help was not updated for Cisco ANA 3.6.4. The most current product documentation for Cisco ANA 3.6.4 is available on Cisco.com at:  
[http://www.cisco.com/en/US/products/ps6776/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps6776/tsd_products_support_series_home.html)

## Limitations and Restrictions

This section includes the following limitations and restrictions:

- [Cisco ANA NetworkVision, page 15](#)
- [Cisco ANA Fault Management, page 15](#)
- [Cisco ANA Workflow Editor, page 15](#)
- [Cisco ANA Workflow Editor and Floating User License, page 16](#)
- [OSPF, page 16](#)
- [HSRP, page 16](#)
- [ATM Topology Discovery, page 16](#)
- [Adaptive Polling, page 16](#)
- [BGP Neighbors, page 17](#)

## Cisco ANA NetworkVision

Cisco ANA NetworkVision, with a configured 512 MB of free nonvirtual memory per running instance, supports the following number of objects, links, and devices across all maps that are open:

- A maximum of 10000 objects; objects include devices, VPNs, Virtual Routing and Forwarding tables (VRFs), and sites.
- 12000 links
- 10000 tickets; if the same tickets are displayed in different maps, each instance is counted separately.

One map in Cisco ANA NetworkVision supports:

- A maximum of 8000 objects
- 10000 links
- 5000 tickets

The maximum number of maps that can be opened concurrently for Cisco ANA NetworkVision is five (the default) regardless of the number of devices, links, and tickets. The number of maps that can be opened concurrently can be modified as long as the overall number of links and devices per application does not exceed the maximum limits. For information about customizing the maximum number of maps, contact the Cisco Project Manager or Cisco Account Team.

## Cisco ANA Fault Management

The maximum number of open tickets (other tickets can be correlated to them) for the system is 5000. Although this number is configurable in the registry, we do not recommend increasing it. For a definition of an open ticket, see the [Cisco Active Network Abstraction User Guide 3.6 Service Pack 4](#). To avoid exceeding the maximum number of open tickets, we recommend that you close the tickets on time.




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**Note** Changes to the registry should only be carried out with the support of Cisco. For details, contact the Cisco Project Manager or Cisco Account Team.

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A *tickets capacity overflow* system alarm is generated when the maximum number of open tickets is exceeded. The alarm severity is defined as critical.

## Cisco ANA Workflow Editor

Do not include the characters underscore ( `_` ) or percent ( `%` ) in workflow template names when executing a workflow or referencing a subflow. In template names, these characters act as wildcards and represent the following:

- `_` indicates a single character.
- `%` indicates a zero or many characters.

If these characters are included in template names, the execution fails and the following message is displayed in the AVM 66 log:

```
"WARN [13 21:00:08,248] - dralasoftware.workflow - Task aborted. Task: 245886, Workflow:
245885 java.lang.IllegalArgumentException: Template AA_BB.template is ambiguous, templates
ids are: 245874 , 245873"
```

The following examples illustrate how workflow template names with these characters can lead to ambiguity if they are deployed together:

- The template name WFTLM\_MUESTRA.template leads to ambiguity with the WFTLM#MUESTRA.template when they are deployed together.
- The WFTLM%MUESTRA.template leads to ambiguity with the WFTLM####MUESTRA.template when they are deployed together.

The ambiguity occurs only when templates containing wildcard characters in their names are executed.

## Cisco ANA Workflow Editor and Floating User License

Users cannot open multiple Cisco ANA workflow sessions from the same PC when they are using the Floating User License.

## OSPF

OSPF networks are presented in Cisco ANA logical inventory. The current implementation was developed to present nonoverlapping interfaces so that, when a device has multiple interfaces with the same IP address and these interfaces participate in different OSPF networks, only one interface is displayed. For example, a device might have multiple interfaces that use the same IP address if it is configured for multiple VRFs.

This situation can occur when multiple OSPF processes are running on the device.

OSPF processes (OSPFService) do not have IMO representation in Cisco ANA.

## HSRP

For correlation to work, the path through which HSRP signaling passes must be modeled (must exist) in the system.

## ATM Topology Discovery

ATM topology discovery is performed in two phases:

1. Discovery matches active VCs and VPs on the ATM ports.
2. Discovery matches the traffic signatures of the VCs and VPs that were identified during the first phase.

ATM topology discovery is supported on topologies where the ports at either end of the connection are both configured with VCs or VPs. Discovery is not supported on ATM topologies where VPs are configured at one end and VCs are configured at the other end.

## Adaptive Polling

Adaptive polling is supported only for Cisco devices and the Juniper VNE.

## BGP Neighbors

- When both IP and VPN capabilities are enabled between BGP neighbors, only the VPN capability state is displayed in the MpBGP neighbors table.
- To support the BGP fault mechanism, each device must have a unique BGP router ID.

## Open Caveats in Cisco ANA 3.x

**Table 11** Open Caveats in Cisco ANA 3.x

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsu55709</a>	Pseudowire tunnels do not exist in VNE logical inventory for ME-6524	Cisco ME-6524 devices do not display pseudowire tunnels in VNE logical inventory when using the ipcore scheme.	None	3.6.4
<a href="#">CSCsu32051</a>	MAC address for Cisco CRS device 3.6 not modeled on port connected to Cisco 7609 device	The MAC address for a Cisco CRS-1 device running Cisco IOS XR 3.6 software is not modeled on the port connected to a Cisco 7609 device.	None	3.6.4
<a href="#">CSCsu80951</a>	Juniper LDP Session Up\Down trap without correlation	<p>The SNMP trap Juniper LDP Session Up/Down is generated when the value of jnxMplsLdpSesState leaves the operational(5) state.</p> <p>This situation occurs for:</p> <p>Type: NOTIFICATION-TYPE</p> <p>OID: 1.3.6.1.4.1.2636.4.4.0.4/1.3.6.1.4.1.2636.4.4.0.3</p> <p>Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).juniperMIB(2636).jnxTraps(4).jnxLdpTraps(4).jnxLdpTrapPrefix(0).jnxLdpSesDown(4)</p> <p>Module: JUNIPER-LDP-MIB</p>	Parent: jnxLdpTrapPrefix Prev sibling: jnxLdpSesUp	3.6.4
<a href="#">CSCsv08011</a>	BGP syslog for neighbor Down BFD adjacency down is received 6 times	When a link is down between a Cisco Catalyst 6506 device and a neighboring device, the syslog message is received more than once in EventVision.	None	3.6.4

**Table 11** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsv09729	Layer 2 encapsulation does not come up properly for T3 Controller	This situation occurs when: <ul style="list-style-type: none"> <li>• The T3 Controller mode is Serial.</li> <li>• Serial interfaces are configured on the T3/T1 instances.</li> </ul>	None	3.6.4
CSCsv15637	There are no links (need to switch on MAC-based discovery)	When CDP is not enabled, there are no links. MAC-based discovery needs to be enabled.	Manually enable MAC-based discovery by changing the waitForSpecificSignature entry to false under Site/agentdefaults/da/amsi/topology/common and enabling Ethernet-based topology discovery.	3.6.4
CSCsv16468	Cisco ANA does not present the interface when SONET interface changes	Cisco ANA does not present the interface when the SONET interface changes.	None	3.6.4
CSCsv16563	Cisco ANA presents ChassisAlarm traps as Enterprise Generic traps	Cisco ANA presents ChassisAlarm traps as Enterprise Generic traps.	None	3.6.4
CSCsv16567	Cisco ANA presents Flash traps as Enterprise Generic traps	Cisco ANA presents Flash traps as Enterprise Generic traps.	None	3.6.4
CSCsv23501	Cisco ANA presents Swact notification (Redundancy) as Generic trap (Cisco CRS-1)	Cisco ANA presents Swact notification (Redundancy) SNMP traps as Generic traps in EventVision.  The trap is ciscoRFSwactNotif.  To generate the ciscoRFSwactNotif trap, use the following MIB:  OID:.1.3.6.1.4.1.9.9.176.2.0.1	None	3.6.4

Table 11 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv23748</a>	Local switching entry up alarm is received twice in EventVision	This situation occurs when local switching is configured on a Cisco GSR router running version 3.6.1[00] toward two CE Cisco 7604 devices on different interfaces. When the first interface is shutdown/no shutdown, the local switching entry up alarm is received twice.  When the second interface of the Cisco GSR device is shutdown/no shutdown, the alarm is received correctly (only once).	None	3.6.4
<a href="#">CSCsv26746</a>	Cisco ANA presents vlanTrunkPortDynamicStatusChange trap as Generic trap	The trap vlanTrunkPortDynamicStatusChange appears as a generic trap in EventVision.	None	3.6.4
<a href="#">CSCsv26936</a>	Cisco ANA presents OSPF traps (ospfIfConfigError&ospfIfRxBadPackets) as Generic traps	Cisco ANA presents OSPF traps (ospfIfConfigError&ospfIfRxBadPackets) as Generic traps.	None	3.6.4
<a href="#">CSCsv31711</a>	Input and Output access-list parameters under the interface are missing	If you configure an access list, attach it to an interface, and then select <b>Logical Inventory &gt; Routing Entities &gt; Routing Entity &gt; IP Interfaces</b> , the access list entries for incoming or outgoing traffic are missing.	None	3.6.4
<a href="#">CSCsv31946</a>	CPU and memory process parameters are not presented at all (Cisco IOS XR)	In NetworkVision, if you right-click a device that is running Cisco IOS XR software and then choose <b>Tools &gt; CPU Usage</b> , the CPU and memory process parameters are not displayed.	None	3.6.4
<a href="#">CSCsv32188</a>	Path Tracer does not reach IP interface configured on L3 Link Agg on Cisco CRS-1	If you use Path Tracer on an interface that is configured for Layer 3 link aggregation on a Cisco CRS-1 device, the path does not reach the IP interface of the remote device.	None	3.6.4

Table 11 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv32272</a>	Standard access list entries are not shown for Cisco 3750ME	Standard access list entries configured on Cisco 3750ME devices are not displayed in the Cisco ANA interface.  When access list entries do not appear in Cisco ANA, you can view these entries on the device by using the <b>show access-lists</b> command.	To check access lists entries, enter the following command on the device:  <b>show access-lists</b>	3.6.4
<a href="#">CSCsv39730</a>	On Cisco 3750ME devices, one of the TRUNK ports is modeled as ACCESS	This situation occurs when you:  1. Run CARTS for the Cisco 3750ME device.  2. Compare the baseline with the resultant file.  The comparison reveals that the TRUNK port contains inconsistent information.	None	3.6.4
<a href="#">CSCsv39821</a>	Missing DataLinkAggregation info	Some of the DataLinkAggregation information is missing for Cisco 3750ME and Cisco 2950 devices. This situation occurs when you:  1. Run CARTS for the Cisco 3750ME device.  2. Compare the baseline with the resultant file.  The DataLinkAggregation information is missing.	None	3.6.4
<a href="#">CSCsv39839</a>	Some of the Juniper VNEs appear under Product Scheme	Some of the Juniper VNEs appear under the Product scheme even though they are supported by the ipcore scheme.  This situation occurs when you run the VEG tool. The results show the VNEs for some Juniper devices under the Product scheme instead of the ipcore scheme.	None	3.6.4
<a href="#">CSCsv44329</a>	Juniper device does not get connected to Ethernet cloud	Juniper M120 devices do not connect to the Ethernet cloud.	None	3.6.4

Table 11 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsv44393	Information missing for system description and element type	For Cisco 7609-S devices, the following fields do not contain complete information in NetworkVision: <ul style="list-style-type: none"> <li>System Description</li> <li>Element Type</li> </ul>	None	3.6.4
CSCsv44885	Maximum speed is incorrectly presented for the interfaces with UP state	Interfaces with the admin state UP and the oper state UP are shown with the incorrect maximum speed value of 0 (zero) instead the actual value.	None	3.6.4
CSCsv54612	Standard IP access list entries are missing in Cisco ANA for Cisco 7609-S devices	For Cisco 7609-S devices running Cisco IOS software versions 12.2(33)SRB4 and 12.2(33)SRC2, standard IP access list entries that are configured on these devices are not shown in NetworkVision.  The entries are returned if you enter the <b>show</b> command the device.	None	3.6.4
CSCsv57069	Card out syslog alarm is not correlated to Card out alarm on Cisco CRS-1	If you remove a Cisco CRS1-MSC-B controller card on a Cisco CRS-1 router, Cisco ANA receives the following syslog message: %PLATFORM-OIRD-5-OIROUT : OIR: Node 0/1/* removed.  Cisco ANA creates a <i>Card out syslog</i> alarm but does not correlate it to the <i>Card out</i> alarm.	None	3.6.4
CSCsv57775	Cisco GSR 12016: Module unsupported	The Cisco GSR 12016 fan tray is unsupported.	None	3.6.4
CSCsv67267	No description and no access-list entry in the IP interface for Cisco GSR and Cisco CRS devices	In NetworkVision, if you provide a description, configure an access list for a Cisco GSR or Cisco CRS-1 device, and then select <b>Logical Inventory &gt; Routing Entry &gt; IP Interface</b> , the interface description and the access-lists entries are not displayed.	None	3.6.4

**Table 11** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv70987</a>	StringIndexOutOfBoundsException in CiscoCatalystEthernetChannelsParser	When managing a Cisco 7204 router, the following Java exception occurs:  java.lang.StringIndexOutOfBoundsException: String index out of range: -1	None	3.6.4
<a href="#">CSCsv72802</a>	LDP protocol type received in NetworkVision is not followed by expedite	The wrong Label Distribution Protocol (LDP) status appears in inventory.  This occurs if you complete the following steps:  1. Create a new VNE for the affected device and open a map in NetworkVision with this device.  2. Open MPLS interfaces under the LSE table and enter <b>LDP</b> in the Distribution Protocol field.  3. Change the distribution protocol type to TDP on the device and confirm the change in NetworkVision.  4. Change the distribution protocol type to LDP on the device.	None	3.6.4
<a href="#">CSCsv73513</a>	Missing interface port channel entries	Interface port channels that are configured on a device do not appear in NetworkVision under Ethernet link aggregation.	None	3.6.4
<a href="#">CSCsv78147</a>	Removing card on Cisco GSR causes links to disappear	This situation occurs when the links between the Cisco GSR device and other devices are modeled and the card is removed.	None	3.6.4
<a href="#">CSCsv78230</a>	MPBGP section in the logical inventory shows only the local AS (R-1841)	The MPBGP section in logical inventory shows only the local AS (R-1841).	None	3.6.4
<a href="#">CSCsv79316</a>	Hardware type is incorrect on slot5 - subslot6 (WS-F6K-PFC3XBL)	The hardware type displayed is incorrect for Cisco WS-F6K-PFC3XBL subslot cards. It should be cevCat6kWsf6kpf3bx1.	None	3.6.4

**Table 11** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv79564</a>	Missing location for SNMP link down trap	If a link goes down on a device running Cisco IOS XR 3.6.1[00] software, EventVision does not display the location for the SNMP link down trap.	None	3.6.4
<a href="#">CSCsv82787</a>	No serial number on MSFC-2	Serial numbers for Multilayer Switch Feature Card 2 (MSFC-2) devices do not appear in physical inventory. Instead, the serial number for MSFC-2 devices is shown as 0.	None	3.6.4
<a href="#">CSCsv83274</a>	Error messages in the Services tab on web interface	When accessing the gateway using <a href="https://&lt;gateway_ip&gt;:1311/">https://&lt;gateway_ip&gt;:1311/</a> , the Services tab in the web interface displays error messages.	None	3.6.4
<a href="#">CSCsv85548</a>	Loopback shows a different value for Port Slot	Loopback shows a different value for Port Slot with Missing Pluggable Port.  For the port slot with missing pluggable port for OC3, the Loopback value is shown as OUT OF BOUNDS: -1. It should be shown as Unknown or empty.	None	3.6.4
<a href="#">CSCsv85897</a>	PLIM - Optic Ports added to physical inventory after extracting and reinserting a card	If you extract a card from a Cisco CRS-1 device and then reinsert it, PLIM - Optic Ports are added to the physical inventory for that card in NetworkVision.	None	3.6.4
<a href="#">CSCsv85962</a>	Missing Card Down ticket for Cisco GSR XR 3.7.1	On a Cisco GSR router running Cisco IOS XR 3.7.1 software, if a card goes down, Link Down tickets are issued instead of a Card Down ticket and three Link Down tickets that are correlated to the card.	None	3.6.4
<a href="#">CSCsv86641</a>	10-slot Gigabit Ethernet Card is modelled incorrectly on the SIP-800	Cisco CRS-1 devices running Cisco IOS XR 3.6.2 software with 10-slot 1 Gigabit Ethernet line cards are not being modelled correctly in Cisco ANA 3.6.4.	None	3.6.4
<a href="#">CSCsv88486</a>	Missing parameters on Serial WIC and missing DLCI table, on 1841 Router	Cisco 1841 routers are missing: <ul style="list-style-type: none"> <li>Parameters for the Serial WIC</li> <li>The DLCI table</li> </ul>	None	3.6.4

**Table 11** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsv88924	Missing FrameRelay traffic profiles at Logical-inv (R1841)	Logical inventory does not display FrameRelay traffic profiles for Cisco R1841 routers.	None	3.6.4
CSCsv89039	Modeling physical inventory takes too long with Cisco IOS 12.2(33)SRC2	Physical inventory modeling of Cisco devices running Cisco IOS 12.2(33)SRC2 software can take more than 3 hours to complete after you add a new VNE or change a software version.	None	3.6.4
CSCsv89171	No topology due to wrong port encapsulation in Cisco CRS-1 (HDLC instead of PPP)	For Cisco CRS-1 devices, due to the wrong encapsulation for a Packet-Over-SONET (POS) interface, no topology is discovered for that port although CDP neighbors are properly discovered.	To work around this issue, create a static link.	3.6.4
CSCsv89466	No expediting of BGP - BFD status on Cisco 7604 device	If you shut down an interface on a Cisco GSR device, the following occurs on Cisco 7604 devices: <ul style="list-style-type: none"> <li>• BGP BFD adjacency goes down.</li> <li>• BFD status is not expedited.</li> </ul>	None	3.6.4
CSCsv89517	VNE session to device remains up although VNE was removed	If you remove a VNE from its AVM, its session with the Cisco ANA gateway remains. This situation occurred once and is not reproducible.	None	3.6.4
CSCsv90981	VLANs above LAG links in switches are incorrectly modeled	Elements of type IEEE802 are connected as sons of VlanInterface, thus creating a class cast exception in IEEE0idToPcTranslator.	None	3.6.4
CSCsv93997	AVM 0 queue and memory size should be enlarged to prevent message drop	The AVM 0 queue shuts down with an out-of-memory message when many VNEs exist.	Using the runRegTool command, set the value of AVM 0 memory to the maximum value in avm99.xml.	3.6.4
CSCsv94408	Cisco 7201/7606 comes up with "Device unsupported" service alarm	If you install Cisco ANA 3.6.4 and then use a network map that contains Cisco 7201 and Cisco 7606 devices, Device Unsupported tickets are generated even though no problem is detected in the physical or logical inventory.	None	3.6.4

Table 11 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv94578</a>	Installation command <b>update.pl -r</b> on 3.6.0	If you issue <b>the update.pl -r</b> command on a Cisco ANA 3.6.0 installation, it runs without an error message even though it should issue one.	None	3.6.4
<a href="#">CSCsv96441</a>	Failed to model GSR-IOX inventory from recordings	Telnet output of recordings for Cisco GSR devices running Cisco IOS XR software appears to be corrupted due to appearance of unexpected characters. As a result, the recordings cannot be used for device modeling in Cisco ANA.	None	3.6.4
<a href="#">CSCsv96994</a>	SPA-4XT3_E3 slot has wrong parameters on Cisco CRS-1 router	Cisco ANA displays the wrong parameters for SPA-4XT3_E3 slots in physical inventory.  It displays "missing pluggable port" even though the slot is a coaxial port and it is connected.	None	3.6.4
<a href="#">CSCsv97682</a>	Cisco CRS-1 router running Cisco IOS XR 3.6.2 reports unsupported PEM module	In Cisco ANA 3.6.4, Cisco CRS-1 routers running Cisco IOS XR 3.6.2 software report an unsupported PEM module, which leaves the device in the Incomplete state.	None	3.6.4
<a href="#">CSCsv97773</a>	Power supply down syslogs appear as generic	If you disconnect the power cord for a Cisco 7613 device, the Power supply down syslog message in Cisco ANA appears as generic.	None	3.6.4
<a href="#">CSCsv97796</a>	Power supply down trap appears as generic	If you disconnect the power cord for a Cisco 7613 device, the Power supply down trap in Cisco ANA appears as generic.	None	3.6.4
<a href="#">CSCsw16414</a>	Wrong physical inventory for 7600-SIP-600 card	For Cisco 7606 devices running Cisco IOS 12.2(33) SRB3 software, the Gigabit Ethernet port appears under Slot 2: Card - 7600-SIP-600 instead of Subslot 0: Subcard - SPA-10X1 GE-V2	None	3.6.4

**Table 11**      **Open Caveats in Cisco ANA 3.x (continued)**

Identifier	Title	Impact	Workaround	Release
CSCsw16479	Wrong port type for Gigabit Ethernet on Cisco 7606 card WS-SUP720-3B	For Cisco 7606 devices running Cisco IOS 12.2(33) SRB3 software, the port type for Cisco WS-SUP720-3B cards is displayed as RJ45 instead of fiber optic.	None	3.6.4
CSCsw18280	VNE “Maintenance” status missing	The VNE Maintenance status is missing in the Cisco ANA Manage client.  This situation occurs for VNEs for Cisco 7206VXR router reflectors that are running BGP and Cisco IOS software version 12.4(15)T1 and that are modeled with the Product scheme.	None	3.6.4
CSCsw18974	When moving VNE between AVMs, “AVM ID” is listed instead of “AVM Key”	If you move a VNE between AVMs, the AVM ID is listed instead of the AVM Key.	None	3.6.4
CSCsw18993	The GUI Clients for 3.6.4 appear with the wrong version (3.6.0)	All GUI clients display version 3.6.0 instead 3.6.4.	None	3.6.4
CSCsw19354	Duplicate link down appears on card down scenario for Cisco CRS-1 with Cisco IOS XR 3.7.1	If a card goes down on a Cisco CRS-1 device running Cisco IOS XR 3.7.1, a duplicate <i>link down due to oper down</i> ticket appears in NetworkVision.	None	3.6.4
CSCsw19551	No “confirm password” when changing DB password of user sheer	When you run the <b>DatabasePasswordChange.pl</b> command and enter a new database password for user sheer, the script does not prompt you to confirm the password. If the password is incorrect, the wrong password is written to the registry and, after a restart, the gateway cannot be accessed.	Run the <b>DatabasePasswordChange.pl</b> command again and enter the correct password.	3.6.4
CSCsw19770	Layer 2 subinterfaces on 10-slot Gigabit Ethernet ports are missing	For Cisco CRS-1 devices running Cisco IOS XR 3.7 software, Layer 2 subinterfaces on 10-slot Gigabit Ethernet ports are not displayed in the GUI.	None	3.6.4

**Table 11** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsw22309</a>	Layer 2 tunnel name is incorrect in case of Tail/Mid	Layer 2 tunnel names are occasionally incorrect for midpoint and tailend tunnels in Cisco CRS-1 VNEs running Cisco IOS XR 3.7	Use the tunnel ID to identify the correct tunnel number.	3.6.4
<a href="#">CSCsw22372</a>	Missing Layer 2 tunnels of role Head due to bug in RegExp	Layer 2 tunnel names are incorrect for head tunnels when the tunnel ID is greater than 9. This situation occurs in Cisco CRS-1 VNEs running Cisco IOS XR 3.7	None	3.6.4
<a href="#">CSCsw29524</a>	Slot numbers for Cisco 3750ME and Cisco 3400 are shown as 10000, 10001, and 10002	The slot numbers for Cisco 3750ME and Cisco 3400 devices are shown as 10000, 10001, and 10002.	None	3.6.4PP
<a href="#">CSCsq10616</a>	Media type shown incorrectly as fiber optic for an RJ45 port	The media type is shown incorrectly as fiber optic for an RJ45 port for a Gigabit Ethernet port in a CEF720 48 port 10/100/1000mb Ethernet WS-X6748-GE-TX card.	None	3.6.3
<a href="#">CSCsq18550</a>	Port entry becomes blank in physical inventory after inserting an SFP in Cisco 3750ME	After inserting a Small Form-Factor Pluggable (SFP) in the port and waiting for the polling cycle to complete, Cisco ANA: <ul style="list-style-type: none"> <li>Does not display GigabitEthernet1/0/2 in the tree.</li> <li>Displays one connector with a blank line.</li> </ul> This is refresh problem; after waiting a few polling cycles, there is no blank connector.	None	3.6.3
<a href="#">CSCsq29089</a>	Static rule is shown as Direct in Cisco 6500 VSS	For Cisco 6500 VSS devices, the Static Null0 route is shown as Direct under the Routing Entity in the Cisco ANA GUI.	None	3.6.3
<a href="#">CSCsq35142</a>	Description of 7600-MSFC4 is incorrect for 7609S	The description of Cisco 7600 MSFC4 Daughterboard Rev. 1.1 card is incorrect.	None	3.6.3
<a href="#">CSCsq37960</a>	Module name and hardware type discovered as Unknown Module	The name and hardware type shown as Unknown in the NetworkVision GUI.	None	3.6.3

Table 11 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsq45883</a>	6500 VSS Shelf out and Card out alarms are generated when redundancy force-switchover	When Cisco 6500 VSS systems are issued the <b>redundancy force-switchover</b> command, the force-switchover occurs and the active switch is moved to Stand-By state and vice versa.  In the Cisco ANA GUI, the Shelf out and Card out alarms are generated.	None	3.6.3
<a href="#">CSCsq45903</a>	6500 VSS Interface oper. state is down in active switch	When Cisco 6500 VSS systems are issued the <b>redundancy force-switchover</b> command, the Interface oper. state goes down in the active switch.	None	3.6.3
<a href="#">CSCsq45966</a>	6500 VSS Module status shown as OUT in active switch	When Cisco 6500 VSS systems are issued the <b>redundancy force-switchover</b> command, the Module status is shown as OUT in the active switch.	None	3.6.3
<a href="#">CSCsq55690</a>	BGP neighbor down location is corrupted in alarm properties	The BGP neighbor down syslog location is corrupted in alarm properties.	None	3.6.3
<a href="#">CSCsq57683</a>	Ticket is created for each SFP after card has been removed from Cisco CRS-1	When removing a card from a Cisco CRS-1 system containing a shared port adapter (SPA) with 5 SFPs, each of the 15 related SFP 'cefc FRU removed' traps is presented as a ticket in NetworkVision.	None	3.6.3
<a href="#">CSCsq57705</a>	Card down event for the cevCpuCrs1SPLC is not correlated to card out	When removing a card from a Cisco CRS-1 system, a Card down ticket is created for the cevCpuCrs1SPLC module and is not correlated to a card-out event.	None	3.6.3
<a href="#">CSCsq81705</a>	Cisco 6509: Wrong information is shown for GRE tunnel	For Cisco 6509 devices, the wrong source is shown for a GRE tunnel.	None	3.6.3
<a href="#">CSCsq86055</a>	Cisco 7613: Module status shows as Unknown	For Cisco 7613 devices, Cisco ANA NetworkVision shows the module status as Unknown for an SPA carrier card.	None	3.6.3
<a href="#">CSCsr68375</a>	3.6.3.0.9 - 10GE Ports missing for Cat4948 devices in Physical Inventory	The VNE for the Cisco 4948 device does not discover the physical chassis.	None	3.6.3

**Table 11** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsq47807</a>	VPN topology in NetworkVision in ANA3.6 SP2 shows duplicate VPN ports	In Cisco ANA 3.6 SP2, NetworkVision shows duplicate VPN ports in the VPN technology.	In NetworkVision, expand the VPN tree view and delete all duplicates (the entries marked “x”). Save the resulting map ( <b>File &gt; Save</b> ).	3.6.2
<a href="#">CSCsk36749</a>	CRS-1, SDR owner displays both its own physical entities and those of SDR	Cannot differentiate between SDR entities and SDR-Owner entities in the entPhysicalTable MIB.	None	3.6.1

## Resolved Caveats - Cisco ANA 3.6.4

**Table 12** Resolved Caveats - Cisco ANA 3.6.4

Identifier	Summary
<a href="#">CSCso96701</a>	Parsing rules which use entity-physical-index fail on a 7609 device
<a href="#">CSCsq01772</a>	Ports not displaying STP information for Riverstone devices
<a href="#">CSCsq35431</a>	19 ports are modeled in ESM20 card in 7609S instead of 20 ports
<a href="#">CSCsq39839</a>	Duplicate entry for GigE 5/2 for Sup card and 5/1 is missing in 7609
<a href="#">CSCsq81299</a>	LAG on CRS-1 doesn't model port
<a href="#">CSCsq94047</a>	MaxAge Value is wrong for Riverstone STP
<a href="#">CSCsm23316</a>	BGP Link Down/Up Alarm description has wrong IP Address
<a href="#">CSCsm29938</a>	VNE polling status/configuration can't be changed more than once
<a href="#">CSCsm30001</a>	Can't create static link between cloud and device via the ANA Manage
<a href="#">CSCsm67035</a>	CRS - BGP neighbor loss syslog does not correlate to BGP Link Down alarm
<a href="#">CSCsq93222</a>	CRS-1 physical inventory modeling does not happen after reinsertion
<a href="#">CSCsr08233</a>	Upgrade from 3.6.0 to 3.6.3 -AVM100 allocated memory
<a href="#">CSCso37828</a>	Adding support for unsupported utility modules of Cisco devices

## Related Documentation

### User Guides

[Cisco Active Network Abstraction Documentation Guide, 3.6 Service Pack 4](#)

[Cisco Active Network Abstraction User Guide, 3.6 Service Pack 4](#)

[Cisco Active Network Abstraction MPLS User Guide, 3.6 Service Pack 4](#)

*Cisco Active Network Abstraction Technology Support and Information Model Reference Manual, 3.6 Service Pack 4*

*Cisco Active Network Abstraction VNE Reference Guide 3.6, Service Pack 4*

## Administrator Guides

*Cisco Active Network Abstraction Installation Guide, 3.6 Service Pack 4*

*Cisco Active Network Abstraction Administrator Guide, 3.6 Service Pack 4*

*Cisco Active Network Abstraction Error Messages, 3.6 Service Pack 4*

*Cisco Active Network Abstraction Shell User Guide, 3.6 Service Pack 4*

*Cisco Active Network Abstraction High Availability User Guide, 3.6 Service Pack 4*

## Developer Guides

*Cisco Active Network Abstraction Customization User Guide, 3.6 Service Pack 4*

## Obtaining Documentation and Submitting a Service Request

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

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