



# Cisco Active Network Abstraction 3.6.5 Release Notes

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Revised: February 1, 2011, OL-18659-03

These release notes support the release of Cisco Active Network Abstraction (Cisco ANA) 3.6.5.



**Note**

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See Cisco.com for the most up-to-date version of the [Release Notes for Cisco Active Network Abstraction 3.6.5](#).

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## Contents

This document includes the following topics:

- [Introduction, page 2](#)
- [New Features in Cisco ANA 3.6.5, page 3](#)
- [Important Notes, page 8](#)
- [Limitations and Restrictions, page 16](#)
- [Open Caveats in Cisco ANA 3.x, page 19](#)
- [Resolved Caveats - Cisco ANA 3.6.5, page 29](#)
- [Related Documentation, page 30](#)
- [Obtaining Documentation and Submitting a Service Request, page 31](#)



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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 3.6.5

The following new features were added in Cisco ANA 3.6.5:

- Support for Cisco ASR 1000 series Aggregation Services Routers with Cisco IOS XE software.
- Support for Cisco ASR 9000 series Aggregation Services Routers with Cisco IOS XR 3.7.2 software.
- Additional support for Cisco ME3400E devices.
- Support for the following modules for Cisco ASR 1000 series routers:
  - Cisco ASR1000-ESP5
  - Cisco SPA-2X1GE-V2
  - Cisco SPA-8X1FE-TX-V2
  - Cisco ASR1000-SIP10
  - Cisco SPA-1X10GE-L-V2
  - Cisco ASR1000-RP1
  - Cisco ASR1006-PWR-AC
  - Cisco XFP-10GLR-OC192SR
  - Cisco SFP-GE-S
- Support for the following modules for the Cisco ASR 9000 series routers:
  - Cisco A9K-RSP-4G-HDD
  - Cisco A9K-4T-B
  - Cisco A9K-40GE-B
  - Cisco ASR-9010-FAN
  - Cisco A9K-3KW-AC
  - Cisco A9K-40GE-E
  - Cisco SFP-GE-S
- Additional Cisco IOS and Cisco IOS XR software version support.
- Support for the Sun T5220 system as a Cisco ANA gateway mid-range server.
- Additional module support for the following devices:
  - Cisco ME3400 series devices
  - Cisco Catalyst 3750 Metro Series devices
  - Cisco 7600 series devices
- For Cisco ASR 1000 devices, Session Border Control (SBC) service.
- Discovery and modeling of pluggable Gigabit Interface Converter (GBIC), Small Form-Factor Pluggable (SFP), XENPAK, and XEP transceivers. For details, see [Pluggable Transceiver Support, page 7](#).
- Maximum transmission unit (MTU) information for Fast Ethernet, Gigabit Ethernet, and 10 Gigabit Ethernet interfaces on Cisco 3550, ME3400, 3750ME, 6509, and 7609-S switches.

- Documentation updates for:
  - A new script that enables bulk Virtual Network Element (VNE) creation. For more information, see the [Cisco Active Network Abstraction 3.6.5 Administrator User Guide](#).
  - BQL scripting examples for adding multiple VNEs at the same time. For more information, see the [Cisco Active Network Abstraction 3.6.5 Customization User Guide](#).
- New Cisco ANA 3.6.0 postinstallation script to fix installation problems associated with Oracle 10G software and Cisco ANA schemas.



**Note** This new postinstallation script is to be used only if you are installing Cisco ANA 3.6.0 for the first time. For more information, see [Cisco ANA 3.6.0 Postinstallation Script, page 8](#).

- Command Builder enhancements for importing or deleting multiple commands at the same time.
- Various bug resolutions.
- Consolidation of user documentation as follows:
  - The *Cisco Active Network Abstraction High Availability User Guide* has been incorporated into the [Cisco Active Network Abstraction 3.6.5 Administrator User Guide](#).
  - The *Cisco Active Network Abstraction Shell User Guide* has been incorporated into the [Cisco Active Network Abstraction 3.6.5 Customization User Guide](#).
  - The *Cisco Active Network Abstraction Error Messages Guide* has been incorporated into the [Cisco Active Network Abstraction 3.6.5 User Guide](#).

For more information about the documentation provided with this release, see [Related Documentation, page 30](#).

## New VNEs Introduced

Table 1 identifies the VNE device support introduced with Cisco ANA 3.6.5.

**Table 1 Cisco ANA 3.6.5 VNEs**

Vendor	Device Classification	Device Family	Device Type/Product No.
Cisco	Router	ASR	1002
			1006
Cisco	Router	ASR	9010
Cisco	Switch	ME3400E	ME3400EG-2CS
			ME3400EG-12CS
			ME3400E-24TS
Cisco	Switch	6500	6509E

For details on the support provided for each VNE, see the [Cisco Active Network Abstraction 3.6.5 VNE Reference Guide](#).

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 3.6.5 VNE Reference Guide](#).

## Enhanced Functionality for VNEs

No functionality was enhanced for existing VNEs in Cisco ANA 3.6.5.

## Service Alarms Added

Cisco ANA 3.6.5 has added standard service alarms for Cisco ASR 1000 series and 9000 series devices. For more information about event and alarm configuration parameters, see the [Cisco Active Network Abstraction 3.6.5 User Guide](#).

## Trap Support Added

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

- [V2 Traps - Cisco IOS Software, page 5](#)
- [V2 Traps - Cisco ASR Devices, page 5](#)

### V2 Traps - Cisco IOS Software

**Table 2** Cisco IOS V2 Traps

Trap Name	Trap OID	Short Description
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	Round-trip time (RTT) connection change
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	RTT verify error
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	RTT Label Path Discovery (LPD)
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	RTT LPD group status

### V2 Traps - Cisco ASR Devices

**Table 3** Cisco ASR Device V2 Traps

Trap Name	Trap OID	Short Description
ciscoNtpSrvStatusChange	1.3.6.1.4.1.9.9.168.0.1	Network Time Protocol (NTP) server status changes to Unknown
		NTP server status changes to notRunning
		NTP server status changes to notSynchronized
		NTP server status changes to syncToLocal
		NTP server status changes to syncToRefclock
		NTP server status changes to syncToRemoteServer
csbAdjacencyStatus	1.3.6.1.4.1.9.9.658.0.3	Cisco SBC adjacency state up trap
		Cisco SBC adjacency state down trap
		Cisco SBC adjacency state informational trap

**Table 3** Cisco ASR Device V2 Traps (continued)

Trap Name	Trap OID	Short Description
csbDynamicBlackListEvent	1.3.6.1.4.1.9.9.658.0.2	Cisco SBC dynamic blacklist trap
csbH248ControllerStatus	1.3.6.1.4.1.9.9.658.0.9	Cisco SBC H248 controller state up trap
		Cisco SBC H248 controller state down trap
		Cisco SBC H248 controller state informational trap
csbRadiusConnectionStatus	1.3.6.1.4.1.9.9.658.0.7	Cisco SBC RADIUS connection state up trap
		Cisco SBC RADIUS connection state down trap
		Cisco SBC RADIUS connection state informational trap
csbServiceStateEvent	1.3.6.1.4.1.9.9.658.0.4	Cisco SBC service state up trap
		Cisco SBC service state down trap
		Cisco SBC service state informational trap
csbSLAViolationRev1	1.3.6.1.4.1.9.9.658.0.10	Cisco SBC Service Level Agreement (SLA) violation off trap
		Cisco SBC SLA violation on trap
		Cisco SBC SLA violation informational trap
csbSourceAlertEvent	1.3.6.1.4.1.9.9.658.0.1	Cisco SBC source alert off trap
		Cisco SBC source alert on trap
		Cisco SBC source alert informational trap
csbSystemCongestionAlarmEvent	1.3.6.1.4.1.9.9.658.0.5	Cisco SBC system congestion cleared trap
		Cisco SBC system congestion down trap
		Cisco SBC system congestion informational trap
dot1agCfmFaultAlarm	1.0.8802.1.1.3.0.1	dot1ag Connectivity Fault Management (CRM) fault alarm
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	Round-trip time (RTT) connection change
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	RTT Label Path Discovery (LPD)
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	RTT LPD group status
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	RTT verify error
topologychange	1.3.6.1.2.1.17.0.2	Spanning tree topology changed
warmStart	1.3.6.1.6.3.1.1.5.2	Warm start trap

## Syslog Support Added

Table 4 identifies the syslog support added in this release. The new syslog support is for Cisco ASR devices.

**Table 4** Cisco ASR Syslog Support Added

Syslog Name	Description	Severity
PLATFORM-PWRMON-4-OIR	Power supply inserted.	Clearing
	Power supply removed.	Major
IP-VRRP-6-INFO_STATECHANGE	Backup to Master change.	Informational
	Master to Backup change.	Informational

## Pluggable Transceiver Support

Cisco ANA now supports three-level hierarchical discovery and modeling of pluggable transceiver modules on Cisco equipment. The hierarchy looks like this:

```
|---The Container object
  |---The Module, such as an SFP container
    |---The Port, such as an SFP or GBIC port
```

Table 5 identifies the Cisco network elements and pluggable transceivers supported in Cisco ANA 3.6.5.

**Table 5** Supported Network Elements and Transceivers

Network Elements	Transceivers
Cisco Catalyst ME-C3750-24TE-M switch	GLC-LH-SM, SFP-GE-L (DOM) <sup>1</sup>
Cisco Metro Ethernet Access Switches ME-3400G-2CS-A, ME-3400G-12CS-D, and ME-3400G-12CS-A	GLC-LH-SM, SFP-GE-L (DOM) <sup>1</sup>
Cisco Catalyst 6509-NEB Switch	WS-G5486
Cisco Catalyst 6509-NEB-A Switch, Cisco 7609-S Router	GLC-LH-SM, SFP-GE-L (DOM), XFP-10GLR-OC192SR, XENPAK-10GB-LR
Cisco CRS-1 single-shelf system CRS-16/S	CRS-XENPAK10GB-LR

1. Transceivers GLC-LH-SM and SFP-GE-L (DOM) are displayed in Cisco ANA as 1000BaseLX SFP only. For more information, see [CSCsv95130](#).

Cisco ANA uses objects from CISCO-ENTITY-VENDORTYPE-OID-MIB to physically discover and model the supported transceivers. For details on the MIB objects, contact Cisco Professional Services.

Cisco ANA provides the following property information for the supported pluggable modules:

- Pluggable port type (GBIC, SFP, XFP, X2, XENPAK)
- Media type (RJ45, Fiber Optic)
- Product ID
- Serial number

# Important Notes

This section includes the following topics:

- [Installation Notes, page 8](#)
- [Solaris 10, page 9](#)
- [Solaris Services and Components, page 12](#)
- [Using Cisco CRS-1 VNEs, page 14](#)
- [Supported Schemes, page 14](#)
- [JDK DST Timezone Update Tool for Cisco ANA, page 15](#)
- [Configuring Database Storage \(Redo Logs\), page 15](#)
- [Online Help, page 15](#)

## Installation Notes

This section includes the following topics:

- [Cisco ANA 3.6.0 Postinstallation Script, page 8](#)
- [Memory Consumption, page 8](#)
- [Generating SSH Keys, page 9](#)
- [Backward Compatibility, page 9](#)

For installation procedures, see the [Cisco Active Network Abstraction 3.6.5 Installation Guide](#).

Cisco ANA 3.6.5 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 3.6.5 installation script.

## Cisco ANA 3.6.0 Postinstallation Script

Beginning with version 3.6.5, Cisco ANA provides a postinstallation script that fixes installation problems associated with Oracle 10G software and Cisco ANA schemas.

This script is to be used only if you are installing Cisco ANA 3.6.0 for the first time. For detailed instructions on using this script, see the gateway installation chapter in the [Cisco Active Network Abstraction 3.6.5 Installation Guide](#).

## 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 [Enhanced Functionality for VNEs, page 5](#). 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 3.6.5 Installation Guide](#).

## Backward Compatibility

Note the following with regard to backward compatibility of Cisco ANA 3.6.5 with existing installations of Cisco ANA 3.6:

- Before installing Cisco ANA 3.6.5, review the Best Practices for Integration BQL Parsing chapter in the [Cisco Active Network Abstraction 3.6.5 Customization User Guide](#) 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 3.6.5 is Solaris 10. Cisco ANA 3.6.5 is compatible with the latest patch release as published by Sun on January 18, 2008 (Cluster patch ID Generic\_120011-14). [Table 6](#) identifies the patches included in this patch release.

**Table 6** 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

**Table 6 Sun Patch Release (January 18, 2008) (continued)**

<b>Patch Number</b>	<b>Patch Number</b>
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
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

**Table 6** Sun Patch Release (January 18, 2008) (continued)

Patch Number	Patch Number
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
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 7 lists the Solaris services and components that Cisco ANA uses and that must not be removed.

**Table 7** 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 8 lists the product services that are installed with Cisco ANA.

**Table 8** 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_config	1101 (TCP)	—	—	SSH
webserver	Serves the client Web Start and the Diagnostics Tool with graphs	utils/apache/conf/sheer.conf	1310, 1311 (TCP)	—	—	HTTP
Machine interface	BQL machine-to-machine interface	—	9002 (TCP)	—	Java	—
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 following 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 9](#) identifies the schemes used by device type.

**Table 9 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 ASR 1000 series devices		X

**Table 9** Schemes Used by Device Type (continued)

Device Types	Product Scheme	ipcore Scheme
Cisco ASR 9000 series routers		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 3.6.5 Installation Guide](#).

## Online Help

The online help for Cisco ANA 3.6.5 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 3.6.5. The most current product documentation for Cisco ANA 3.6.5 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 16](#)
- [Cisco ANA Fault Management, page 17](#)
- [Cisco ANA Workflow Editor, page 17](#)
- [OSPF, page 18](#)
- [HSRP, page 18](#)
- [ATM Topology Discovery, page 18](#)
- [Adaptive Polling, page 18](#)
- [BGP Neighbors, page 18](#)

### 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 3.6.5 User Guide](#). To avoid exceeding the maximum number of open tickets, we recommend that you close the tickets on time.



**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.

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

The following sections provide important information for working with Cisco ANA Workflow Editor:

- [Workflow Editor Template Naming Conventions, page 17](#)
- [Workflow Editor and Floating User Licenses, page 17](#)
- [Workflow Editor Attribute Types, page 18](#)

### Workflow Editor Template Naming Conventions

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] - dralasoft.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.

### Workflow Editor and Floating User Licenses

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

## Workflow Editor Attribute Types

By default, all attributes in Workflow Editor are of the type String. To use another attribute type, such as Integer, set the flag `use-workflow-string-param-casting` to true in `/export/home/sheer4/Main/registry/workflowavm.xml`. In `workflowavm.xml`, the flag `use-workflow-string-param-casting` appears under the *workflow* key.

After you change this flag to true, you can use attribute types other than String.

## 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 10** Open Caveats in Cisco ANA 3.x

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv78230</a>	MPBGP section in logical inventory shows only the local Cisco ASR 1841 router.	The Multiprotocol BGP (MPBGP) section in logical inventory shows only the local Cisco ASR device instead of showing the BGP peer details.  This situation occurs when a BGP peer is configured on the device.	None	3.6.5
<a href="#">CSCsw47698</a>	FRU traps do not correlate to card down on Cisco GSR devices running Cisco IOS XR 3.7.1	When a card is removed from Cisco GSR devices running Cisco IOS XR 3.7.1 software, the following Field replaceable unit (FRU) traps are not correlated under the Card Out ticket: <ul style="list-style-type: none"> <li>• cefc FRU removed/inserted</li> <li>• cefc module oper status down/up</li> </ul>	None	3.6.5
<a href="#">CSCsx34199</a>	Cisco 3750ME: Cisco GBICs SFP-GE-L and GLC-LH-SM are not displayed in Cisco ANA NetworkVision	If the following GBICs are inserted into a Gigabit Ethernet port on a Cisco 3750ME device, they are displayed in NetworkVision: <ul style="list-style-type: none"> <li>• SFP-GE-L</li> <li>• GLC-LH-SM GBIC</li> </ul>	None	3.6.5
<a href="#">CSCsx46568</a>	Cisco ASR 9000: Hardware Type shown as Unknown	For Cisco ASR 9010 devices, NetworkVision physical inventory displays A9K-RSP-HDD in the Hardware Type field instead of the correct value of A9K-RSP-4G.	None	3.6.5
<a href="#">CSCsx64290</a>	Cisco ME3400 devices: Wrong VlanInterface Mode when Ethernet port is down	For Cisco ME3400 devices, if a Gigabit Ethernet port that is configured with dot1q tunneling goes down, NetworkVision displays Access instead of Dot1q-Tunnel for the VlanInterface mode.	Enter the following command:  <b>show dot1q-tunnel</b>	3.6.5

**Table 10** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsx64346	MPLS 13 VPN vrfDown trap does not correlate to link down alarm	When a link is shut down on a port configured with MPLS 13 VPN VRF, a separate <i>mpls 13 vrf Down Trap</i> ticket is created instead of being correlated to the link down service alarm.	None	3.6.5
CSCsx78710	Cisco ASR1004 routers: A few SFP values appear as “yyyyyyyyyyyyyyyyy”	For Cisco ASR 1004 routers, if the Part ID and Description fields for an SFP are empty, Cisco ANA displays yyyyyyyyyyyyyyy for their value in NetworkVision.	None	3.6.5
CSCsx93552	Cisco ME3400 devices: Incorrect type shown for static route entry under routing table	For Cisco ME3400 devices, the static route entry in the logical inventory routing table displays Indirect instead of Static.	None	3.6.5
CSCsx93712	Some BGP links are missing in the Cisco ANA GUI	In an environment using MPLS, some BGP links are not displayed in the Cisco ANA GUI although all links are present on the VNE.	Restart AVM 11 by entering the following command: <code>mc.csh localhost 8099 bsm.restartAvm 11</code>	3.6.5
CSCsx93931	Cisco GSR XR 3.6.2: Module XFP-10GLR-OC192SR is not displayed in Cisco ANA	For Cisco GSR XR devices running Cisco IOS XR 3.6.2 software, Cisco XFP-10GLR-OC192SR modules inserted into TenGigE0/2/1/0 slots are not displayed in NetworkVision.	None	3.6.5
CSCsx99930	EventVision froze after two weeks	The EventVision GUI froze after it was open continuously for two weeks.	Close and restart EventVision.	3.6.5
CSCsy03465	Cisco ASR 9010 routers: A few interfaces are missing from physical inventory	The following interfaces do not appear in Cisco ANA physical inventory in NetworkVision for Cisco ASR 9010 devices: <ul style="list-style-type: none"> <li>• TenGigE0/0/0/1</li> <li>• TenGigE0/0/0/2</li> </ul>	None	3.6.5
CSCsy09485	Cisco GSR-XR devices: Cisco ANA does not display the pseudowire container configured at device	For Cisco GSR XR devices running Cisco IOS XR 3.6.2 software, a configured pseudowire is not displayed in NetworkVision as a container.	None	3.6.5

**Table 10** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsy10684</a>	Cisco GSR-XR devices: When a Gigabit Ethernet port is down, OSPF is shown as if it were up	For Cisco GSR XR devices running Cisco IOS XR 3.6.2 software, when a Gigabit Ethernet port is down, Open Shortest Path First (OSPF) Networks Traffic Descriptor Container Properties are the same as when the port is up.	None	3.6.5
<a href="#">CSCsy26233</a>	Label switching protocol is not refreshed in LSE table	When changing the MPLS label switching protocol on an interface from Label Distribution Protocol (LDP) to Tag Distribution Protocol (TDP), the LSE table is not refreshed for protocol and state.  This situation occurs when running an LDP session with a neighbor.	Wait for the next polling period for the table to refresh.	3.6.5
<a href="#">CSCsy31399</a>	Wrong hardware type value for POS modules in Cisco 12000 series device	For Packet-Over-SONET (POS) modules in Cisco 12000 series devices, NetworkVision physical inventory displays cevGsrE48Atm4oc3SmIrSc in the Hardware Type field instead of the correct value of cevModuleGsrType.155.	None	3.6.5
<a href="#">CSCsy31468</a>	Power supply and fan are not modeled for Cisco 12000 series devices	NetworkVision physical inventory does not display power supply units or fans for Cisco 12000 series devices.	None	3.6.5
<a href="#">CSCsy31691</a>	Chassis description and serial number are not populated for Cisco 3750ME Ichassis	NetworkVision physical inventory does not display a chassis description or serial number for Cisco 3750ME devices.	None	3.6.5
<a href="#">CSCsy31695</a>	Power supply and fan are not modeled for Cisco ME3400 devices	NetworkVision physical inventory does not display power supply units or fans for Cisco ME3400 devices.	None	3.6.5

Table 10 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsy31701	Wrong physical modeling for Cisco CRS-1 devices running Cisco IOS XR software version 3.8.0.29I	The physical modeling is incorrect for Cisco CRS-1 devices running Cisco IOS XR 3.8.0.23I software.  This situation occurs because the device response to the Entity MIB contains the module information before the chassis information.	None	3.6.5
CSCsy31898	Flash Device Size is 0 in ImanagedElement of Cisco 12000 series device	In NetworkVision, the Flash Device Size field displays a value of 0 (zero) for Cisco 12000 series devices.	None	3.6.5
CSCsy31936	DRAM Used and DRAM Free memory are not populated for Cisco 12000 series devices	NetworkVision does not display the fields for DRAM Used and DRAM Free memory for Cisco 12000 series devices.	None	3.6.5
CSCsy34272	Flash device size attribute is missing in ImanagedElement of Cisco 4948 device	For Cisco 4948 devices, the flash device size attribute is not displayed in ImanagedElement in NetworkVision.	None	3.6.5
CSCsy39552	Riverstone: A few entries are missing in the IP Interface table	The following information is incorrect in NetworkVision logical inventory for Riverstone devices: <ul style="list-style-type: none"> <li>The IPVOZMETRO and IPCLIENTE01 interfaces are not displayed in the IP Interface table.</li> <li>The wrong IP address is displayed for the loopback interface.</li> </ul>	None	3.6.5
CSCsy39745	Riverstone: VLAN ID should be displayed for bridges	NetworkVision logical inventory displays the bridge VLAN name but does not display the VLAN ID for Riverstone device.	None	3.6.5
CSCsy40614	Port containers are not modeled for Cisco Catalyst 4948 devices	If you add a VNE for a Cisco 6500 device, and then, in NetworkVision, select <b>Physical Inventory &gt; Chassis &gt; Slot &gt; Module &gt; Port</b> , the port containers do not appear.	None	3.6.5

**Table 10** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsy40616</a>	For Cisco 6503 devices, the software version is a mismatch	If you update the software on a Cisco 6503 device, Cisco ANA inventory updates the product description in inventory, but not the software version.  The software version can take 30 minutes to be updated.	None	3.6.5
<a href="#">CSCsy43210</a>	Power and fan modules are not modeled for Cisco Catalyst 4948 devices	If you add a VNE for a Cisco Catalyst 6500 device, and then, in NetworkVision, select <b>Physical Inventory &gt; Chassis &gt; Slot &gt; Module</b> , the power and fan modules are not displayed.	None	3.6.5
<a href="#">CSCsy43605</a>	Connector details are missing for Cisco Catalyst 4948 devices	If you add a VNE for a Cisco Catalyst 4948 device, and then, in NetworkVision, select <b>Physical Inventory &gt; Chassis &gt; Slot &gt; Module</b> , the connector description and part ID are not displayed for port containers.	None	3.6.5
<a href="#">CSCsy44601</a>	Hardware type of fixed module is inaccurate for Cisco Catalyst 4948 devices	If you add a VNE for a Cisco Catalyst 4948 device, and then, in NetworkVision, select <b>Physical Inventory &gt; Chassis &gt; Slot &gt; Module</b> , the Hardware Type field contains incorrect information for the fixed module.	None	3.6.5
<a href="#">CSCsy46913</a>	BGP peer state is populated incorrectly for Cisco 12000 series devices	In NetworkVision, the Peer State field in the BGP Neighbors Properties window displays Active instead of Established for Cisco 12000 series devices.	None	3.6.5

**Table 10** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<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> <ul style="list-style-type: none"> <li>• Type: NOTIFICATION-TYPE</li> <li>• OID: 1.3.6.1.4.1.2636.4.4.0.4/ 1.3.6.1.4.1.2636.4.4.0.3</li> <li>• Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).juniperMIB(2636).jnxTraps(4).jnxLdpTraps(4).jnxLdpTrapPrefix(0).jnxLdpSesDown(4)</li> <li>• Module: JUNIPER-LDP-MIB</li> </ul>	None	3.6.4
<a href="#">CSCsv16468</a>	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
<a href="#">CSCsv23501</a>	Cisco ANA presents Swact notification (Redundancy) as Generic trap for Cisco CRS-1 devices	<p>Cisco ANA presents Swact notification (Redundancy) SNMP traps as Generic traps in EventVision.</p> <p>The trap is ciscoRFSwactNotif.</p> <p>To generate the ciscoRFSwactNotif trap, use the following MIB:</p> <p>OID: 1.3.6.1.4.1.9.9.176.2.0.1</p>	None	3.6.4
<a href="#">CSCsv32188</a>	Path Tracer does not reach IP interface configured on L3 Link Agg on Cisco CRS-1 devices	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
<a href="#">CSCsv32272</a>	Standard access list entries are not shown for Cisco 3750ME devices	Standard access list entries configured on Cisco 3750ME devices are not displayed in the Cisco ANA interface.	To check access lists entries on the device, enter the following command on the device: <b>show access-lists</b>	3.6.4

**Table 10** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv39730</a>	On Cisco 3750ME devices, one of the TRUNK ports is modeled as ACCESS	<p>This situation occurs when you:</p> <ol style="list-style-type: none"> <li>1. Run CARTS for the Cisco 3750ME device.</li> <li>2. Compare the baseline with the resultant file.</li> </ol> <p>The comparison reveals that the TRUNK port contains inconsistent information.</p>	None	3.6.4
<a href="#">CSCsv39821</a>	Missing DataLinkAggregation info	<p>Some of the DataLinkAggregation information is missing for Cisco 3750ME and Cisco 2950 devices. This situation occurs when you:</p> <ol style="list-style-type: none"> <li>1. Run CARTS for the Cisco 3750ME device.</li> <li>2. Compare the baseline with the resultant file.</li> </ol> <p>The DataLinkAggregation information is missing.</p>	None	3.6.4
<a href="#">CSCsv39839</a>	Some of the Juniper VNEs appear under Product scheme	<p>Some Juniper VNEs appear under the Product scheme even though they are supported by the ipcore scheme.</p> <p>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.</p>	None	3.6.4
<a href="#">CSCsv44393</a>	Information missing for system description and element type	<p>For Cisco 7609-S devices, the following fields do not contain complete information in NetworkVision:</p> <ul style="list-style-type: none"> <li>• System Description</li> <li>• Element Type</li> </ul>	None	3.6.4
<a href="#">CSCsv57775</a>	Cisco GSR 12016: Module unsupported	The Cisco GSR 12016 fan tray is unsupported.	None	3.6.4

Table 10 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv67267</a>	No description and no access-list entry appear in 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
<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="#">CSCsv78147</a>	Removing a card from a Cisco GSR device 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 logical inventory shows only the local AS (R-1841)	The MPBGP section in logical inventory shows only the local Autonomous System (AS) (R-1841).	None	3.6.4
<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

**Table 10** *Open Caveats in Cisco ANA 3.x (continued)*

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv85962</a>	Missing Card Down tickets for Cisco GSR routers running Cisco IOS 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="#">CSCsv88924</a>	Missing FrameRelay traffic profiles in logical inventory (Cisco R1841 routers)	Logical inventory does not display FrameRelay traffic profiles for Cisco R1841 routers.	None	3.6.4
<a href="#">CSCsv89171</a>	No topology due to wrong port encapsulation in Cisco CRS-1 devices (High-Level Data Link Control [HDLC] instead of PPP)	For Cisco CRS-1 devices, due to the wrong encapsulation for a 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
<a href="#">CSCsv90981</a>	VLANs above Link Aggregation (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
<a href="#">CSCsv96441</a>	Failed to model Cisco GSR devices running Cisco IOS XR 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.  Cisco ANA displays "missing pluggable port" even though the slot is a coaxial port and it is connected.	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="#">CSCsw16479</a>	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

Table 10 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsw18280</a>	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
<a href="#">CSCsq45883</a>	Cisco 6500 Virtual Switching System (VSS) Shelf out and Card out alarms are generated when the <b>redundancy force-switchover</b> command is issued	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>	Cisco 6500 VSS Interface operational state is down in active switch	When Cisco 6500 VSS systems are issued the <b>redundancy force-switchover</b> command, the Interface operational state goes down in the active switch.	None	3.6.3
<a href="#">CSCsq45966</a>	Cisco 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="#">CSCsq57683</a>	Ticket is created for each SFP after card has been removed from a Cisco CRS-1 device	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="#">CSCsq81705</a>	Cisco 6509 device: Wrong information is shown for Generic Routing Encapsulation (GRE) tunnel	For Cisco 6509 devices, the wrong source is shown for a GRE tunnel.	None	3.6.3

**Table 10** Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
<a href="#">CSCsv89324</a>	For Cisco MC CRS-1 devices, management interfaces from the second chassis are not displayed in Cisco ANA	For Cisco CRS-1 devices with a multiple chassis configuration, NetworkVision physical inventory does not display the management ports MgmtEth1/RP0/CPU0/0 and MgmtEth1/RP0/CPU0/1.	None	3.6.3
<a href="#">CSCsw70673</a>	Long Port description is truncated in ANA GUI	Long port descriptions that are configured for Fast Ethernet (FE) ports on Cisco 3750ME devices are truncated in the Cisco ANA GUI. Only 64 characters are displayed.  This situation occurs because the data type for ifAlias is defined as DisplayString (0...64) in the MIB.	Using a CLI, enter the following command on the device:  <b>snmp ifmib ifalias long</b>  This command allows a maximum of 256 characters to be displayed. For additional information, see the following document:  <a href="http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124cg/hnm_c/ch10/hshowif.htm">http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124cg/hnm_c/ch10/hshowif.htm</a>	3.6.3

## Resolved Caveats - Cisco ANA 3.6.5

**Table 11** Resolved Caveats - Cisco ANA 3.6.5

Identifier	Summary
<a href="#">CSCsq10616</a>	Media type shown incorrectly as fiber optic for an RJ45 port
<a href="#">CSCsq18550</a>	Port entry becomes blank in physical inventory after inserting an SFP in Cisco 3750ME
<a href="#">CSCsq29089</a>	Static route is shown as Direct in Cisco 6500 VSS
<a href="#">CSCsq35142</a>	Description of 7600-MSFC4 is incorrect for 7609S
<a href="#">CSCsq47807</a>	VPN topology in NetworkVision in Cisco ANA 3.6.2 shows duplicate VPN ports
<a href="#">CSCsq86055</a>	Cisco 7613: Module status shows as Unknown
<a href="#">CSCsr68375</a>	Cisco ANA 3.6.3.0.9: 10GE ports are missing for Cisco Catalyst 4948 devices in physical inventory
<a href="#">CSCsv08011</a>	BGP syslog for neighbor Down BFD adjacency down is received 6 times
<a href="#">CSCsv15637</a>	There are no links (need to switch on MAC-based discovery)
<a href="#">CSCsv16563</a>	Cisco ANA presents ChassisAlarm traps as Enterprise Generic traps
<a href="#">CSCsv26746</a>	Cisco ANA presents vlanTrunkPortDynamicStatusChange trap as Generic trap
<a href="#">CSCsv31711</a>	Input and Output access-list parameters under the interface are missing
<a href="#">CSCsv31946</a>	CPU and memory process parameters are not presented at all (Cisco IOS XR)

**Table 11**      **Resolved Caveats - Cisco ANA 3.6.5 (continued)**

Identifier	Summary
<a href="#">CSCsv44329</a>	Juniper device does not get connected to Ethernet cloud
<a href="#">CSCsv54612</a>	Standard IP access list entries are missing in Cisco ANA for Cisco 7609-S devices
<a href="#">CSCsv57069</a>	Card out syslog alarm is not correlated to Card out alarm on Cisco CRS-1
<a href="#">CSCsv70987</a>	StringIndexOutOfBoundsException in CiscoCatalystEthernetChannelsParser
<a href="#">CSCsv73513</a>	Missing interface port channel entries
<a href="#">CSCsv79316</a>	Hardware type is incorrect on slot5 - subslot6 (WS-F6K-PFC3XBL)
<a href="#">CSCsv82787</a>	No serial number on MSFC-2
<a href="#">CSCsv83274</a>	Error messages in the Services tab on web interface
<a href="#">CSCsv85897</a>	PLIM - Optic Ports added to physical inventory after extracting and reinserting a card
<a href="#">CSCsv88486</a>	Missing parameters on Serial WIC and missing DLCI table, on 1841 Router
<a href="#">CSCsv93997</a>	AVM 0 queue and memory size should be enlarged to prevent message drop
<a href="#">CSCsv94578</a>	Installation command <b>update.pl -r</b> on 3.6.0
<a href="#">CSCsv97682</a>	Cisco CRS-1 router running Cisco IOS XR 3.6.2 reports unsupported PEM module
<a href="#">CSCsv97773</a>	Power supply down syslogs appear as generic
<a href="#">CSCsw16414</a>	Wrong physical inventory for 7600-SIP-600 card
<a href="#">CSCsw18993</a>	The GUI clients for 3.6.4 appear with the wrong version (3.6.0)
<a href="#">CSCsw19551</a>	No “confirm password” when changing DB password of user sheer
<a href="#">CSCsw22309</a>	Layer 2 tunnel name is incorrect in case of Tail/Mid
<a href="#">CSCsw22372</a>	Missing Layer 2 tunnels of role Head due to bug in RegExp
<a href="#">CSCsw29524</a>	Slot numbers for Cisco 3750ME and Cisco 3400 are shown as 10000, 10001, and 10002

## Related Documentation

### User Guides

[Cisco Active Network Abstraction 3.6.5 Documentation Guide](#)

[Cisco Active Network Abstraction 3.6.5 User Guide](#)

[Cisco Active Network Abstraction 3.6.5 Managing MPLS User Guide](#)

[Cisco Active Network Abstraction 3.6.5 Technology Support and Information Model Reference Manual](#)

[Cisco Active Network Abstraction 3.6.5 VNE Reference Guide](#)

### Administrator Guides

[Cisco Active Network Abstraction 3.6.5 Installation Guide](#)

[Cisco Active Network Abstraction 3.6.5 Administrator User Guide](#)

## Developer Guide

*Cisco Active Network Abstraction 3.6.5 Customization User Guide*

# Obtaining Documentation and Submitting a Service Request

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:

<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.

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