Cisco Active Network Abstraction 3.6.7 Release Notes

Revised: October 5, 2009, OL-19645-01

These release notes support the release of Cisco Active Network Abstraction (Cisco ANA) 3.6.7.

Note See Cisco.com for the most up-to-date version of the *Cisco Active Network Abstraction 3.6.7 Release Notes*.

Contents

This document includes the following topics:

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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 3.6.7

The following new features were added in Cisco ANA 3.6.7:

- New Java version Sun JDK 1.4.2_19 included in the Cisco ANA server installation
- Support for the Sun SPARC 64 VI-based processor as a Cisco ANA gateway system.
- Support for Windows Vista.
- Modeling, flow, and fault support for Carrier Ethernet for:
  - Cisco ME 3400 UNI-ENI VLANs
  - Ethernet flow points
  - Ethernet over MPLS (EoMPLS) tunnels
  - Link Layer Discovery Protocol
  - MAC-based destination addresses in Cisco ANA PathTracer
  - Virtual Private LAN Service
  - VLANs
  - VLAN overlays in Cisco ANA NetworkVision map view
  - VLAN tagged interfaces (Q-in-Q)
  - VLAN Trunk Protocol
- Modeling, flow, and fault support for Mobile Transport over Packet (MToP) services for:
  - Inverse Multiplexing over ATM (IMA) groups
  - Time-division multiplexing (TDM)
  - Structure-Agnostic TDM over Packet (SAToP)
  - Circuit Emulation Services over PSN (CESoPSN)
  - ATM virtual connection cross-connects
  - MPLS pseudowire over generic routing encapsulation (GRE)
  - Network clocking service
  - Pseudowire clock recovery
  - Circuit emulation (CEM) interfaces and virtual CEM interfaces
  - CEM groups
- Support for Session Border Controller (SBC) system-defined commands:
  - To configure Signaling Border Elements (SBEs) for adjacency properties, SIP profiles, QoS properties, CAC policy properties, and Blacklist policy properties.
  - To configure Data Border Elements (DBE) components for media properties.
  - For on-demand, real-time SBC statistics data polling.
  - To display call rates, call statistics, media statistics, and H.248 statistics.

- Support for the IP over Dense Wavelength-Division Multiplexing (IPoDWDM) system-defined commands to configure Dense Wavelength-Division Multiplexing (DWDM) and SONET controller attributes.

  Go to the Cisco ANA Technology Center, which is part of the Cisco Developer Community, to download these commands:

  http://developer.cisco.com/web/ana/home

- Enhancements in the Command Builder GUI: While creating a new command you can:
  - Specify if the parameters are either mandatory or optional along with a description using the Required and Tooltip fields in the Add/Edit User Argument for Command dialog box.
  - Group the input parameters using the Tab Pages dialog box.
- Support for using an external Lightweight Directory Access Protocol (LDAP) server to perform user authentication. For more information, see the *Cisco Active Network Abstraction 3.6.7 Administrator User Guide*.
- Ability to launch external applications from managed network elements and its attributes from the Cisco ANA NetworkVision user interface. For more information, see the *Cisco Active Network Abstraction 3.6.7 Customization User Guide*.
- Support for the additional network element types identified in Table 1.

Table 1 Network Element Support Added in Cisco ANA 3.6.7

Device	Network Element
Cisco ASR 1000 Series router	ciscoASR1002F (Cisco ASR 1002 Fixed Router)
Cisco Catalyst 4500 Series switch	catalyst4506E (Cisco Catalyst 4506-E switch)
	catalyst4510 (Cisco Catalyst 4510R switch)
	catalyst4510RE (Cisco Catalyst 4510R-E switch)

- Support for the additional modules identified in Table 2.

Table 2 Module Support Added in Cisco ANA 3.6.7

Device	Module Support Added in Cisco ANA 3.6.7	
Cisco 2800 Series router	HWIC-D-9ESW	VWIC2-1MFT-G703
	VWIC-1MFT-G703	
Cisco 7200 Series router	C7200-JC-PA	PA-T3+
	PA-2T3/E3-EC	SFP-GE-L
	PA-MC-8TE1+	SFP-GE-S
Cisco 10000 Series router	ESR-4OC3-CHSTM1	ESR-HH-4CT3
	ESR-8E3DS3-ATM	
Cisco 12000 Series router	12810-CSC	

Table 2 Module Support Added in Cisco ANA 3.6.7 (continued)

Device	Module Support Added in Cisco ANA 3.6.7	
Cisco ASR 1000 Series router	CWDM-SFP-1470	GLC-GE-100FX
	CWDM-SFP-1490	SPA-1XOC48-POS
	CWDM-SFP-1510	SPA-2XOC12-POS
	CWDM-SFP-1530	SPA-4XOC12-POS
	CWDM-SFP-1550	SPA-8XOC12-POS
	CWDM-SFP-1570	SPA-8XOC3-POS
	CWDM-SFP-1590	SPA-OC192POS-XFP
	CWDM-SFP-1610	XFP-10GLR-OC192LR
Cisco Catalyst 3750 Series switch	GLC-EX-SMD	
Cisco Catalyst 4500 Series switch	GLC-LH-SM	WS-X45-SUP6L-E
	GLC-ZX-SM	WS-X4606-X2-E
	PWR-C45-1400DC	WS-X4624-SFP-E
	PWR-C45-2800ACV	X2-10GB-ER
	WS-X45-SUP6-E	X2-10GB-LR
Cisco Catalyst 6500 Series (IOS) switch	7600-ES+40G3C	SFP-GE-S
	GLC-BX-D	SFP-GE-T
	GLC-BX-U	SFP-GE-Z
Cisco CRS-1 router	2-10GE-WL-FLEX	SFP-GE-Z
	4-10GE	SPA-1X10GE-WL-V2
	20-1GE-FLEX	SPA-1XOC3-ATM-V2
	42-1GE	XFP-10GER-192IR+
	CRS-FP40	XFP-10GER-OC192IR
	SFP-GE-S	XFP-10GZR-OC192LR
	SFP-GE-T	
Cisco ME 3400 Series switch	GLC-EX-SMD	ME340X-PWR-AC
	GLC-FE-100FX	SFP-GE-S
	GLC-FE-100LX	SFP-GE-Z
Cisco MWR 2941 Mobile Wireless Router	GLC-LH-SM	GLC-T
	GLC-SX-MM	HWIC-1GE-SFP
	GLC-ZX-SM	HWIC-D-9ESW
Cisco XR 12000 Series router	12810-CSC	SFP-GE-Z
	SFP-GE-L	SPA-1XCHOC12/DS0
	SFP-GE-S	

- Support for the additional modules for Cisco 7600 Series routers identified in Table 3.

Table 3 Module Support for Cisco 7600 Series Routers Added in Cisco ANA 3.6.7

DWDM-SFP-3033	DWDM-SFP-5655	DWDM-XENPAK-52.52	DWDM-XFP-50.12
DWDM-SFP-3112	DWDM-SFP-5817	DWDM-XENPAK-54.13	DWDM-XFP-50.92
DWDM-SFP-3190	DWDM-SFP-5898	DWDM-XENPAK-54.94	DWDM-XFP-51.72
DWDM-SFP-3268	DWDM-SFP-5979	DWDM-XENPAK-55.75	DWDM-XFP-52.52
DWDM-SFP-3425	DWDM-XENPAK-30.33	DWDM-XENPAK-56.55	DWDM-XFP-54.13
DWDM-SFP-3504	DWDM-XENPAK-31.12	DWDM-XENPAK-58.17	DWDM-XFP-54.94
DWDM-SFP-3582	DWDM-XENPAK-31.90	DWDM-XENPAK-58.98	DWDM-XFP-55.75
DWDM-SFP-3661	DWDM-XENPAK-32.68	DWDM-XENPAK-59.79	DWDM-XFP-56.55
DWDM-SFP-3819	DWDM-XENPAK-34.25	DWDM-XFP-30.33	DWDM-XFP-58.17
DWDM-SFP-3898	DWDM-XENPAK-35.04	DWDM-XFP-31.12	DWDM-XFP-58.98
DWDM-SFP-3977	DWDM-XENPAK-35.82	DWDM-XFP-31.90	DWDM-XFP-59.79
DWDM-SFP-4056	DWDM-XENPAK-36.61	DWDM-XFP-32.68	DWDM-XFP-60.61
DWDM-SFP-4214	DWDM-XENPAK-38.19	DWDM-XFP-34.25	DWDM-SFP-6061
DWDM-SFP-4294	DWDM-XENPAK-38.98	DWDM-XFP-35.04	DWDM-XENPAK-60.61
DWDM-SFP-4373	DWDM-XENPAK-39.77	DWDM-XFP-35.82	DWDM-XFP-36.61
DWDM-SFP-4453	DWDM-XENPAK-40.56	DWDM-XFP-38.19	GLC-T
DWDM-SFP-4612	DWDM-XENPAK-42.14	DWDM-XFP-38.98	GLC-SX-MM
DWDM-SFP-4692	DWDM-XENPAK-42.94	DWDM-XFP-39.77	GLC-ZX-SM
DWDM-SFP-4772	DWDM-XENPAK-43.73	DWDM-XFP-40.56	SFP-OC3-LR2
DWDM-SFP-4851	DWDM-XENPAK-44.53	DWDM-XFP-42.14	SFP-OC48-IR1
DWDM-SFP-5012	DWDM-XENPAK-46.12	DWDM-XFP-42.94	SPA-1XOC48POS/RPR
DWDM-SFP-5092	DWDM-XENPAK-46.92	DWDM-XFP-43.73	SPA-IPSEC-2G
DWDM-SFP-5172	DWDM-XENPAK-47.72	DWDM-XFP-44.53	WS-X6708-10GE
DWDM-SFP-5252	DWDM-XENPAK-48.51	DWDM-XFP-46.12	XENPAK-10GB-ER+
DWDM-SFP-5413	DWDM-XENPAK-50.12	DWDM-XFP-46.92	XENPAK-10GB-LR
DWDM-SFP-5494	DWDM-XENPAK-50.92	DWDM-XFP-47.72	
DWDM-SFP-5575	DWDM-XENPAK-51.72	DWDM-XFP-48.51	

- Support for the additional software versions identified in Table 4.

Table 4 Software Support Added in Cisco ANA 3.6.7

Product	Software	Version
Cisco 1800 Series router	Cisco IOS	12.4(22)T
Cisco 2800 Series router	Cisco IOS	12.4(15)T
		12.4(22)T
Cisco 3800 Series router	Cisco IOS	12.4(22)T

Table 4 Software Support Added in Cisco ANA 3.6.7 (continued)

Product	Software	Version
Cisco 4500 Series router	Cisco IOS	12.2(52)XO
Cisco 7200 Series router	Cisco IOS	12.2(33)SRC3
Cisco 7600 Series router	Cisco IOS	12.2(33)SRC3
Cisco 10000 Series router	Cisco IOS	12.2(33)SB1
Cisco 12000 Series router	Cisco IOS	12.0(32)SY4
		12.0(33)S1
Cisco XR 12000 Series router	Cisco IOS XR	3.6.3
		3.8.1
Cisco CRS-1 router	Cisco IOS XR	3.6.3
		3.8.1
Cisco ASR 1000 Series router	Cisco IOS XE	2.3.2
		2.4.0
Cisco ASR 9000 Series router	Cisco IOS XR	3.7.3
Cisco MWR 2941 Mobile Wireless router	Cisco IOS	12.4(20)MR
Cisco ME 3400 Series router	Cisco IOS	12.2(52)SE
Cisco 3750 Series switch	Cisco IOS	12.2(50)SE
		12.2(52)SE
Cisco Catalyst 3750 Metro Series switch	Cisco IOS	12.2(52)SE
Cisco Catalyst 4500 Series switch	Cisco IOS	12.2(50)SG1
Cisco Catalyst 6500 Series switch	Cisco IOS	12.2(33)SRD2

- New or enhanced service alarms, trap support, and syslog support, identified in the following sections:
  - New Service Alarms, page 8
  - Enhanced Service Alarm, page 8
  - New Trap Support, page 8
  - New Syslog Support, page 23
- Various bug resolutions. For details, see Resolved Caveats - Cisco ANA 3.6.7, page 71.
- The following are the documentation enhancements:
  - A new deliverable, the *Cisco Active Network Abstraction Integration Developer Guide*. This guide describes how to use the Cisco Active Network Abstraction (Cisco ANA) integration interface. This interface (API) consists of simple XML-based query language, called the ANA Broadband Query Language (BQL), which provides programmatic access to the entire ANA information model, as well as other ANA key features and functions.
  - The information from the *Cisco Active Network Abstraction 3.6.6 MPLS User Guide* has been incorporated into the *Cisco Active Network Abstraction 3.6.7 User Guide*.

- Information on the VPN Leak alarm has been removed from the documentation. The VPN Leak alarm was previously documented in the *Cisco Active Network Abstraction 3.6.6 MPLS User Guide*.
- The information on the Drools rules engine that was previously in the *Cisco Active Network Administration 3.6.6 Administrator Guide* has been incorporated into the *Cisco Active Network Abstraction 3.6.7 Customization User Guide*.

New Service Alarms

Table 5 describes the service alarms that were added in Cisco ANA 3.6.7.

Table 5 Service Alarms Added in Cisco ANA 3.6.7

Alarm	Description	Clearing Alarm
EFP Admin Down	EFP is in administrative status down.	EFP Up
EFP Down Due to Error Disabled	EFP is in operational status down and the error disabled property value is true.	EFP Up
EFP Oper Down	EFP is in operational status down.	EFP Up
Subinterface Down	Issued when the operational status of the subinterface changes from up to down.	Subinterface Up
Subinterface Admin Down	Issued when the administrative status of the subinterface changes from up to down.	Subinterface Up
VSI Down	VSI is in operational status down.	VSI Up
VSI Admin Down	VSI is in administrative status down.	VSI Up

Enhanced Service Alarm

In previous releases, Cisco ANA generated the Layer 2 Tunnel Down alarm only when an Layer 2 tunnel changed its operational state to down. Beginning with Cisco ANA 3.6.7, Cisco ANA also generates a Layer 2 Tunnel Down alarm if it detects that the Layer 2 tunnel is down when Cisco ANA begins to manage it.

New Trap Support

The following sections identify the trap support added in Cisco ANA 3.6.7:

- Cisco IOS V1 Trap Support Added, page 9
- Cisco IOS V2 Trap Support Added, page 11
- Cisco IOS XR V1 Trap Support Added, page 13
- Cisco IOS XR V2 Trap Support Added, page 16
- Cisco MIB2 V1 Trap Support Added, page 19
- Cisco MIB2 V2 Trap Support Added, page 21

Cisco IOS V1 Trap Support Added

Table 6 Cisco IOS V1 Trap Support Added in Cisco ANA 3.6.7

Trap Name	Trap OID	Short Description
MIB2 V1 link down	1.3.6.1.6.3.1.1.5	SNMP Link down
MIB2 V1 link up	1.3.6.1.6.3.1.1.5	SNMP Link up
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	IMA Group Remote Failure
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	IMA Group Remote insufficient links trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	IMA Group Up Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	IMA Group local Failure
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	IMA Group local insufficient links trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	Ima Link Loss of delay Frame Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	Ima Link Loss of ima Frame Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	Ima Link Rcv Failure Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	Ima Link Remote Failure Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	Ima Link Up Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2	Ima Link Xmt Failure Trap
Cisco-UMT-state-change-v1	.1.3.6.1.4.1.9.9.483	Cisco UMT state Change trap
Cisco-GSM-state-change-trap-v1	.1.3.6.1.4.1.9.9.483	Cisco GSM state Change trap
Cisco-IPRAN-Backhaul-received-util-v1	.1.3.6.1.4.1.9.9.483	IPRAN Backhaul Received Util Acceptable Trap
Cisco-IPRAN-Backhaul-received-util-v1	.1.3.6.1.4.1.9.9.483	IPRAN Backhaul Received Util Warning Trap
Cisco-IPRAN-Backhaul-received-util-v1	.1.3.6.1.4.1.9.9.483	IPRAN Backhaul Received Util Overloaded Trap
Cisco-IPRAN-Backhaul-sent-util-v1	.1.3.6.1.4.1.9.9.483	IPRAN Backhaul Sent Util Acceptable Trap
Cisco-IPRAN-Backhaul-sent-util-v1	.1.3.6.1.4.1.9.9.483	IPRAN Backhaul Sent Util Overloaded Trap
Cisco-IPRAN-Backhaul-sent-util-v1	.1.3.6.1.4.1.9.9.483	IPRAN Backhaul Sent Util Warning Trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2	Connection Loss detected by ipsla icmp echo trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2	Timeout detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap

Table 6 Cisco IOS V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2	Threshold crossing under trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2	Threshold crossing over trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2	Data corruption in rtt operation trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2	Data corruption cleared in rtt operation trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection Loss detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection Loss detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Timeout detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Timeout detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	RTT threshold crossing over trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	RTT threshold crossing under trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LSP path discovery failure trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LSP path rediscovery trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LDP group status failure trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LDP group status restoration trap
cmplsFrrProtected	1.3.6.1.4.1.9.10.98	FRR Protected Trap
cmplsFrrUnProtected	1.3.6.1.4.1.9.10.98	FRR Unprotected Trap
cpwVcUp	1.3.6.1.4.1.9.10.106.2	Pseudo wire tunnel up
cpwVcDown	1.3.6.1.4.1.9.10.106.2	Pseudo wire tunnel down
vtpConfigRevNumberError	1.3.6.1.4.1.9.9.46.2	vtp configuration revision number error trap
vtpConfigDigestError	1.3.6.1.4.1.9.9.46.2	vtp configuration digest error trap
vtpVersionOneDeviceDetected	1.3.6.1.4.1.9.9.46.2	vtp VersionOne Device Detected trap

Table 6 Cisco IOS V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
vtpLocalModeChanged	1.3.6.1.4.1.9.9.46.2	vtp Local Mode Changed trap
vtpVersionInUseChanged	1.3.6.1.4.1.9.9.46.2	vtp VersionInUse Changed trap
vlanTrunkPortDynamicStatusChange	1.3.6.1.4.1.9.9.46.2	Vlan trunk port dynamic status changed to trunking
vlanTrunkPortDynamicStatusChange	1.3.6.1.4.1.9.9.46.2	Vlan trunk port dynamic status changed to not trunking

Cisco IOS V2 Trap Support Added

Table 7 Cisco IOS V2 Trap Support Added in Cisco ANA 3.6.7

Trap Name	Trap OID	Short Description
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	IMA Group Remote Failure
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	IMA Group Remote insufficient links trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	IMA Group Up Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	IMA Group local Failure
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	IMA Group local insufficient links trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	Ima Link Loss of delay Frame Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	Ima Link Loss of ima Frame Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	Ima Link Rcv Failure Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	Ima Link Remote Failure Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	Ima Link Up Trap
imaFailureAlarm	1.3.6.1.4.1.353.5.7.1.2.0.1	Ima Link Xmt Failure Trap
Cisco-UMT-state-change-v2	1.3.6.1.4.1.9.9.483.0.2	Cisco UMT state Change trap
Cisco-GSM-state-change-trap-v2	1.3.6.1.4.1.9.9.483.0.1	Cisco GSM state Change trap
Cisco-IPRAN-Backhaul-received-util-v2	1.3.6.1.4.1.9.9.483.0.3	IPRAN Backhaul Received Util Acceptable Trap

Table 7 Cisco IOS V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
Cisco-IPRAN-Backhaul-received-util-v2	1.3.6.1.4.1.9.9.483.0.3	IPRAN Backhaul Received Util Warning Trap
Cisco-IPRAN-Backhaul-received-util-v2	1.3.6.1.4.1.9.9.483.0.3	IPRAN Backhaul Received Util Overloaded Trap
Cisco-IPRAN-Backhaul-sent-util-v2	1.3.6.1.4.1.9.9.483.0.4	IPRAN Backhaul Sent Util Acceptable Trap
Cisco-IPRAN-Backhaul-sent-util-v2	1.3.6.1.4.1.9.9.483.0.4	IPRAN Backhaul Sent Util Overloaded Trap
Cisco-IPRAN-Backhaul-sent-util-v2	1.3.6.1.4.1.9.9.483.0.4	IPRAN Backhaul Sent Util Warning Trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	Connection Loss detected by ipsla icmp echo trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	Connection re-establish detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2.0.2	Timeout detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2.0.2	Connection re-establish detected by ipsla icmp echo trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2.0.3	Threshold crossing under trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2.0.3	Threshold crossing over trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	Data corruption in rtt operation trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	Data corruption cleared in rtt operation trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection Loss detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection Loss detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Timeout detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Timeout detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	RTT threshold crossing over trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	RTT threshold crossing under trap

Table 7 Cisco IOS V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	IPSLA LSP path discovery failure trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	IPSLA LSP path rediscovery trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	IPSLA LDP group status failure trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	IPSLA LDP group status restoration trap
cmplsFrrProtected	1.3.6.1.4.1.9.10.98.0.1	FRR Protected Trap
cmplsFrrUnProtected	1.3.6.1.4.1.9.10.98.0.2	FRR Unprotected Trap
cpwVcUp	1.3.6.1.4.1.9.10.106.2.2	Pseudo wire tunnel up
cpwVcDown	1.3.6.1.4.1.9.10.106.2.1	Pseudo wire tunnel down

Cisco IOS XR V1 Trap Support Added

Table 8 Cisco IOS XR V1 Trap Support Added in Cisco ANA 3.6.7

Trap Name	Enterprise OID	Short Description
cpwVcUp	1.3.6.1.4.1.9.10.106.2	Pseudo wire tunnel up
cpwVcDown	1.3.6.1.4.1.9.10.106.2	Pseudo wire tunnel down
MIB2 V1 link down	1.3.6.1.6.3.1.1.5	SNMP Link down
MIB2 V1 link up	1.3.6.1.6.3.1.1.5	SNMP Link up
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2	Connection Loss detected by ipsla icmp echo trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2	Timeout detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2	Threshold crossing under trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2	Threshold crossing over trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2	Data corruption in rtt operation trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2	Data corruption cleared in rtt operation trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection Loss detected by ipsla icmp echo trap

Table 8 Cisco IOS XR V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Enterprise OID	Short Description
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection Loss detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Timeout detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Timeout detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	RTT threshold crossing over trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2	RTT threshold crossing under trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LSP path discovery failure trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LSP path rediscovery trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LDP group status failure trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2	IPSLA LDP group status restoration trap
cmplsFrrProtected	1.3.6.1.4.1.9.10.98	FRR Protected Trap
cmplsFrrUnProtected	1.3.6.1.4.1.9.10.98	FRR Unprotected Trap
cpwVcUp	1.3.6.1.4.1.9.10.106.2	Pseudo wire tunnel up
cpwVcDown	1.3.6.1.4.1.9.10.106.2	Pseudo wire tunnel down
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Far end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end sending LOF Indication
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Far end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end Loss of Signal
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end is looped

Table 8 Cisco IOS XR V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Enterprise OID	Short Description
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 E1 TS16 AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Far End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near End detects a test code
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 any line status not defined here
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near End in Unavailable Signal State
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Carrier Equipment Out of Service
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 DS2 Payload AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 DS2 Performance Threshold Exceeded
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 combination of bitmaps due to multiple failures
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 No alarm present
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Transmitting Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving AIS failure state
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Transmitting AIS
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving LOF failure state
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving LOS failure state
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Looping the received signal
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving a Test Pattern
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 any line status not defined here
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Near End in Unavailable Signal State

Table 8 Cisco IOS XR V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Enterprise OID	Short Description
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Carrier Equipment Out of Service
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 combination of bitmaps due to multiple failures
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 No alarm present
entConfigChange	1.3.6.1.2.1.47.2	Entity table configuration changed
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32	FR DLCI status invalid trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32	FR DLCI status inactive trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32	FR DLCI status active trap

Cisco IOS XR V2 Trap Support Added

Table 9 Cisco IOS XR V2 Trap Support Added in Cisco ANA 3.6.7

Trap Name	Trap OID	Short Description
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	RTT Connection Change
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2.0.2	RTT Operation Timeout
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2.0.3	RTT Operation Threshold Violation
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	RTT Verify Error
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	RTT threshold violation or clearance
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	RTT Lpd Discovery
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	RTT Lpd Grp Status
cbgpBackwardTransition	1.3.6.1.4.1.9.9.187.0.2	IPv6 BGP down trap
cbgpFsmStateChange	1.3.6.1.4.1.9.9.187.0.1	ipv6 BGP FSM state changed trap
cbgpFsmStateChange	1.3.6.1.4.1.9.9.187.0.1	IPv6 BGP established trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	Connection Loss detected by ipsla icmp echo trap
rttMonConnectionChangeNotification	1.3.6.1.4.1.9.9.42.2.0.1	Connection re-establish detected by ipsla icmp echo trap

Table 9 Cisco IOS XR V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2.0.2	Timeout detected by ipsla icmp echo trap
rttMonTimeoutNotification	1.3.6.1.4.1.9.9.42.2.0.2	Connection re-establish detected by ipsla icmp echo trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2.0.3	Threshold crossing under trap
rttMonThresholdNotification	1.3.6.1.4.1.9.9.42.2.0.3	Threshold crossing over trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	Data corruption in rtt operation trap
rttMonVerifyErrorNotification	1.3.6.1.4.1.9.9.42.2.0.4	Data corruption cleared in rtt operation trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection Loss detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection Loss detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Timeout detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Timeout detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	Connection re-establish detected by ipsla LSP icmp echo trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	RTT threshold crossing over trap
rttMonNotification	1.3.6.1.4.1.9.9.42.2.0.5	RTT threshold crossing under trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	IPSLA LSP path discovery failure trap
rttMonLpdDiscoveryNotification	1.3.6.1.4.1.9.9.42.2.0.6	IPSLA LSP path rediscovery trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	IPSLA LDP group status failure trap
rttMonLpdGrpStatusNotification	1.3.6.1.4.1.9.9.42.2.0.7	IPSLA LDP group status restoration trap
cmplsFrrProtected	1.3.6.1.4.1.9.10.98.0.1	FRR Protected Trap
cmplsFrrUnProtected	1.3.6.1.4.1.9.10.98.0.2	FRR Unprotected Trap
cpwVcUp	1.3.6.1.4.1.9.10.106.2.2	Pseudo wire tunnel up
cpwVcDown	1.3.6.1.4.1.9.10.106.2.1	Pseudo wire tunnel down

Table 9 Cisco IOS XR V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Far end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end sending LOF Indication
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Far end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end Loss of Signal
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end is looped
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 E1 TS16 AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Far End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near End detects a test code
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 any line status not defined here
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near End in Unavailable Signal State
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Carrier Equipment Out of Service
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 DS2 Payload AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 DS2 Performance Threshold Exceeded
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 combination of bitmaps due to multiple failures
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 No alarm present
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Transmitting Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving AIS failure state

Table 9 Cisco IOS XR V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Transmitting AIS
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving LOF failure state
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving LOS failure state
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Looping the received signal
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving a Test Pattern
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 any line status not defined here
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Near End in Unavailable Signal State
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Carrier Equipment Out of Service
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 combination of bitmaps due to multiple failures
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 No alarm present
entConfigChange	1.3.6.1.2.1.47.2.0.1	Entity table configuration changed
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32.0.1	FR DLCI status invalid trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32.0.1	FR DLCI status inactive trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32.0.1	FR DLCI status active trap

Cisco MIB2 V1 Trap Support Added

Table 10 Cisco MIB2 V1 Trap Support Added in Cisco ANA 3.6.7

Trap Name	Enterprise OID	Short Description
MIB2 V1 link down	1.3.6.1.6.3.1.1.5	SNMP Link down
MIB2 V1 link up	1.3.6.1.6.3.1.1.5	SNMP Link up
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Far end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end sending LOF Indication
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Far end sending AIS

Table 10 Cisco MIB2 V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Enterprise OID	Short Description
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end Loss of Signal
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near end is looped
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 E1 TS16 AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Far End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near End detects a test code
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 any line status not defined here
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Near End in Unavailable Signal State
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 Carrier Equipment Out of Service
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 DS2 Payload AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 DS2 Performance Threshold Exceeded
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 combination of bitmaps due to multiple failures
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15	DSX1 No alarm present
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Transmitting Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving AIS failure state
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Transmitting AIS
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving LOF failure state
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving LOS failure state

Table 10 Cisco MIB2 V1 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Enterprise OID	Short Description
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Looping the received signal
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Receiving a Test Pattern
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 any line status not defined here
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Near End in Unavailable Signal State
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 Carrier Equipment Out of Service
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 combination of bitmaps due to multiple failures
DSX3 V1 Line Status Change	.1.3.6.1.2.1.10.30.15	DSX3 No alarm present
entConfigChange	1.3.6.1.2.1.47.2	Entity table configuration changed
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32	FR DLCI status invalid trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32	FR DLCI status inactive trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32	FR DLCI status active trap

Cisco MIB2 V2 Trap Support Added

Table 11 Cisco MIB2 V2 Trap Support Added in Cisco ANA 3.6.7

Trap Name	Trap OID	Short Description
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Far end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end sending LOF Indication
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Far end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end sending AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end LOF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end Loss of Signal
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near end is looped

Table 11 Cisco MIB2 V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 E1 TS16 AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Far End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near End Sending TS16 LOMF
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near End detects a test code
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 any line status not defined here
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Near End in Unavailable Signal State
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 Carrier Equipment Out of Service
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 DS2 Payload AIS
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 DS2 Performance Threshold Exceeded
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 combination of bitmaps due to multiple failures
DSX1 V1 Line Status Change	1.3.6.1.2.1.10.18.15.0.1	DSX1 No alarm present
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Transmitting Yellow/Remote Alarm Indication
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving AIS failure state
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Transmitting AIS
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving LOF failure state
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving LOS failure state
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Looping the received signal
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Receiving a Test Pattern
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 any line status not defined here
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Near End in Unavailable Signal State

Table 11 Cisco MIB2 V2 Trap Support Added in Cisco ANA 3.6.7 (continued)

Trap Name	Trap OID	Short Description
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 Carrier Equipment Out of Service
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 combination of bitmaps due to multiple failures
DSX3 V1 Line Status Change	1.3.6.1.2.1.10.30.15.0.1	DSX3 No alarm present
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32.0.1	FR DLCI status invalid trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32.0.1	FR DLCI status inactive trap
Frame-Relay dlci status change trap v1	1.3.6.1.2.1.10.32.0.1	FR DLCI status active trap

New Syslog Support

The following sections identify the syslog support added in Cisco ANA 3.6.7:

- Cisco IOS Syslog Support Added, page 23
- Cisco IOS XR Syslog Support Added, page 24

Cisco IOS Syslog Support Added

Table 12 Cisco IOS Syslog Support Added in Cisco ANA 3.6.7

Syslog Name	Short Description	Severity
ATM_AIM-5-ACTIVE_LINK_(DOWN|UP)	Ima Link Status Change Down Syslog	Major
ATM_AIM-5-ACTIVE_LINK_(DOWN|UP)	Ima Link Status Change Up Syslog	Cleared
ATM_AIM-5-ACTIVE_LINK_CHANGE	IMA Active Link Change Syslog	Information
CDP-4-NATIVE_VLAN_MISMATCH	Native VLAN mismatch discovered	Information
TOP_MODULE-6-CLK_STATUS_CHANGE	Clock status change syslog	Information
TOP_MODULE-6-CLK_SOURCE_CHANGE	Clock source change syslog	Information
L2-L2VPN_PW-3-UPDOWN	pseudo wire tunnel down syslog	Minor
L2-L2VPN_PW-3-UPDOWN	pseudo wire tunnel up syslog	Cleared
ETHER_SERVICE-6-ERR_DISABLED	EFP service error disabled syslog	Information
ETHER_SERVICE-6-UPDOWN	EFP down syslog	Major
ETHER_SERVICE-6-UPDOWN	EFP up syslog	Cleared

Cisco IOS XR Syslog Support Added

Table 13 Cisco IOS XR Syslog Support Added in Cisco ANA 3.6.7

Syslog Name	Short Description	Severity
TOP_MODULE-6-CLK_STATUS_CHANGE	Clock status change syslog	Information
TOP_MODULE-6-CLK_SOURCE_CHANGE	Clock source change syslog	Information
L2-L2VPN_PW-3-UPDOWN	pseudo wire tunnel down syslog	Minor
L2-L2VPN_PW-3-UPDOWN	pseudo wire tunnel up syslog	Cleared
ETHER_SERVICE-6-ERR_DISABLED	EFP service error disabled syslog	Information
L2-DWDM-3-NOT_YET_IMPLEMENTED	DWDM feature not implemented yet	Warning
L2-DWDM-3-FATAL_2	DWDM fatal error with reason and error number	Major
L2-DWDM-3-FATAL	DWDM fatal error with reason	Major
L2-PLIM-2-EIO_TRAIN	PLIM EIO training errors syslog	Major
L2-DWDM-3-FATAL_2	DWDM fatal error with reason and error number	Major
L2-PLIM-3-CHK_ERR	PLIM Checkpoint Initialization Failure syslog	Minor
L2-PLIM-3-HW_ERR	PLIM ASIC error syslog	Minor
L2-PLIM-3-MEM_ERR	PLIM memory error syslog	Major
L2-PLIM-3-SQUID_ERR	PLIM squid error syslog	Minor
L2-PLIM-7-ERR	PLIM 7 error syslog	Minor
L2-PLIM_OC768-3-CRITICAL_ERROR	PLIM OC768 critical error syslog	Major
L2-PLIM_OC768-6-INFO	PLIM OC768 INFO syslog	Information
L2-PLIM_OC768-7-DEBUG_MSG	PLIM OC768 debug syslog	Information

IMO Model API Changes

The following topics identify the changes that were made in the Information Model Object (IMO) model API between Cisco ANA 3.6.6 and Cisco ANA 3.6.7:

- IMOs Added, page 25
- IMOs Changed, page 31

No IMOs were removed in Cisco ANA 3.6.7.

IMOs Added

Table 14 IMOs Added in Cisco ANA 3.6.7

IMO Name	IMO Name
com.sheer.imo.IAuthenticationMethod	com.sheer.imo.keys.ISbeSdpPolicyTableOid
com.sheer.imo.IBlockLinkDecoratorAspect	com.sheer.imo.keys.ISbeSipHeaderProfileEntryOid
com.sheer.imo.ICalloutAspect	com.sheer.imo.keys.ISbeSipHeaderProfileHeaderOid
com.sheer.imo.IClientParticipatingAspect	com.sheer.imo.keys.ISbeSipHeaderProfileOid
com.sheer.imo.IDiscoveryProtocol	com.sheer.imo.keys.ISbeSipMethodProfileMethodOid
com.sheer.imo.IEfdList	com.sheer.imo.keys.ISbeSipMethodProfileOid
com.sheer.imo.IEthFlowPoint	com.sheer.imo.keys.ISbeSipOptionProfileOid
com.sheer.imo.IEthFlowPointReferencedNEAspect	com.sheer.imo.keys.ISbeSipParameterProfileEntryOid
com.sheer.imo.IEthernetFlowDomain	com.sheer.imo.keys.ISbeSipParameterProfileOid
com.sheer.imo.IInternalBulkAddNotification	com.sheer.imo.keys.ISbeSipProfileOid
com.sheer.imo.IInternalBulkCreateNotification	com.sheer.imo.keys.ISbeSipTimerPropertiesOid
com.sheer.imo.ILayerAdditionalDetailsAspect	com.sheer.imo.keys.IScriptTabPageOid
com.sheer.imo.ILayerDetails	com.sheer.imo.keys.IServiceLinkOid
com.sheer.imo.INetworkService	com.sheer.imo.keys.IServiceLinksAspectOid
com.sheer.imo.INetworkVlan	com.sheer.imo.keys.ISipAccountOid
com.sheer.imo.INetworkVlanStandaloneFlowPointsAspect	com.sheer.imo.keys.ISipAdjacencyGroupOid
com.sheer.imo.INetworkVlanSwitchingEntitiesAspect	com.sheer.imo.keys.ISipAdjacencyOid
com.sheer.imo.IPairedImo	com.sheer.imo.keys.ISipProfileOid
com.sheer.imo.IPhysicalLayerAggregation	com.sheer.imo.keys.ISipTimerOid
com.sheer.imo.IPhysicalLayerAggregationContainer	com.sheer.imo.keys.ISwitchingEntityEthFlowPointsAspect Oid
com.sheer.imo.IReferencedBridgeAspect	com.sheer.imo.keys.ISwitchingEntityOid
com.sheer.imo.IReferencedStpInstanceInfoAspect	com.sheer.imo.keys.IVLANTaggedInterfaceOid
com.sheer.imo.IReferencingEthFlowPointsAspect	com.sheer.imo.keys.IVSIOid
com.sheer.imo.IReferencingNetworkVlanAspect	com.sheer.imo.keys.IVdbeOid
com.sheer.imo.IReferencingSwitchingEntityAspect	com.sheer.imo.keys.IVirtualCEMOid
com.sheer.imo.IRootBridgeDecoratorAspect	com.sheer.imo.keys.IVlanCalloutAspectOid
com.sheer.imo.IScriptTabPage	com.sheer.imo.keys.IVlanEntryReferencedStpAspectOid
com.sheer.imo.IServiceLink	com.sheer.imo.keys.IVlanServiceLinkOid
com.sheer.imo.IServiceLinksAspect	com.sheer.imo.keys.IVlanSnapshotOid
com.sheer.imo.ISwitchingEntity	com.sheer.imo.keys.IVtpDomainOid
com.sheer.imo.ISwitchingEntityEthFlowPointsAspect	com.sheer.imo.keys.IVtpServiceOid
com.sheer.imo.IVlanCalloutAspect	com.sheer.imo.keys.IVtpSnapshotOid
com.sheer.imo.IVlanEntryReferencedStpAspect	com.sheer.imo.technologies.IACRService

Table 14 IMOs Added in Cisco ANA 3.6.7 (continued)

IMO Name	IMO Name
com.sheer.imo.IVlanServiceLink	com.sheer.imo.technologies.IBgpNeighbourAFInfo
com.sheer.imo.keys.IAAAInterfaceOid	com.sheer.imo.technologies.ICEMEncap
com.sheer.imo.keys.IAAAOid	com.sheer.imo.technologies.ICEMGroup
com.sheer.imo.keys.IACRServiceOid	com.sheer.imo.technologies.IClientEfpContainer
com.sheer.imo.keys.IAccountingOid	com.sheer.imo.technologies.IClockService
com.sheer.imo.keys.IAuthenticationMethodOid	com.sheer.imo.technologies.IClockSource
com.sheer.imo.keys.IAuthenticationOid	com.sheer.imo.technologies.IEfp
com.sheer.imo.keys.IBgpNeighbourAFInfoOid	com.sheer.imo.technologies.IEthernetDiscoveryService
com.sheer.imo.keys.IBillingInstanceOid	com.sheer.imo.technologies.ILldpNeighbor
com.sheer.imo.keys.IBillingInstanceStatisticsOid	com.sheer.imo.technologies.ILldpService
com.sheer.imo.keys.IBillingOid	com.sheer.imo.technologies.IPortEfp
com.sheer.imo.keys.IBlackListOid	com.sheer.imo.technologies.IPortEfpRelation
com.sheer.imo.keys.IBlockLinkDecoratorAspectOid	com.sheer.imo.technologies.IPseudowireProperties
com.sheer.imo.keys.ICDPNeighborInfoOid	com.sheer.imo.technologies.IPtpInterface
com.sheer.imo.keys.ICDPServiceOid	com.sheer.imo.technologies.IPtpService
com.sheer.imo.keys.ICEMEncapOid	com.sheer.imo.technologies.IPvstpPortInfo
com.sheer.imo.keys.ICacPolicyOid	com.sheer.imo.technologies.IRecoveredClock
com.sheer.imo.keys.ICallPolicyOid	com.sheer.imo.technologies.IVLANTaggedInterface
com.sheer.imo.keys.ICalloutAspectOid	com.sheer.imo.technologies.IVSI
com.sheer.imo.keys.IClientParticipatingAspectOid	com.sheer.imo.technologies.IVirtualCEM
com.sheer.imo.keys.IClockServiceOid	com.sheer.imo.technologies.IVtpDomain
com.sheer.imo.keys.IClockSourceOid	com.sheer.imo.technologies.IVtpService
com.sheer.imo.keys.ICodecListOid	com.sheer.imo.technologies.vendors.cisco.ICDPNeighborInfo
com.sheer.imo.keys.ICurrentBlacklistingOid	com.sheer.imo.technologies.vendors.cisco.ICDPService
com.sheer.imo.keys.IDBEOid	com.sheer.imo.technologies.vendors.cisco.ICiscoBridge
com.sheer.imo.keys.IDbeH248ProfileOid	com.sheer.imo.technologies.vendors.cisco.ICiscoEthernet
com.sheer.imo.keys.IDbeMGCOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.IDbeMediaInterface
com.sheer.imo.keys.IDbeMediaInterfaceOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbcAdjacencyEnd
com.sheer.imo.keys.IDiscoveryProtocolNeighborOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbcAdjacencyGroup
com.sheer.imo.keys.IDiscoveryProtocolOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbcH323AdjacencyEnd
com.sheer.imo.keys.IEfdListOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbcSipAdjacencyEnd

Table 14 IMOs Added in Cisco ANA 3.6.7 (continued)

IMO Name	IMO Name
com.sheer.imo.keys.IEfpOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbcSipAdjacencyEndAuthRealm
com.sheer.imo.keys.IEthFlowPointOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbeGlobalHuntingTriggerList
com.sheer.imo.keys.IEthFlowPointReferencedNEAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.adjacencies.ISbeH323Properties
com.sheer.imo.keys.IEthernetDiscoveryServiceOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeAAAInterface
com.sheer.imo.keys.IEthernetFlowDomainOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeBillingInstanceProperties
com.sheer.imo.keys.IH248ControlInterfaceOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeBillingProperties
com.sheer.imo.keys.IH248ControllerOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeRadiusClientProperties
com.sheer.imo.keys.IH248InterfaceForDbeOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeRadiusServerProperties
com.sheer.imo.keys.IH248InterfaceOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeSdpMatchTable
com.sheer.imo.keys.IH248Oid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeSdpPolicyTable
com.sheer.imo.keys.IH248ProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.billing.ISbeSdpPolicyTable
com.sheer.imo.keys.IH323AdjacencyOid	com.sheer.imo.technologies.vendors.cisco.sbc.blacklists.ISbeConfiguredBlacklistEntry
com.sheer.imo.keys.IH323Oid	com.sheer.imo.technologies.vendors.cisco.sbc.blacklists.ISbeCurrentBlacklisting
com.sheer.imo.keys.IH323TimerOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IAAA
com.sheer.imo.keys.IHeaderProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IAAAInterface
com.sheer.imo.keys.IHuntingTriggerOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IAccounting
com.sheer.imo.keys.ILayerAdditionalDetailsAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IAuthentication
com.sheer.imo.keys.ILayerDetailsOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IBilling
com.sheer.imo.keys.ILldpNeighborOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IBillingInstance
com.sheer.imo.keys.ILldpServiceOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IBillingInstanceStatistics
com.sheer.imo.keys.IMGCOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IBlackList

Table 14 IMOs Added in Cisco ANA 3.6.7 (continued)

IMO Name	IMO Name
com.sheer.imo.keys.IMediaAddressOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ICacPolicy
com.sheer.imo.keys.IMediaGatewayOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ICallPolicy
com.sheer.imo.keys.IMethodProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ICodecList
com.sheer.imo.keys.INetworkServiceOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ICurrentBlacklisting
com.sheer.imo.keys.INetworkVlanOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH248
com.sheer.imo.keys.INetworkVlanStandaloneFlowPointsAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH248Controller
com.sheer.imo.keys.INetworkVlanSwitchingEntitiesAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH248Interface
com.sheer.imo.keys.IOptionProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH248InterfaceForDbe
com.sheer.imo.keys.IPairedImoOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH248Profile
com.sheer.imo.keys.IParameterProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH323
com.sheer.imo.keys.IPhysicalLayerAggregationContainerOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH323Adjacency
com.sheer.imo.keys.IPhysicalLayerAggregationOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IH323Timer
com.sheer.imo.keys.IPolicyOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IHeaderProfile
com.sheer.imo.keys.IPortEfpOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IHuntingTrigger
com.sheer.imo.keys.IPortEfpRelationOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IMediaAddress
com.sheer.imo.keys.IPseudowirePropertiesOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IMediaGateway
com.sheer.imo.keys.IPtpInterfaceOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IMethodProfile
com.sheer.imo.keys.IPtpServiceOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IOptionProfile
com.sheer.imo.keys.IQosProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IParameterProfile
com.sheer.imo.keys.IRecoveredClockOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IPolicy
com.sheer.imo.keys.IReferencedBridgeAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IQosProfile

Table 14 IMOs Added in Cisco ANA 3.6.7 (continued)

IMO Name	IMO Name
com.sheer.imo.keys.IReferencedStpInstanceInfoAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISDP
com.sheer.imo.keys.IReferencingEthFlowPointsAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISIP
com.sheer.imo.keys.IReferencingNetworkVlanAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISipAccount
com.sheer.imo.keys.IReferencingSwitchingEntityAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISipAdjacency
com.sheer.imo.keys.IRootBridgeDecoratorAspectOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISipAdjacencyGroup
com.sheer.imo.keys.ISBEOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISipProfile
com.sheer.imo.keys.ISDPOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.ISipTimer
com.sheer.imo.keys.ISIPOid	com.sheer.imo.technologies.vendors.cisco.sbc.categorynode.IVdbe
com.sheer.imo.keys.ISbcAccountOid	com.sheer.imo.technologies.vendors.cisco.sbc.codecs.ISbeCodecList
com.sheer.imo.keys.ISbcAdjacencyEndOid	com.sheer.imo.technologies.vendors.cisco.sbc.codecs.ISbeCodecListEntry
com.sheer.imo.keys.ISbcAdjacencyGroupOid	com.sheer.imo.technologies.vendors.cisco.sbc.common.IDBE
com.sheer.imo.keys.ISbcH248ControlInterfaceOid	com.sheer.imo.technologies.vendors.cisco.sbc.common.ISBE
com.sheer.imo.keys.ISbcH323AdjacencyEndOid	com.sheer.imo.technologies.vendors.cisco.sbc.common.ISbcAccount
com.sheer.imo.keys.ISbcSipAdjacencyEndAuthRealmOid	com.sheer.imo.technologies.vendors.cisco.sbc.common.ISbcService
com.sheer.imo.keys.ISbcSipAdjacencyEndOid	com.sheer.imo.technologies.vendors.cisco.sbc.h248ControlInterface.IDbeH248Profile
com.sheer.imo.keys.ISbeAAAInterfaceOid	com.sheer.imo.technologies.vendors.cisco.sbc.h248ControlInterface.IDbeMGC
com.sheer.imo.keys.ISbeBillingInstancePropertiesOid	com.sheer.imo.technologies.vendors.cisco.sbc.h248ControlInterface.ISbcH248ControlInterface
com.sheer.imo.keys.ISbeBillingInstanceStatisticsOid	com.sheer.imo.technologies.vendors.cisco.sbc.h248ControlInterface.ISbeMediaGateway
com.sheer.imo.keys.ISbeBillingPropertiesOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeCacPolicySet
com.sheer.imo.keys.ISbeCacPolicySetOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeCacPolicyTable
com.sheer.imo.keys.ISbeCacPolicyTableOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeCacRuleEntry

Table 14 IMOs Added in Cisco ANA 3.6.7 (continued)

IMO Name	IMO Name
com.sheer.imo.keys.ISbeCacRuleEntryOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeCallPolicySet
com.sheer.imo.keys.ISbeCallPolicySetOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeCallPolicyTable
com.sheer.imo.keys.ISbeCallPolicyTableOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeCallRuleEntry
com.sheer.imo.keys.ISbeCallRuleEntryOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbePolicyEntryStatistics
com.sheer.imo.keys.ISbeCodecListEntryOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbePolicySet
com.sheer.imo.keys.ISbeCodecListOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbePolicyTable
com.sheer.imo.keys.ISbeConfiguredBlacklistEntryOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbePolicyTableStatistics
com.sheer.imo.keys.ISbeConfiguredBlacklistOid	com.sheer.imo.technologies.vendors.cisco.sbc.policy.ISbeRuleEntry
com.sheer.imo.keys.ISbeCurrentBlacklistingOid	com.sheer.imo.technologies.vendors.cisco.sbc.qos.ISbeQosProfile
com.sheer.imo.keys.ISbeGlobalHuntingTriggerListOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipHeaderProfile
com.sheer.imo.keys.ISbeH323PropertiesOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipHeaderProfileEntry
com.sheer.imo.keys.ISbeMediaGatewayOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipHeaderProfileHeader
com.sheer.imo.keys.ISbePolicyEntryStatisticsOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipMethodProfile
com.sheer.imo.keys.ISbePolicySetOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipMethodProfileMethod
com.sheer.imo.keys.ISbePolicyTableOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipOptionProfile
com.sheer.imo.keys.ISbePolicyTableStatisticsOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipParameterProfile
com.sheer.imo.keys.ISbeQosProfileOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipParameterProfileEntry
com.sheer.imo.keys.ISbeRadiusClientPropertiesOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipProfile
com.sheer.imo.keys.ISbeRadiusServerPropertiesOid	com.sheer.imo.technologies.vendors.cisco.sbc.signaling.ISbeSipTimerProperties
com.sheer.imo.keys.ISbeRuleEntryOid	com.sheer.imo.topology.IVlanSnapshot
com.sheer.imo.keys.ISbeSdpMatchTableOid	com.sheer.imo.topology.IVtpSnapshot

IMOs Changed

Table 15 IMOs Changed in Cisco ANA 3.6.7

IMO	Field	Method	Change Type	Old Value	New Value
IBOSUser	EXTERNAL_USER_PASS		Added		
		isEmergency	Added		
		isExternal	Added		
		setEmergency	Added		
		setExternal	Added		
IBridge		getStpInstanceInfo	Added		
		getVlanId	Added		
		setStpInstanceInfo	Added		
		setVlanId	Added		
ICustomer		addContainedVlans	Added		
		getContainedVlans	Added		
		removeContainedVlans	Added		
		setContainedVlans	Added		
IDataLinkLayer		getDiscoveryProtocols	Added		
		setDiscoveryProtocols	Added		
IFWComponent		removeLogicalSons	Added		
		addLogicalSons	Signature changed	IConnectionTerminationPoint	IConnectionTerminationPoint []
IHierarchyNode		removeChildren	Added		
ILdpPeerDiscoverySource		getMplsInterface	Added		
		setMplsInterface	Added		
		getMplsXID	Removed		
		setMplsXID	Removed		
ILink	LINK_TYPE_LAG		Added		
	LINK_TYPE_SERVICE		Added		
	LINK_TYPE_VLAN		Added		
	LINK_TYPE_VPN_IPV6		Added		
		getConnectionInformation	Added		
		setConnectionInformation	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
ILocalSwitchingEntry		getLocalSwitchingEntryKey	Return type changed	Object	String
		setLocalSwitchingEntryKey	Signature changed	Object	String
ILogicalRoot		getPhysicalLayerAggregationContainers	Added		
		setPhysicalLayerAggregationContainers	Added		
IManagedElement		getElementTypeId	Added		
		setElementTypeId	Added		
IMplsEntry		getAddress	Added		
		getNetMask	Added		
		setAddress	Added		
		setNetMask	Added		
		getOutInterface	Return type changed	IConnectionTerminationPointOid	INEOid
		setOutInterface	Signature changed	IConnectionTerminationPointOid	INEOid
IPhysicalLayer	S_LOOPBACK		Added		
IPortConnector		getManaged	Added		
		getStatus	Added		
		setManaged	Added		
		setStatus	Added		
IReferencingCustomersAspect		getReferencingCustomer	Added		
IRoutingEntry		getPrefixLength	Added		
IScript		addTabPages	Added		
		getTabPages	Added		
		removeTabPages	Added		
		setTabPages	Added		
IScriptParameter		getPage	Added		
		getTooltip	Added		
		isRequired	Added		
		setPage	Added		
		setRequired	Added		
		setTooltip	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
ISoftProperty		isLocal	Added		
		setLocal	Added		
IVcCrossConnect		getInPort	Return type changed	IPortConnector	IPhysicalLayer
		getOutPort	Return type changed	IPortConnector	IPhysicalLayer
		setInPort	Signature changed	IPortConnector	IPhysicalLayer
		setOutPort	Signature changed	IPortConnector	IPhysicalLayer
IVrf		getVrfV6Table	Added		
		setVrfV6Table	Added		
IClientMultiPathInformation		getInnerVLAN	Added		
		getMACAddress	Added		
		getOuterVLAN	Added		
		setInnerVLAN	Added		
		setMACAddress	Added		
		setOuterVLAN	Added		
IIMAGroupOid			Inheritance changed	IFWComponentOid	IPhysicalLayerAggregationOid
		getId	Removed		
		setId	Removed		
ILocalSwitchingEntryOid		setLocalSwitchingEntryKey	Signature changed	Object	String
ISbcServiceOid		getSbcServiceName	Added		
		setSbcServiceName	Added		
ITopologicalLinkOid		getLinkType	Added		
		setLinkType	Added		
IElementManagement		getIsActionNotAllowed	Added		
		setIsActionNotAllowed	Added		
IExternalLaunch		addParameter	Added		
		removeParameter	Added		
		addParameters	Removed		
		removeParameters	Removed		
IGlobalSettingsManagement		getAuthenticationMethod	Added		
		setAuthenticaionMethod	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IMC	OPER_STATUS_DOWN		Added		
	OPER_STATUS_UNREACHABLE		Added		
	OPER_STATUS_UP		Added		
IAtm		getShaper	Added		
		setShaper	Added		
IBgpEntry		getPeerLocalAddr	Added		
		setPeerLocalAddr	Added		
IBgpNeighbourEntry		getAddressFamiliesInfo	Added		
		getPeerLocalAddr	Added		
		setAddressFamiliesInfo	Added		
		setPeerLocalAddr	Added		
		getVrfName	Return type changed	int	String
		setVrfName	Signature changed	peerKeepAlive	vrfName
IDS0Bundle	S_ADMIN_STATUS		Added		
	S_OPER_STATUS		Added		
		getAdminStatusEnum	Added		
		getId	Added		
		getOperStatusEnum	Added		
		setAdminStatusEnum	Added		
		setId	Added		
		setOperStatusEnum	Added		
IDS1Pdh	S_LINE_CODE		Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IDSxPdh	S_LOOPBACK		Removed		
		getAlarmState	Added		
		getCableLength	Added		
		getInternationalBit	Added		
		getLineCodeEnum	Added		
		getNationalBits	Added		
		getRecoveredClockingId	Added		
		setAlarmState	Added		
		setCableLength	Added		
		setInternationalBit	Added		
		setLineCodeEnum	Added		
		setNationalBits	Added		
		setRecoveredClockingId	Added		
IDataLinkAggregation		addEfps	Added		
		getChannelAdminStatus	Added		
		getChannelOperStatus	Added		
		getEfps	Added		
		removeEfps	Added		
		setChannelAdminStatus	Added		
		setChannelOperStatus	Added		
		setEfps	Added		
IEthernet		getEfps	Added		
		setEfps	Added		
IIMAGroup			Inheritance changed	IFWComponent	IPhysicalLayerAggregation
		getClockMode	Added		
		getConfiguredBandwidth	Added		
		getFrameLength	Added		
		getGroupNumber	Added		
		getGroupState	Added		
		getImaVersion	Added		
		getMinimumNumberOfRxLinks	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IIMAGroup (cont.)		getMinimumNumberOfTxLinks	Added		
		getNumberOfActiveLinks	Added		
		getNumberOfConfiguredLinks	Added		
		setClockMode	Added		
		setConfiguredBandwidth	Added		
		setFrameLength	Added		
		setGroupNumber	Added		
		setGroupState	Added		
		setImaVersion	Added		
		setMinimumNumberOfRxLinks	Added		
		setMinimumNumberOfTxLinks	Added		
		setMinimumNumberOfActiveLinks	Added		
		setNumberOfConfiguredLinks	Added		
		getAdminStatusEnum	Removed		
		getContainingTPs	Removed		
		getOperStatusEnum	Removed		
		getPortType	Removed		
		getStatusChangedTime	Removed		
		setAdminStatusEnum	Removed		
		setOperStatusEnum	Removed		
		setPortType	Removed		
		setStatusChangedTime	Removed		
IIPInterface		addCarEntries	Added		
		addRateLimitEntries	Added		
		getAccessControl	Added		
		getCarEntries	Added		
		getRateLimitEntries	Added		
		removeCarEntries	Added		
		removeRateLimitEntries	Added		
		setAccessControl	Added		
		setCarEntries	Added		
		setRateLimitEntries	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IMplsTETunnel		getTunnelPolicyClass	Added		
		setTunnelPolicyClass	Added		
		getTunnelBandwidthKbps	Return type changed	int	long
		getTunnelOutInterface	Return type changed	IIpInterfaceOid	IMplsOid
		setTunnelBandwidthKbps	Signature changed	int	long
		setTunnelOutInterface	Signature changed	IIpInterfaceOid	IMplsOid
IPTPLayer2MplsTunnel		getLocalMTU	Added		
		getPreferredPathTunnel	Added		
		getPseudowireType	Added		
		getRemoteMTU	Added		
		setLocalMTU	Added		
		setPreferredPathTunnel	Added		
		setPseudowireType	Added		
		setRemoteMTU	Added		
IPortIpVlan		getInnerVlanId	Added		
		getOperationalState	Added		
		setInnerVlanId	Added		
		setOperationalState	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IPvstpInstanceInfo		getStpBridgeForwardDelay	Return type changed	int	TimeInterval
		getStpBridgeHelloTime	Return type changed	int	TimeInterval
		getStpBridgeMaxAge	Return type changed	int	TimeInterval
		getStpForwardDelay	Return type changed	int	TimeInterval
		getStpHelloTime	Return type changed	int	TimeInterval
		getStpMaxAge	Return type changed	int	TimeInterval
		setStpBridgeForwardDelay	Signature changed	int	TimeInterval
		setStpBridgeHelloTime	Signature changed	int	TimeInterval
		setStpBridgeMaxAge	Signature changed	int	TimeInterval
		setStpForwardDelay	Signature changed	int	TimeInterval
		setStpHelloTime	Signature changed	int	TimeInterval
		setStpMaxAge	Signature changed	int	TimeInterval
ISonetSdh		getFraming	Added		
		setFraming	Added		
IStpPortInfo		getStpDesignatedBridge	Added		
		getStpDesignatedPortIdentifier	Added		
		getStpPortBpduFilterState	Added		
		getStpPortBpduGuardState	Added		
		getStpPortIdentfier	Added		
		setStpDesignatedBridge	Added		
		setStpDesignatedPortIdentifier	Added		
		setStpPortBpduFilterState	Added		
		setStpPortBpduGuardState	Added		
		setStpPortIdentfier	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IStpService		getStpBackboneFastState	Added		
		getStpUplinkFastState	Added		
		setStpBackboneFastState	Added		
		setStpUplinkFastStage	Added		
		getStpBridgeForwardDelay	Return type changed	int	TimeInterval
		getStpBridgeHelloTime	Return type changed	int	TimeInterval
		getStpBridgeMaxAge	Return type changed	int	TimeInterval
		getStpForwardDelay	Return type changed	int	TimeInterval
		getStpHelloTime	Return type changed	int	TimeInterval
		getStpMaxAge	Return type changed	int	TimeInterval
		setStpBridgeForwardDelay	Signature changed	int	TimeInterval
		setStpBridgeHelloTime	Signature changed	int	TimeInterval
		setStpBridgeMaxAge	Signature changed	int	TimeInterval
		setStpForwardDelay	Signature changed	int	TimeInterval
		setStpHelloTime	Signature changed	int	TimeInterval
		setStpMaxAge	Signature changed	int	TimeInterval
ITunnelEdge		getType	Removed		
		setType	Removed		
ITunnelEntry		getTrafficProfile	Added		
		setTrafficProfile	Added		
ITunnelGre	S_KEEPALIVE		Added		
		getKeepaliveEnum	Added		
		getKeepaliveRetry	Added		
		getKeepaliveTime	Added		
		setKeepaliveEnum	Added		
		setKeepaliveRetry	Added		
		setKeepaliveTime	Added		

Table 15 IMOs Changed in Cisco ANA 3.6.7 (continued)

IMO	Field	Method	Change Type	Old Value	New Value
IVc		getInterfaceName	Added		
		setInterfaceName	Added		
IVlanEntry			Inheritance changed	IMO	INE
		getStpPortInfo	Added		
		setStpPortInfo	Added		
IVlanInterface		getAccess	Added		
		getAllowedVlans	Added		
		getVlanAdminType	Added		
		getVlanType	Added		
		setAccess	Added		
		setAllowedVlans	Added		
		setVlanAdminType	Added		
		setVlanType	Added		

Important Notes

This section includes the following topics:

Installation Notes

This section includes the following topics:

- Generating SSH Keys, page 42
- Backward Compatibility, page 42

For installation procedures, see the *Cisco Active Network Abstraction 3.6.7 Installation Guide*.

Cisco ANA 3.6.7 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 3.6.7 installation script.

New Java Version

Cisco ANA 3.6.7 provides Java version 1.4_19 on the product DVD, an upgrade from Java version 1.4_13.

After you install the Cisco ANA gateway and unit software, you must manually update the Java version to 1.4_19 on both the gateway and the unit. For more information, see the *Cisco Active Network Abstraction 3.6.7 Installation Guide*.

Upgrading to Cisco ANA 3.6.7

Before Upgrading to Cisco ANA 3.6.7

Cisco ANA 3.6.7 introduces IMO changes as described in IMO Model API Changes, page 24. Review these changes before upgrading to Cisco ANA 3.6.7 so that you know how any integration using the Cisco ANA North Bound Interface (NBI) is affected. We also recommend that you review the Best Practices for Integration BQL Parsing chapter in the *Cisco Active Network Abstraction Customization User Guide* to ensure that the integration is not affected by these changes.

Time Required for Upgrade

Upgrading to Cisco ANA 3.6.7 from an earlier version of Cisco ANA could take a long time on Cisco ANA servers that have a large number of alarms in the database. For example, on an enterprise-level server with 1 million alarms in the database, the upgrade might take approximately 90 minutes. The upgrade time is linear to the events volume in the database. Specifically, the upgrade time from Cisco 3.6.6 to Cisco 3.6.7 can be double the time. Consult Cisco Advanced Services to evaluate the upgrade time in your environment. If, in your case, the amount of alarms is greater than 1 million alarms altogether, we strongly recommend that you contact Cisco TAC for a consultation before you begin the upgrade process. This also affects downgrading from Cisco ANA 3.6.7 to earlier versions of Cisco ANA. See CSCta10859 for more details.

Cisco ANA 3.6.7 Post-Upgrade Migration Tasks

Cisco ANA 3.6.7 introduces a change to the structure of link OIDs. If you are upgrading to Cisco ANA 3.6.7 from an earlier version of Cisco ANA, the GUI clients:

- Will not display working hyperlinks in the Location field for any link events or link tickets that were created before the upgrade.
- Will not correlate clearing events for any link events or link tickets that were created before the upgrade.
- Will not display business tags that were associated with links.

If these changes affect you, please contact the Cisco Technical Assistance Center.

Cisco ANA 3.6.0 Postinstallation Script

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 3.6.7 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.

If new modeling was added for VNEs used in your environment, we recommend that you check your AVM memory allocations. Contact the Cisco ANA 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 3.6.7 Installation Guide*.

Backward Compatibility

Note the following with regard to backward compatibility of Cisco ANA 3.6.7 with existing installations of Cisco ANA 3.6:

- Before installing Cisco ANA 3.6.7, review the Best Practices for Integration BQL Parsing chapter in the *Cisco Active Network Abstraction 3.6.7 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 3.6.7 is Solaris 10. Cisco ANA 3.6.7 is compatible with the latest patch release as published by Sun on January 18, 2008 (cluster patch ID Generic_120011-14). For more information, see the *Cisco Active Network Abstraction 3.6.7 Installation Guide*.

Solaris Services and Components

Cisco ANA uses the Solaris services and components. You must not remove them. For more information, see the *Cisco Active Network Abstraction 3.6.7 Installation Guide*.

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
```

Device and Software-Specific Limitations

Table 16 describes caveats related to specific devices or versions of software.

Table 16 Device- and Software-Specific Limitations

Device Family	Element	Affected Software Version	Description
Cisco 6500 Series router	Supervisor Engine 32 module	Prior to Cisco IOS 12.2	Ports on Supervisor Engine 32 modules are not displayed in Cisco ANA NetworkVision. For more information, see CSCsm23483.
Cisco 6503 router	Cisco Multilayer Switch Feature Card 2A (MSFC2A)	Cisco IOS 12.2(33)SRD2	In Cisco ANA NetworkVision, the Status, Hardware Type, and Hardware Version fields for MSFC2A cards are not populated for Cisco 6503 devices running Cisco IOS version 12.2(33)SRD2. For more information, see CSCta00558.
Cisco 7600 Series router	Supervisor Engine 32 module	Prior to Cisco IOS 12.2	Ports on Supervisor Engine 32 modules are not displayed in Cisco ANA NetworkVision. For more information, see CSCsm23483.

Table 16 Device- and Software-Specific Limitations (continued)

Device Family	Element	Affected Software Version	Description
Cisco CRS-1 router	Cisco 1OC768-DPSK/C-O module	Cisco IOS XR 3.6.1 and 3.7.1	In Cisco ANA NetworkVision, the Cisco 1OC768-DPSK/C-O module is displayed as *Unknown Module* in the Hardware Type field. For more information, see CSCsz81415.
	DWDM port	Prior to Cisco IOS XR 3.6.3	In Cisco ANA NetworkVision, DWDM ports appear twice in Cisco CRS-1 devices that use software earlier than Cisco IOS XR version 3.6.3. This issue was resolved in Cisco IOS XR version 3.6.3, but occurs in earlier versions. For more information, see CSCsz70225.
	Gigabit Ethernet port	Prior to the following Cisco IOS XR versions: • 03.08.00.017i.BASE • 03.06.03.002i.BASE • 03.07.02.014i.BASE • 03.09.00.004i.BASE • 03.09.00.013i.BASE	Gigabit Ethernet ports are displayed under RP instead of Mgmt ports in Cisco ANA NetworkVision. For more information, see CSCsz13522.
	N/A	Prior to Cisco IOS XR 3.7	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.
Cisco GSR device	Fan	Cisco IOS XR 3.6.3	Fans in Cisco GSR devices running Cisco IOS XR 3.6.3 are not modeled in Cisco ANA NetworkVision. For more information, see CSCta32822.
	N/A	Cisco IOS XR 3.7.1	Cisco GSR devices running Cisco IOS XR software can exhibit flapping ATM bandwidth values in Cisco ANA when a change on a virtual channel occurs. For more information, see CSCta25148.
	Submodule	Cisco IOS XR 3.6.3	Subcard status values are incorrect in Cisco ANA for Cisco GSR devices running Cisco IOS XR 3.6.3. For more information, see CSCta15668.

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 ASR 1000, Cisco ASR 9000, Cisco 3750ME, and the Juniper M-Series.
- ipcore—The scheme used only for routers serving as Provider (P) or Provider Edge (PE) devices.

For supported device type and schemes table, see *Cisco Active Network Abstraction 3.6.7 Administrator Guide*.

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 3.6.7 Installation Guide*.

Online Help

The online help for Cisco ANA 3.6.7 has been tested using the following browsers:

- Microsoft Internet Explorer version 8
- Mozilla version 3.5.3
- Avant Browser version 11.7

Note The online help was not updated for Cisco ANA 3.6.7. The most current product documentation for Cisco ANA 3.6.7 is available on Cisco.com at: 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

For information on the maximum number of objects, links, tickets, and maps that Cisco ANA NetworkVision can display, contact your Cisco account representative.

Links in Maintenance Mode

When a link is placed in maintenance mode, the severity property of the physical layer link remains in the same state as it was before the link was placed in maintenance mode. The link property changes for other layers except for physical layer. You can view the link state in the maps displayed in Cisco ANA NetworkVision.

For example: When a fault occurs on a link that is not on maintenance mode. The link turns red. If the operator adds this link to maintenance mode to suppress further alarms. The link continues to remain in red as long as the link is in maintenance mode even though the fault in the physical link is rectified.

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 3.6.7 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 your Cisco account representative.

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 information for working with Cisco ANA Workflow Editor:

- Workflow Editor Template Naming Conventions, page 47
- Workflow Editor and Floating User Licenses, page 47

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.

Carrier Ethernet/MToP

For Cisco ANA 3.6.7, we recommend limiting Carrier Ethernet and MToP support to networks of approximately 350 devices. For Cisco ANA deployment services, contact Cisco Advanced Services.

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 and the Juniper devices.

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 17 identifies the open caveats in Cisco ANA 3.x.

Table 17 Open Caveats in Cisco ANA 3.x

Identifier	Title	Impact	Workaround	Release
CSCsy43084	Adding 2K devices to a map fails with an *Operation timed out* message	If you choose to add 2000 devices to a map, the following error message might be displayed: `Operation timed out while trying to execute command.`	None	3.6.7
CSCsy86830	GUI hangs when aggregating or disaggregating 1000 devices in 2000-device map	When using Cisco ANA NetworkVision, you might experience slow GUI performance, or the application might stop, if you aggregate or disaggregate 1000 devices in a map that contains 2000 devices.	None	3.6.7
CSCsz13811	Soft property publish displays incorrect behavior in the Local column	If you complete the following steps, Cisco ANA Soft Properties Manager displays the incorrect value in the Local column: 1. Add three VNEs. 2. Add a soft property to VNE1. 3. Publish the soft property on VNE1 to all VNEs. 4. Stop and then restart VNE2 and VNE3. 5. Right-click VNE2 and choose **Management > Soft Properties Management**. In the Local column, the value for the published soft property is true. 6. Add a new soft property to VNE2. 7. Right-click VNE2 and choose **Management > Soft Properties Management**. In the Local column, the value for the published soft property is now false.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz41149	Cisco CRS 8x10GE ports do not show missing Xenpak pluggables	For Cisco CRS devices running Cisco IOS XR software versions lower than 3.9 or 3.8.1, empty containers in Cisco 8x10GE and 160C48 modules are modeled as actual ports instead of missing pluggable ports.	None	3.6.7
CSCsz45231	Running workflow fails after starting AVM 66	Cisco ANA Manage occasionally indicates that AVM 66 is up even though not all of its services are up. You might encounter this situation when you deploy a workflow. If the AVM is not up as indicated, the following message is displayed: `The workflow service was not initialized properly.`	Wait a few seconds and then deploy the workflow again.	3.6.7
CSCsz50643	Exporting a soft property using a BQL command results in illegal argument exception	If you export a soft property using a BQL command, an illegal argument exception is displayed.	None	3.6.7
CSCsz50727	VLAN and bridge information is missing from Cisco ANA PathTracer over an Ethernet cloud	Cisco ANA PathTracer Layer 2 does not display VLAN or bridge information when crossing an Ethernet cloud.	None	3.6.7
CSCsz81028	Subinterface table is not updated on notifications	In Cisco ANA NetworkVision, if the interface properties window is open and changes occur on the subinterface, the subinterface properties are not updated in the window.	Select another item in logical inventory and return to the interface properties window.	3.6.7
CSCsz95158	Opening a map with many VPNs takes a long time	In Cisco ANA NetworkVision, opening a map with 50 VPNs, 255 links, and 408 sites can take approximately 30 seconds.	None	3.6.7
CSCta00592	Wrong slot number for Cisco WS-F6K-PFC3B feature card	In Cisco ANA NetworkVision physical inventory, the slot numbers for Cisco WS-F6K-PFC3B feature cards are incorrect.	None	3.6.7
CSCta13495	Cisco ANA PathTracer Layer 2 flow information is missing on Cisco ME 3400 Series devices	In Cisco ANA PathTracer, when a path passes a Cisco ME 3400 device, the device no longer is displayed in the PathTracer window.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCta17212	The **cmpctl** script does not always return an error message for illegal input	If you enter the **cmpctl** command with its options partially typed, no error message is given.	To ensure that **cmpctl** command options are fully and correctly typed, enter command alone (`cmpctl`) to view its manual.	3.6.7
CSCta33768	Local switching is not supported on physical interface scenarios	Local switching is supported only when both interfaces of Cisco CRS-1 devices are configured as subinterfaces. The following scenarios are not supported on Cisco ANA: • Both interfaces on Cisco CRS-1 devices are configured as physical interfaces. • One interface is configured as a physical interface and the other is configured as a subinterface.	None	3.6.7
CSCta46622	LAG topology between MSTP and PVSTP devices is not discovered	Link Aggregation (LAG) links are not discovered in Cisco ANA NetworkVision between devices when one of the devices is configured for Per-VLAN Spanning Tree Protocol (PVSTP) and the other device is configured for Multiple Spanning Tree Protocol (MSTP).	None	3.6.7
CSCta47166	Inconsistency between Path and Path Details possibly due to LAG	If you run Cisco ANA PathTracer between two switches, discrepancies exist between the information that is displayed in the content area and that displayed in Properties table of the Cisco ANA PathTracer window. These inconsistencies between the path and path details are possibly due to LAG.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release

CSCta54345	After adding LAG topology to an existing device, the map is not updated	If you remove and add LAG topology to devices, the map in Cisco ANA NetworkVision is not updated.
		For example, LAG topology is not updated if you complete the following steps:
		1. Add two devices with a LAG link between them to a map.
		2. Telnet to the devices and remove the LAG from the interfaces. For example:
		`-interface GigabitEthernet1/3`
		`no channel-group 1`
		In Cisco ANA NetworkVision, the LAG topology is deleted from the link.
		3. Telnet again to the device and add the LAG configuration to the interfaces again.
		The map does not reflect the addition of LAG.
			Clear topology persistency and then stop and restart the VNE.	3.6.7

CSCta56359	Part IDs are incorrect for pluggable Cisco 1000BaseSX modules	In Cisco ANA NetworkVision, the Part ID of SFP type GLC-SX-MM is incorrectly displayed as SFP-GE-S.	None	3.6.7
CSCta70258	IP SLA Trap Ticket information does not contain rttMonEchoAdminLSPSelecto	Cisco ANA EventVision does not show trap ticket information for the following field in the SNMP trap: iso.org.dod.internet.private.enterprises.cisco.ciscoMgmt.ciscoRttMonMIB.ciscoRttMonObjects.rttMonCtrl.rttMonEchoAdminTable.rttMonEchoAdminEntry.rttMonEchoAdminLSPSelector This situation occurs when IP SLA is configured on the router and rtr traps are configured to be sent to Cisco ANA.	Retrieve the attribute manually from the router in any of the following ways: • Use **snmp get** and **snmpwalk** commands. • Use other tools to retrieve the attribute. • Use CLI commands directly on the affected router.	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release

CSCta75219	Incorrect association on Cisco CRS devices	On Cisco CRS-1 devices, if DWDM is configured on port 0/0/0/0, the DWDM syslog message is incorrectly associated with a different port.
		For example, if DWDM is configured on TenGigE0/0/0/0 on a Cisco CRS device, the syslog message generated from port TenGigE0/0/0/0 is:
		`%L1-PMENGINE-4-TCA : Port DWDM 0/0/0/0 reports FEC BIT-EC(NE) PM TCA with current value 0, threshold 0 in current 15-min interval window`
		The port information 0/0/0/0 is passed to create the key. However, the port layer key is created for MgmtEth0/RP0/CPU0/0 as follows:
		`# SourceOID : = {[ManagedElement(Key=CRS79)][PhysicalRoot][Chassis][Shelf(ShelfNum=0)][Slot(SlotNum=32)][Module][Port(PortNumber=MgmtEth0/RP0/CPU0/0)][PhysicalLayer][Syslog]}`
		As a result, the syslog message is incorrectly associated with port MgmtEth0/RP0/CPU0/0.
			None	3.6.7

CSCta79386	Cisco GLC-BX-U module is not modeled in Cisco ANA	Cisco 7600 devices do not return the PID and vendor type values for Cisco GLC-BX-U pluggable ports in SNMP responses. As a result, the pluggable ports are not displayed in Cisco ANA NetworkVision physical inventory. Instead, under interface properties for the device, the media type for the Cisco GLC-BX-U module is displayed as BX10U. This is the only way to confirm that the Cisco GLC-BX-U is inserted in the device.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCta84916	Deleted VNE appears in Scope properties	In Cisco ANA Manage, if you add a new VNE to a new scope and then delete the VNE, the VNE still appears in the Scope Properties dialog box.	None	3.6.7
CSCta88891	When front module is Card Out, the back module is also shown as Card Out in Cisco CRS devices	If you remove a Cisco 20-1GE-FLEX or 42-1GE module from a front slot in a Cisco CRS device, a module from the back also displays a Card Out ticket and the Card Out alarm is issued. The Card Out tickets are displayed in Cisco ANA EventVision, and the alarm can be viewed in Cisco ANA NetworkVision physical inventory. This situation occurs on Cisco CRS devices running Cisco IOS XR 3.8.1 software.	None	3.6.7
CSCta94022	Local database installation fails if the previous server installation used a remote database	If you install a Cisco ANA gateway server on a Cisco ANA gateway that previously used a remote database, the installation fails.	None	3.6.7
CSCtb00410	MP-BGP: Notification received twice when BGP process is up	In Cisco ANA NetworkVision, the notification window show two entries for a change in BGP state.	None	3.6.7
CSCtb05672	STP does not display VLANs when switching from MSTP to PVSTP	If you change the spanning tree configuration from MSTP to PVSTP for a VNE you are viewing in Cisco ANA NetworkVision, the VNE is not refreshed.	Close and then reopen the VNE in Cisco ANA NetworkVision.	3.6.7
CSCtb36730	Disk capacity thresholds in registry cannot be modified	If you change disk capacity thresholds in the registry, the default values of 80% and 90% are automatically reinstated.	None	3.6.7
CSCtb39071	Exception in Protocol Handler while setting status for fan and PS	Cisco ANA NetworkVision displays the status Unknown for fans and Power Entry Modules (PEMs) in Cisco GSR devices running Cisco IOS XR software.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb40771	Error when trying to get a big list of workflows in Cisco ANA Manage	In Cisco ANA Manage, if you attempt to list more than 5000 workflows, the following error is displayed: `ERROR(5142): The Workflow service (AVM66) is not loaded or busy.`	None	3.6.7

CSCtb40790	Wrong physical links are discovered with Cisco Discovery Protocol (CDP) when service instances are configured with encapsulation untagged	Cisco ANA discovers the wrong links with the following configuration:
		• CDP is enabled on all interfaces.
		• The link UPE11-TX - port 1/1/2 < > AGG-7604-TX port 3/0/3 exists.
		• AGG-7604-TX port 3/0/3 is configured as follows:
		`service instance 1 ethernet`
		`encapsulation untagged`
		`xconnect 172.255.3.169 999999 encapsulation mpls`
		• The cross-connect is to AGG-7606-TX.
		• The link AGG-7606-TX port 1/0/2 < > UPE9-TX: port 1/1/2 exists.
		• AGG-7606-TX port 1/0/2 configuration is:
		`service instance 1 ethernet`
		`encapsulation untagged`
		`xconnect 172.255.3.175 999999 encapsulation mpls`
		The results of this configuration are:
		• Cisco ANA discovers the link UPE9-TX: port 1/1/2 < > UPE11-TX - port 1/1/2 in error.
		• Cisco ANA does not discover the following links:
		– UPE11-TX - port 1/1/2 < > AGG-7604-TX port 3/0/3
		– AGG-7606-TX port 1/0/2 < > UPE9-TX: port 1/1/2
			None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb41786	SFP-GE-S/ L/ Z not modeled in Cisco ANA for Cisco IOS XR software versions 3.71 and 3.6.3	If a Cisco GSR device is running Cisco IOS XR software lower than version 3.8.1, Cisco SFP-GE-S, SFP-GE- L, and SFP-GE- Z modules are not displayed in Cisco ANA NetworkVision.	None	3.6.7
CSCtb44336	Bridge without interfaces is not discovered as an empty switching entity (inconsistent)	In Cisco ANA NetworkVision, if you load a VNE associated with a bridge that does not contain interfaces, the switching entity is not displayed in a consistent way. For example, the switching entity might be displayed in either of the following ways or not displayed at all: • Under a network VLAN that is not associated with an Ethernet flow domain. • Under a VLAN that is associated with the Ethernet flow domain that other bridges in the same device are associated with.	None	3.6.7
CSCtb46558	VRF container in VNE inventory disappears when VNE is restarted	In Cisco ANA NetworkVision, the VRF container is not displayed when the VNE is shut down and restarted. The situation occurs only when the polling cycles of the configuration and the status are lowered to the 30-second minimum.	Use one of the following workarounds: • Restart the VNE until the VRF container appears. • Raise the polling cycles and restart the VNE.	3.6.7
CSCtb49106	Gi1/9 port is not modeled on Cisco WS-SUP32-GE-3B 9-port Supervisor Engine 32	One of the fixed ports under the Cisco WS-SUP32-GE-3B 9-port Supervisor Engine 32 module is not modeled in Cisco ANA. For the Cisco WS-SUP32-GE-3B 9-port Supervisor Engine 32 module, which has both fixed and pluggable ports, entPhysicalParentRelPosition are the same for both one of the fixed ports and a pluggable port container. As a result, the fixed port is not modeled in Cisco ANA.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb52593	Upgrading from Cisco ANA 3.6.6 to 3.6.7 fails on the initial attempt	If a server is running Cisco ANA 3.6.6 and you attempt to upgrade to Cisco ANA 3.6.7 using the **perl ./update.pl -r** command, the following message is displayed: `SP2-0310: unable to open file "/export/home/sheer4/Main/scripts/patch/ANA3.6.7_db_update_rollback.sql"` Subsequent attempts to upgrade using the same command are successful.	The workaround depends on whether you have already tried to upgrade to Cisco ANA 3.6.7 or not: • Before upgrading—Open the ANA3.6.7.jar file and copy the db_rollback.sql script to the ~Main/scripts/patch directory before running **update.pl** with the -r option. • After failing to upgrade—Reenter the following command: `perl ./update.pl -r`	3.6.7
CSCtb55014	Cisco VWIC2-1MFT-G703 module hardware type is incorrectly modeled	For Cisco VWIC2-1MFT-G703 modules in Cisco 2800 routers, Cisco ANA NetworkVision displays the hardware type Wvic-2dsu-E1-G703 instead of cevWvic2dsuE1DiG703.	None	3.6.7
CSCtb55016	Missing notifications for adding VLAN interfaces	In Cisco ANA NetworkVision, if you remove a VLAN and add it again, the VLAN snapshot is occasionally not updated with the new VLAN interfaces. As a result: • Ethernet flow points (EFPs) might not appear in the VLAN map view. • The associated VNE displayed in an open Cisco ANA NetworkVision window is not updated with the new interfaces on the bridge.	Restart the VNE.	3.6.7
CSCtb56656	Module status is displayed as OK for Cisco 10000 Series router at all times	The status of a module in a Cisco 10000 Series router is displayed as OK in Cisco ANA NetworkVision, even if the module is removed from the router. This situation occurs on Cisco 10000 Series routers running Cisco IOS version 12.2(33)SB1.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb59936	Card Out alarm is not received and physical inventory is not polled for Cisco GSR XR devices	If a card is removed from a Cisco GSR XR device, the Card Out service alarm is not generated and Cisco ANA NetworkVision does not poll the physical inventory.	None	3.6.7
CSCtb62408	Cefc-related traps for submodules are associated with main module	In Cisco ANA NetworkVision, when a Card Down or Card Out is performed on submodule 0, the cefc-related traps are associated with the main module instead of the submodule. This situation occurs for submodule 0 only.	None	3.6.7
CSCtb67581	Some subcard modeling fails for Cisco GSR-XR devices when status is RESET	Some shared port adapters (SPAs) and line cards in Cisco GSR devices running Cisco IOS XR software are not modeled in Cisco ANA NetworkVision. This situation occurs in Cisco GSR devices when the SPA status is RESET.	None	3.6.7
CSCtb70082	Cisco PathTracer fails in the Cisco ANA GUI while crossing (reentering) the same device twice	Cisco ANA PathTracer fails to open when it crosses or enters the same device twice.	None	3.6.7
CSCtb70312	Duplicated syslogs in Cisco ANA EventVision	Duplicate syslog messages appear in Cisco ANA EventVision.	None	3.6.7
CSCtb78780	BGP neighbor entries are not modeled for Cisco 7200 devices	In Cisco ANA NetworkVision, BGP neighbors are not modeled if the local router BGP session IP address is an IPv6 address.	None	3.6.7
CSCtb81646	Cisco ANA PathTracer fails through VPLS	Cisco ANA PathTracer fails when traversing Cisco 7600 series devices with Distributed Forwarding Cards (DFCs) due to nonpersistent dynamic MAC entries.	Enter the following command under the global configuration mode to synchronize dynamic MAC entries to the mac-address table: `mac-address-table synchronize`	3.6.7
CSCtb81781	Cisco ASR 9000 with large configuration is not modeled; the VNE is unreachable	If a Cisco ASR 9000 device is configured with a large configuration, the device is not modeled in Cisco ANA and becomes unreachable.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb82793	Topology creation fails due to encapsulation mismatch in Cisco CRS devices	Due to the improper encapsulation, link discovery and topology formation fails for Cisco CRS devices that are configured with Point-to-Point Protocol (PPP) encapsulation and that are running Cisco IOS XR 3.5.x, 3.6.x, or 3.7.x. As a result, Cisco ANA incorrectly identifies encapsulation as High-Level Data Link Control (HDLC) instead of PPP on Packet Over SONET (POS) interfaces.	None	3.6.7
CSCtb83150	Missing LAG Link Down/Up service alarm	In Cisco ANA NetworkVision, if the status of a LAG link is changed in logical inventory: • No LAG Link Down service alarm is generated. • The VLAN topology is not affected.	None	3.6.7
CSCtb85106	LLDP logical inventory is not updated	If you have two Link Layer Discovery Protocol (LLDP) links (that is, two ports on a device configured with LLDP) and you switch them, thereby crossing the links, the information is not reflected in logical inventory, and the links in the topology are incorrect.	Enter the following command on the device: `run clear lldp table`	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb85143	Exception is displayed: Ethernet/unicast packets Rx/Tx problem loading registration	When two devices are connected to each other through more than one link, and the links between them are switched, CDP and LLDP are not updated. The following exception is displayed in the device logs: `ERROR [09 09 2009 09:59:59.910 IDT] - RegistrationLoader. loadRegistrationCreationInfo - 169.254.117.250 with key avm600/agents/da/Topo1/dcs/registrations/com.sheer.metrocentral.coretech.ethernet.dc.Ethernet/unicast packets rx tx Problem loading registration unicast packets rx tx got exception java.lang. NumberFormatException: cant format NULL value` `at com.sheer.system.os. services.registry2.RegistryServiceUtil.translateToBoolean(RegistryServiceUtil.java:258)` `at com.sheer.system.os. services.agentregistry.AgentRegistryServiceImpl.translateEntryToBoolean(AgentRegistryServiceImpl.java`	None	3.6.7
CSCtb85955	Flood starting after the first hop of the flow fails	In Cisco ANA PathTracer, a MAC address-based trace fails to find the destination. If a MAC destination address appears at the starting point of the path, but does not appear in one of the next hops, Cisco ANA PathTracer fails to find the MAC destination address.	Make sure all bridge tables are updated with the MAC destination address. That is, make sure there is constant traffic through the path.	3.6.7
CSCtb87470	Frequent port counter polling in legacy code can bring down Cisco ANA and router	If a retrieval specification is registered on port counters to receive notification upon changes, and the retrieval spec is configured with a depth value other than 0 (zero), Cisco ANA GUI clients might hang and VNE AVMs might not be able process requests.	Ensure that the retrieval spec is configured with the depth of 0.	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb87474	Pseudowire OID change can cause backward compatibility issues	If you upgrade to Cisco ANA 3.6.7 and the existing database contains pseudowire information from a previous Cisco ANA release: • The existing pseudowire OIDs of the previous release are not migrated to the new pseudowire OIDs. • Existing data might be lost or inconsistent with new data.	None	3.6.7
CSCtb88485	VLAN discovery is not modeled correctly in Delete Reconcile mode	When Delete Reconcile mode is enabled in the registry, a VLAN discovery business object is deleted instead of receiving a reconciliation aspect. However, in Cisco ANA 3.6.7, when Delete Reconcile mode is enabled, the initial discovery (the first time VNEs are loaded) omits some VLANs and contains incorrect merges.	None	3.6.7
CSCtb97015	For devices running Cisco IOS XR 3.5.3, pseudowire tunnel status is not modeled	For devices running Cisco IOS XR 3.5.3, the status of a pseudowire end-to-end emulation (PWE3) tunnel is not displayed during initial modeling. PWE3 tunnel status is displayed during the first expedition phase of modeling. The expedition phase can occur when the status of a PWE3 tunnel changes. This situation is seen only on devices running Cisco IOS XR 3.5.3.	None	3.6.7
CSCtb99066	Cisco CRS-1 physical inventory is not discovered after upgrading from Cisco IOS XR 3.6.1 to Cisco IOS XR 3.7.1	The physical inventory for Cisco CRS-1 devices is not populated in Cisco ANA NetworkVision after the device is upgraded from Cisco IOS XR 3.6.1 to Cisco IOS XR 3.7.1.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtc04343	Multiple ATM VCs are not discovered in Cisco ANA	Cisco ANA does not discover multiple ATM virtual connections (VCs) for encapsulation type AAL5/AAL0. This symptom also exists in prior releases of Cisco ANA. This situation occurs if you configure more than 32 contiguous virtual channel identifiers (VCIs) on the same interface with the same virtual path identifier (VPI).	On an interface with the same VPI, configure VCIs in either of the following ways: • Using 1 through 31. • Using 1, 34, 67, and so on. That is, the VC value anding with 31(0x11111) should not be the same as any other VCI if the VPI and interface name are the same.	3.6.7
CSCtc10046	A scale limitation in pseudowire tunnels	Cisco ANA supports high availability environments of the following sizes: • For MPLS, up to 800 tunnels on 15,000 devices with 300 cores. • For Carrier Ethernet, up to 1,500 tunnels on 350 devices. If you have fewer devices in your setup, you can increase the number of tunnels.	Contact Cisco Technical Support for more information.	3.6.7
CSCtc25248	During Cisco ANA 3.6.6 to Cisco ANA 3.6.7 migration, maintenance link data is erased	When upgrading from Cisco ANA 3.6.6 to Cisco ANA 3.6.7, data related to the maintenance link feature is erased.	None	3.6.7
CSCtc34876	After Cisco ANA 3.6.6 to Cisco ANA3.6.7 migration, old business tags are not displayed	When upgrading Cisco ANA 3.6.6 to Cisco ANA 3.6.7, business tags that were attached to links before the upgrade are not displayed in the Cisco ANA GUI.	None	3.6.7
CSCtc34883	After Cisco ANA 3.6.6 to Cisco ANA3.6.7 migration, hyperlinks for old tickets do not work	When upgrading Cisco ANA 3.6.6 to Cisco ANA 3.6.7, the Location hyperlink for an old event or ticket do not work in the Cisco ANA GUI. You can still open the ticket and view the ticket or event information, correlation, and so on.	None	3.6.7
CSCtc34884	After Cisco ANA 3.6.6 to Cisco ANA3.6.7 migration, old Link Up events are not cleared	After upgrading Cisco ANA 3.6.6 to Cisco ANA 3.6.7, the Link Up event covering an old Link Down ticket (after upgrade) is not cleared in the system.	None	3.6.7

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsx78454	Low GUI performance while working with a maximum sized map	When using Cisco ANA NetworkVision, you might experience slow GUI performance when working with a map of the maximum size. The maximum size of a map is defined as containing: • 8,000 devices • 10,000 links • 5,000 tickets	None	3.6.6
CSCsy21449	Layer 3 ports cause MAC-based topology to create the wrong links	If you have Layer 3 Cisco 6500 or Cisco 7600 devices in the network and they do not have unique MAC addresses for each port, the physical topology is discovered incorrectly and ports are erroneously connected in Cisco ANA.	Disable MAC-based topology discovery in Cisco ANA using the following steps: 1. Run `./runRegTool.sh -gs 127.0.0.1 set 0.0.0.0 "site/ciscorouter2/76xx/ipcore/software version/default version/amsi/topology/Ethernet/MacTestEnable" false` 2. Restart the gateway.	3.6.6
CSCsy95034	Cisco MWR 2941: Serial number for motherboard is missing	If you add a VNE for a Cisco MWR 2941 running Cisco IOS 12.4(19)MR02, and then, in Cisco ANA NetworkVision, choose **Physical Inventory > Chassis > Slot**, the serial number for the motherboard is not displayed.	None	3.6.6
CSCsz11805	Physical port is not getting modeled for Cat4503-E	FastEthernet1 ports are not modeled for Cisco Catalyst 4503-E devices in Cisco ANA NetworkVision physical inventory.	None	3.6.6
CSCsz16179	Cisco ANA does not set transceiver-related properties for some cards	Cisco ANA does not set transceiver-related properties for cards affected by Transceiver Hierarchy-related MIB changes after the Cisco IOS 12.2(33)SRD1 release.	None	3.6.6
CSCsz16471	Ports under Cisco CRS-FCC-SC-22GE modules are not displayed	For Cisco CRS-1 devices running Cisco IOS XR 3.8.0 software, ports under Cisco CRS-FCC-SC-22GE module are not displayed in Cisco ANA NetworkVision physical inventory.	None	3.6.6

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz23198	DS0 Bundle and Layer 2 encapsulation modeling for controller ports in Cisco GSR XR devices	Cisco ANA NetworkVision does not display channelized port properties for DS0 bundle and Layer 2 encapsulations if the mode is T1/E1.	None	3.6.6
CSCsz33626	Dynamic VLAN type is shown as static VLAN	For Cisco Catalyst 4503 devices, the dynamic VLAN setup is displayed as static VLAN in Cisco ANA NetworkVision.	None	3.6.6
CSCsz34083	Port is not displayed in link aggregation if it is configured with *on* mode	In Cisco ASR 900 devices, an Ethernet link aggregation port is not displayed if it is configured with bundle mode as ON. For example, `bundle id 73 mode on`.	None	3.6.6
CSCsz49778	Card Down ticket is not cleared	A Card Down ticket is not cleared when the card is inserted in the device. This issue occurs when you: 1. Add a VNE in Cisco ANA Manage. 2. Invoke Cisco ANA NetworkVision and select a device. 3. Choose **Physical Inventory > Chassis > Slot**. 4. Pull out the module. Card Down ticket is generated in the Tickets Pane. 5. Insert the module. Even after several minutes, the Card Down ticket is not cleared.	None	3.6.6
CSCsz56260	For DWDM modules, laser status is not modeled and G.709 status is incorrect	Cisco ANA does not model the laser status, and G.709 status is modeled with a set of signals instead of *enable/disable*.	None	3.6.6
CSCsz61942	Filter ticket does not work in VPN map view	In Cisco ANA NetworkVision, if you right-click a link in VPN map view and then choose **Filter Ticket**, no results are displayed.	None	3.6.6
CSCsz69271	Client memory got to 99% after it stayed open for the weekend	The memory consumption reached 99% when Cisco ANA NetworkVision application ran continuously for a few days.	Relaunch Cisco ANA NetworkVision.	3.6.6
CSCsz69883	VNEs are stuck in the Initializing state	When you load VNEs using the **vne_creation_script.pl** script, the VNEs remain in the Initializing state.	Either restart the units or load a few VNEs at a time.	3.6.6

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz76766	Attributes such as clocking, framing, loopback, and scrambling are not populated	Cisco ANA does not display loopback, scrambling, clocking, or framing details for Cisco 7200 devices running Cisco IOS version 12.2(33)SRD1.	None	3.6.6
CSCta17224	Opened a large VPN and got a Time Out message, but the operation continued	After opening a VPN map in Cisco ANA NetworkVision, a Time Out message was displayed, but the map opened a few moments later. The map contained: • 501 VPNs • 2505 links • 4008 sites	None	3.6.6
CSCta18393	The same VPN appears twice in a map	If two users add the same VPN to the same map simultaneously in Cisco ANA NetworkVision, the map appears twice in the map.	None	3.6.6
CSCtb16314	Cisco ANA is not able to discover interfaces in inventory when GBIC is missing	For Cisco 4506 devices, Cisco ANA NetworkVision does not discover interfaces in inventory when the Gigabit Interface Converter (GBIC) is missing.	None	3.6.6
CSCtb33211	Fan tray for Cisco CRS device shows unknown status	For Cisco CRS-1 devices running Cisco IOS XR 3.7.1 software, Cisco ANA NetworkVision physical inventory displays the fan tray main module with the status OK, but it displays the status Unknown for each individual fan tray.	None	3.6.6
CSCtb54145	Redundant Martini tunnel status is not updated	If redundant Martini is being used, if you switch from the active tunnel to the inactive tunnel, the new port tab is not updated in Cisco ANA NetworkVision.	Stop and then restart the VNE.	3.6.6

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release

CSCtb67551	If tunnel interface contains #, it breaks LSE info	If the hash symbol (#) appears in a tunnel description, the LSE information that is displayed in Cisco ANA NetworkVision inventory is incorrect.
		For example, if you include a description similar to the following for a tunnel, LSE information is not displayed correctly in Cisco ANA NetworkVision:
		`interface Tunnel61`
		` description Test#1`
			Do not include hash symbols in tunnel descriptions.	3.6.6

CSCtb67583	CPU levels on Cisco CRS-1 devices increase when managed by Cisco ANA 3.6.6	You might see high CPU levels on Cisco CRS-1 devices when you are using Cisco ANA 3.6.6.	None	3.6.6
CSCtb67699	Static link cannot be deleted from Cisco ANA NetworkVision GUI	In Cisco ANA NetworkVision, if you create a static link between two ports that have already been assigned to a dynamic link, you cannot delete the static link.	None	3.6.6
CSCtb67791	*Alarm Ticket: Couldn't be found* message displayed when attempting to remove tickets	In Cisco ANA NetworkVision, when you attempt to clear and remove all tickets, some tickets might remain. If you attempt to remove these remaining tickets, a Java exception is displayed, stating that the alarm tickets could not be found even though you can open and view them.	None	3.6.6
CSCtb70670	*Failed to create db statement* error is displayed in Cisco ANA EventVision	After successfully logging into Cisco ANA GUI applications, you might encounter both of the following items: • In Cisco ANA NetworkVision, an hourglass icon. • In Cisco ANA EventVision, the following message when you choose the Syslog, Ticket, V1 Trap, or V2-V3 Trap tab: `Failed to create db statement`	None	3.6.6
CSCsz17991	Memory leak when removing a VNE from the gateway	Memory leak occurs on the Cisco ANA gateway server when a VNE is removed.	None	3.6.5

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsy40616	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
CSCsy51386	Few VNEs stay in maintenance after gateway returns to up	When the connection between the gateway and a unit is broken, all VNEs on the unit change to maintenance state. When the connection is restored, some VNEs might stay in maintenance state.	Manually start the VNEs that remain in maintenance state.	3.6.5
CSCsz61137	Clear all ticket does not put the VNE into the green state.	The VNE state remains unchanged (in the orange state) even after the ticket is cleared and removed.	None	3.6.5
CSCsz63776	Port name shown only for pseudowire sides in the down state	When the link is in the down state, the port name is shown only for a pseudowire.	None	3.6.5
CSCsz65604	Cisco ANA PathTracer displays the wrong path	Cisco ANA PathTracer does not display the correct path for packets. The final destination is not reached. However, the path is displayed correctly for the neighboring devices.	None	3.6.5
CSCsz81967	BQL adapter does not raise an error when the BQL command contains invalid data	If the IMO property name is incorrectly entered while creating a BQL command, the BQL disregards this property without giving an error.	None	3.6.5
CSCta02983	Error in Registry editor	Error in Registry editor.	None	3.6.5
CSCta08126	Subinterface not discovered	The subinterface is not populated in Cisco ANA. This issue occurs because the subinterfaces are populated based on the technologies that are supported in Cisco ANA.	See *Cisco Active Network Abstraction 3.6.7 VNE Reference Guide* for details on the supported technologies.	3.6.5
CSCta88582	Cisco ANA EventVision shows *Table statistics are too old*	Cisco ANA EventVision occasionally displays the message *Table statistics are too old* if table statistics are more than 30 days old.	None	3.6.5
CSCtb49074	Links are not discovered between Cisco PA-2T3+ and Cisco SPA-4XT3/E3 adapters	Cisco ANA NetworkVision does not discover links between Cisco PA-2T3+ and Cisco SPA-4XT3/E3 adapters.	None	3.6.5

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCtb55060	Adaptive Polling conditions cause Cisco XR/GSR CPU to reach 100%	When Cisco ANA 3.6.5 polls a Cisco 12000 Series router running Cisco IOS XR 3.6.1, the router CPU reaches 100%.	None	3.6.5
CSCsz82867	Repetitive commands are sent to the device	While discovering the network, VNEs send repetitive commands to the devices, delaying network discovery.	None	3.6.4
CSCsu80951	Juniper LDP Session Up/Down trap without correlation	The SNMP trap Juniper LDP Session Up/Down is generated when the value of jnxMplsLdpSesState leaves the operational(5) state. This situation occurs for: • Type: NOTIFICATION-TYPE • OID: 1.3.6.1.4.1.2636.4.4.0.4/ 1.3.6.1.4.1.2636.4.4.0.3 • Full path: iso(1).org(3).dod(6).internet(1) .private(4).enterprises(1).juniperMIB(2636).jnxTraps(4).jnxLdpTraps(4).jnxLdpTrapPrefix(0). jnxLdpSesDown(4) • Module: JUNIPER-LDP-MIB	None	3.6.4
CSCsv16468	Cisco ANA does not present the interface when SONET interface changes	Cisco ANA does not display the interface when a SONET interface changes. This situation occurs if you disable a SONET port on a Juniper device and then enable it. Cisco ANA EventVision displays the trap with the device name, but not the interface.	None	3.6.4
CSCsv32188	Cisco ANA PathTracer does not reach an IP interface configured on L3 Link Agg on Cisco CRS-1 devices	If you use Cisco ANA PathTracer 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 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsv39839	Some of the Juniper VNEs appear under Product scheme	Some 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
CSCsv72802	LDP protocol type received in Cisco ANA 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 Cisco ANA NetworkVision with this device. 2. Open MPLS interfaces under the LSE table and enter **LDP** in the Distribution Protocol field. 3. Change the distribution protocol type to TDP on the device and confirm the change in Cisco ANA NetworkVision. 4. Change the distribution protocol type to LDP on the device.	None	3.6.4
CSCsv96441	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
CSCsw40117	No expedite on local switching Card Out on Cisco CRS device	On Cisco CRS devices, the event Local Switching Entry Down is not correlated to a Card Out alarm.	None	3.6.4
CSCsz46079	Cisco Catalyst 6509 cannot connect to the cloud VNE	Cisco Catalyst 6509 devices cannot connect to the cloud VNE even though the configuration is similar to Cisco Catalyst 3560 devices.	None	3.6.4

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz58157	Cannot restrict maps on a user basis	Cannot assign maps to the user using Cisco ANA Manage.	You can assign maps to the user by updating a registry file. Changes to the registry should be performed only with the support of Cisco. For details, contact your Cisco account representative.	3.6.4
CSCsz97290	Cisco ANA raises MPLS black hole events for destination devices with VRFLite	Cisco ANA generates incorrect MPLS black hole events on the PE when the destination device is a VRFlite CE.	Disable MPLS black hole checking.	3.6.4
CSCta03169	Tickets are not cleared	Tickets are not cleared even after the issue on the device or network has been resolved. The Correlation tab shows that the root alarm is cleared, but some alarms that are correlated to it are not cleared and are propagated to the overall ticket severity.	None	3.6.4
CSCtb95351	On Juniper devices, wrong BGP peer modeling for peers with the same parameters	If External BGP (eBGP) is configured in VRFs using the same peer IP address, local IP address, and peer AS number (for example, when using templates to configure eBGP), the BGP Neighbors container displays only one peer for the last modeled VRF. This situation occurs on Juniper devices running JUNOS software.	None	3.6.4
CSCsq45883	Cisco 6500 Virtual Switching System (VSS) Shelf out and Card out alarms are generated when the **redundancy force-switchover** command is issued	When Cisco 6500 VSS systems are issued the **redundancy force-switchover** 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
CSCsq45903	Cisco 6500 VSS Interface operational state is down in active switch	When Cisco 6500 VSS systems are issued the **redundancy force-switchover** command, the Interface operational state goes down in the active switch.	None	3.6.3

Table 17 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsq45966	Cisco 6500 VSS Module status shown as OUT in active switch	When Cisco 6500 VSS systems are issued the **redundancy force-switchover** command, the Module status is shown as OUT in the active switch.	None	3.6.3
CSCsv61171	New VNEs added after disaster recovery failover are in the Unreachable state.	In the High Availability Cisco ANA setup, after disaster recovery, the newly added VNE goes into the Unreachable state.	Restart the AVMs to remodel the VNEs. For details, see *Cisco Active Network Abstraction 3.6.7 Administrator User Guide*.	3.6.3
CSCsq08876	ECI Hi-FOCuS devices are not modeled	ECI Hi-FOCuS devices are not modeled in Cisco ANA NetworkVision physical inventory.	None	3.6.2
CSCsq34031	Juniper routers Cross VRF information is wrong	Cisco ANA displays incorrect cross-VRF information for Juniper routers.	None	3.6.2
CSCsy33815	Improper modeling of Power and Fan modules of 6500VSS	If you add a VNE for a Cisco 6500 device, and then, in Cisco ANA NetworkVision, choose **Physical Inventor > Chassis > Shelf > Module**, the power and fan modules for Chassis 1 are not displayed. However, they are displayed for Chassis 2.	None	3.5.2

Resolved Caveats - Cisco ANA 3.6.7

The resolved caveats in Cisco ANA 3.6.7 are:

Table 18 Resolved Caveats in Cisco ANA 3.6.7

Identifier	Summary
CSCsm23483	Missing port in the inventory
CSCsv85962	Missing Card Down tickets for Cisco GSR routers running Cisco IOS XR 3.7.1
CSCsv96994	SPA-4XT3_E3 slot has wrong parameters on Cisco CRS-1 router
CSCsw47698	FRU traps do not correlate to card down on Cisco GSR devices running Cisco IOS XR 3.7.1
CSCsx64290	Cisco ME3400 devices: Wrong VlanInterface Mode when Ethernet port is down
CSCsx99851	Occam: Stability problem in the device due to repeated polling
CSCsy09485	Cisco GSR-XR devices: Cisco ANA does not display the pseudowire container configured at device
CSCsy15144	Cisco ANA Path Tracer does not work properly
CSCsz13522	Incorrect modeling of Mgmt 0/RP0/* interface

Table 18 Resolved Caveats in Cisco ANA 3.6.7 (continued)

Identifier	Summary
CSCsz20651	Cisco GSR-XR inserted module not reflected in GUI
CSCsz20967	*redirect.pl* cannot handle 735 syslogs per second
CSCsz31548	Command Builder Update should be confirmed to the user
CSCsz45763	The trap cefc module oper statusTraps is not properly associated
CSCsz50320	Cisco ANA is not polling information for fans and power supplies for Cisco XR 12000 devices
CSCsz58088	Wrong options displayed on the map link filter
CSCsz74619	Empty lines are displayed for non-Administrator users
CSCsz85182	Module shown with unsupported event for Cisco 12000 Series devices with Cisco IOS XR software
CSCta03377	Generic VNE inventory incorrectly displays 10G interface speed
CSCta03513	Missing MPLSTEProperties for subinterfaces in Cisco CRS devices
CSCta03524	Missing BGPNeighbors under BGP Table for Cisco devices running Cisco IOS XR software image
CSCta03534	LDP Neighbor Peers are not populated in Cisco CRS devices due to Network Processing Engine
CSCta10859	Cisco ANA 3.6.6 installation and uninstallation takes a longer time
CSCta22800	No exception is displayed when you readd an existing link in maintenance mode using BQL query

Related Documentation

User Guides

Cisco Active Network Abstraction 3.6.7 Documentation Guide

Cisco Active Network Abstraction 3.6.7 User Guide

Cisco Active Network Abstraction 3.6.7 Technology Support and Information Model Reference Manual

Cisco Active Network Abstraction 3.6.7 VNE Reference Guide

Administrator Guides

Cisco Active Network Abstraction 3.6.7 Installation Guide

Cisco Active Network Abstraction 3.6.7 Administrator User Guide

Developer Guides

Cisco Active Network Abstraction 3.6.7 Customization User Guide

Cisco Active Network Abstraction Integration Developer Guide

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