



Cisco Active Network Abstraction 3.6.6 Release Notes

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These release notes support the release of Cisco Active Network Abstraction (Cisco ANA) 3.6.6.



Note

See Cisco.com for the most up-to-date version of the [Cisco Active Network Abstraction 3.6.6 Release Notes](#).

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Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

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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 3.6.6

The following new features were added in Cisco ANA 3.6.6:

- Support to place a link in maintenance mode.

Using Cisco ANA NetworkVision or Cisco ANA Manage, you can move links to maintenance mode to suppress link alarms. This allows you to suppress these alarms while you perform configuration and provisioning in the network. If you still want to see the alarms, you can set Cisco ANA EventVision to display them.

In addition, you can view all links in maintenance mode and remove links from maintenance mode.

For details, see the [Cisco Active Network Abstraction 3.6.6 User Guide](#) and [Cisco Active Network Abstraction 3.6.6 Administrator Guide](#).

- Support for IPv6 Virtual Private Network (VPN) over Multiprotocol Label Switching (MPLS), also known as 6VPE.

Cisco ANA NetworkVision displays IPv6 addresses when they are configured on provider edge (PE) and customer edge (CE) routers in the Cisco ANA NetworkVision IP interface table. For details, see the [Cisco Active Network Abstraction 3.6.6 MPLS User Guide](#).

- Support for IP over dense wavelength-division multiplexing (IPoDWDM) technology for Cisco routers.
- Support to import an updated version of a command in Command Builder. For details, see the [Cisco Active Network Abstraction 3.6.6 Administrator Guide](#).
- Support to remove VNEs with their related business elements. For details, see the [Cisco Active Network Abstraction 3.6.6 Administrator Guide](#).
- Support for Cisco MWR 2900 Series Mobile Wireless Routers. The following modules are supported in this series:

ASM-M2900-TOP	HWIC-4T1/E1	HWIC-4SHDSL
HWIC-2SHDSL	HWIC-1ADSL	HWIC-1ADSLI
Motherboard for 2941		

- Support for the additional network element type in the Cisco ASR 1000 Series routers:
 - ciscoASR1004 (Cisco ASR 1004 Chassis, Dual P/S)
- Support for the following additional network element types in the Cisco ASR 9000 Series Aggregation Services Routers:
 - ciscoASR9006 (Cisco ASR 9006 chassis with DC power)
 - ciscoASR9006 (Cisco ASR 9006 chassis with AC power)
- Support for VRF-lite with Cisco ASR 1000 series routers as CE and Cisco ASR 9000 Series Aggregation Services Routers as PE.
- Support for the following additional network element types in the Cisco Catalyst 4500 Series switches:
 - catalyst4503E (Cisco Catalyst 4503E switch)
 - catalyst4507R-E (Cisco Catalyst 4507R-E switch)

- Support for the additional module in the Cisco 7200 Series routers:
 - PWR-7200-AC Cisco 7200 AC power supply
- Support for the additional module in the Cisco XR 12000 Series routers:
 - PRP-3
- Support for the additional module in the Cisco CRS-1 routers:
 - 1OC768-DPSK/C
- Support for the additional module in the Cisco 4924 ME switches:
 - PWR-C49-300DC
- Support for the following additional modules in the Cisco 7600 Series routers:

7600-ES+40G3C	7600-ES+4TG3C	7600-ES+4TG3CXL
7600-ES+2TG3C	7600-ES+2TG3CXL	7600-ES+20G3C
7600-ES+20G3CXL	7600-ES+3C	7600-ES+3CXL
7600-ES+20G	7600-ES+2TG	7600-ES+40G
7600-ES+4TG	SPA-1XCHOC12/DS0	SFP-GE-T
SFP-GE-S	SFP-GE-Z	SFP-OC12-LR2
SFP-OC12-MM	SFP-OC12-SR	SFP-OC12-IR1
SFP-OC12-LR1	XFP-10GER-192IR+	XFP-10GZR-OC192LR
GLC-BX-D	GLC-BX-U	

- Support for the following additional modules in the Cisco ASR 1000 Series routers:

ASR1000-ESP20	ASR1002-PWR-DC	ASR1000-RP2
ASR1000-ESP10	ASR1002-RP1	ASR1002-PWR-AC
ASR1002-SIP10	4XGE-BUILT-IN	ASR1006-PWR-DC
ASR1004-PWR-AC	ASR1004-PWR-DC	SFP-OC12-MM
SPA-4XT-SERIAL	SFP-OC3-LR2	SFP-OC12-LR1
SFP-OC12-SR	SFP-OC12-IR1	SFP-GE-S
SFP-OC12-LR2	SFP-OC48-SR	XFP-10GZR-OC192LR
SFP-GE-Z	SFP-GE-T	SPA-1XCHSTM1/OC3
XFP-10GER-OC192IR	SPA-10XGE-V2	SPA-1XOC48-POS/RPR
SPA-1XOC12-POS	SPA-1XOC3-ATM-V2	SPA-2XOC48POS/RPR
SPA-2XCT3/DS0	SPA-2XOC3-POS	SPA-4X1FE-TX-V2
SPA-2XT3/E3	SPA-3XOC3-ATM-V2	SPA-4XOC48POS/RPR
SPA-4XCT3/DS0	SPA-4XOC3-POS	SPA-8X1GE-V2
SPA-4XT3/E3	SPA-5X1GE-V2	SFP-OC3-SR
SPA-8XCHT1/E1	SFP-OC3-MM	SFP-OC48-IR1

SFP-OC3-IR1	SFP-OC3-LR1	SFP-OC48-LR2
SFP-GE-L		

- Support for the following additional modules in the Cisco ASR 9000 routers:

XFP-10GLR-OC192SR	A9K-4T-E	A9K-8T/4-B
A9K-8T/4-E	SFP-GE-L	SFP-GE-Z
XFP-10GZR-OC192LR	XFP-10GER-192IR+	A9K-RSP-4G
ASR-9006-FAN	A9K-1.5KW-DC	A9K-2KW-DC

**Note**

This release also includes support for software versions, traps, and syslogs for VNEs that are supported by previous Cisco ANA releases. For details, see the [Cisco Active Network Abstraction 3.6.6 VNE Reference Guide](#).

- Various bug resolutions. For details, see [Resolved Caveats - Cisco ANA 3.6.6, page 26](#).
- The following are the documentation enhancements:
 - [Cisco Active Network Abstraction 3.6.6 Administrator Guide](#) includes the prerequisites for adding VNEs to Cisco ANA Manage.
 - Cisco ANA integrity service is now documented in the [Cisco Active Network Abstraction 3.6.6 Administrator Guide](#) instead of the Cisco Active Network Abstraction 3.6.6 User Guide.

Important Notes

This section includes the following topics:

- [Installation Notes, page 6](#)
- [Solaris 10, page 7](#)
- [Solaris Services and Components, page 7](#)
- [Using Cisco CRS-1 VNEs, page 7](#)
- [Supported Schemes, page 8](#)
- [JDK DST Timezone Update Tool for Cisco ANA, page 8](#)
- [Configuring Database Storage \(Redo Logs\), page 9](#)
- [Online Help, page 9](#)

Installation Notes

This section includes the following topics:

- [Cisco ANA 3.6.0 Postinstallation Script, page 6](#)
- [Upgrade to Cisco ANA 3.6.6, page 6](#)
- [Memory Consumption, page 6](#)
- [Generating SSH Keys, page 7](#)
- [Backward Compatibility, page 7](#)

For installation procedures, see the [Cisco Active Network Abstraction 3.6.6 Installation Guide](#).

Cisco ANA 3.6.5 is installed on top of a Cisco ANA 3.6 installation and includes all patches that were released since the Cisco ANA 3.6 release. Any patches or fix packs that were previously installed on top of Cisco ANA 3.6 are automatically uninstalled by the 3.6.5 installation script.

**Note**

Although the name of this product is Cisco Active Network Abstraction 3.6.6, you might occasionally see references to the previously used terms *service pack* or *SP*. For example, this nomenclature is used in the file ANA_3_6_SP6.jar. When you see these terms, you can assume they refer to Cisco ANA 3.6.6.

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 3.6.6 Installation Guide](#).

Upgrade to Cisco ANA 3.6.6

Upgrading to Cisco ANA 3.6.6 from an earlier version of Cisco ANA could take a long time on the Cisco ANA servers that have a large number of alarms in the database. For example: On an enterprise-level server with 2 million alarms in the database, the upgrade may take approximately 90 minutes. This also affects downgrading from Cisco ANA 3.6.6 to earlier versions of Cisco ANA. See [CSCta10859](#) for more details.

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 3.6.6 Installation Guide](#).

Backward Compatibility

Note the following with regard to backward compatibility of Cisco ANA 3.6.6 with existing installations of Cisco ANA 3.6:

- Before installing Cisco ANA 3.6.6, review the Best Practices for Integration BQL Parsing chapter in the [Cisco Active Network Abstraction 3.6.6 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 3.6.6 is Solaris 10. Cisco ANA 3.6.6 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 3.6.6 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 3.6.6 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 licpub RO SystemOwner
snmp-server community ate9riv RW
```

Missing Module Software Version Values

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

Supported Schemes

Cisco ANA supports two schemes:

- Product—The default scheme used for all device types supported in this release, except for the Cisco CRS-1, Cisco XR 12000 series, Cisco 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 3.6.6 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 3.6.6 Installation Guide](#).

Online Help

The online help for Cisco ANA 3.6.6 has been tested using the following browsers:

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

**Note**

The online help was not updated for Cisco ANA 3.6.6. The most current product documentation for Cisco ANA 3.6.6 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, page 9](#)
- [Cisco ANA Fault Management, page 10](#)
- [Cisco ANA Workflow Editor, page 10](#)
- [OSPF, page 11](#)
- [HSRP, page 11](#)
- [ATM Topology Discovery, page 12](#)
- [Adaptive Polling, page 12](#)
- [BGP Neighbors, page 12](#)

Cisco ANA NetworkVision

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

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

One map in Cisco ANA NetworkVision supports:

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

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

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



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

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

Cisco ANA Workflow Editor

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

- [Workflow Editor Template Naming Conventions, page 11](#)
- [Workflow Editor and Floating User Licenses, page 11](#)

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.

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

The open caveats in Cisco ANA 3.x are:

Table 1 Open Caveats in Cisco ANA 3.x

Identifier	Title	Impact	Workaround	Release
CSCsy21449	Layer 3 ports causes 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: <ol style="list-style-type: none"> 1. Run <pre>./runRegTool.sh -gs 127.0.0.1 set 0.0.0.0 "site/agentdefaults/da /amsi/topology/common/ waitForSpecificSignature" true</pre> 2. Run <pre>./runRegTool.sh -gs 127.0.0.1 set 0.0.0.0 "site/agentdefaults/da /amsi/topology/etherne t/enabled" false</pre> 3. Restart the gateway. 	3.6.6

Table 1 **Open Caveats in Cisco ANA 3.x (continued)**

Identifier	Title	Impact	Workaround	Release
CSCsy94810	Cisco MWR 2941: Pluggable type not shown for inserted SFP	If you add a VNE with SFP in a Gig0/0 SFP container, and then, in Cisco ANA NetworkVision, select Physical Inventory > Chassis > Slot, the <i>Pluggable</i> type of SFP is not displayed in the Ports table and Location Information of Port container.	None	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, select Physical Inventory > Chassis > Slot, the serial number for the motherboard is not displayed.	None	3.6.6
CSCsz04738	The 6500 IOS ATM interface type is misleading	Cisco ANA displays the ATM interface as “Unknown” for devices, such as the Cisco 6500 or Cisco 7600 that contain the ATM interface.	None	3.6.6
CSCsz11805	Physical port is not modeled for Cat4503-E	The physical port FastEthernet1 is not modeled for Cisco Catalyst 4503-E.	None	3.6.6
CSCsz13522	Incorrect modeling of Mgmt 0/RP0/* interface	For Cisco CRS-1 with Cisco IOS XR 3.7.0, GigabitEthernet port is displayed under RP card instead of Mgmt ports.	None	3.6.6
CSCsz16179	Cisco ANA is not setting transceiver-related property for affected cards	Cisco ANA does not set the transceivers-related property for the cards affected by the new CNEM recommendation post SRD1.	None	3.6.6
CSCsz16445	No ports under SPA-4XOC48POS/RPR are displayed	If a single Cisco CRS chassis is configured as a parent router and LR router, the ports under the modules associated to the LR router are not shown in Cisco ANA NetworkVision.	None	3.6.6
CSCsz16471	No ports under CRS-FCC-SC-22GE are displayed.	For Cisco CRS with Cisco IOS XR 3.8.0, no ports under CRS-FCC-SC-22GE are displayed in Cisco ANA NetworkVision.	None	3.6.6

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz20651	GSR-XR inserted module not reflected in GUI	<p>Cisco XR 12000 shared port adapter (SPA-2XCT3) is not visible in the Cisco ANA user interface.</p> <p>This issue occurs when you:</p> <ol style="list-style-type: none"> 1. Add Cisco XR 12000 without the SPA in Cisco ANA Manager. 2. Insert the SPA in Cisco XR 12000 device. 3. Launch Cisco ANA NetworkVision. The newly added SPA is not visible at Physical Inventor > Chassis > Slot. 	None	3.6.6
CSCsz31548	Command Builder Update should be confirmed to the user	<p>No confirmation message is displayed when the existing command script is updated. This issue occurs when you:</p> <ol style="list-style-type: none"> 1. Click a network element in the Cisco ANA NetworkVision tree view. 2. Select Device > Management > Command Builder to open the Command Builder user interface. 3. Add a new script to Cisco ANA Command Builder. 4. Export the newly added script to Windows file system. 5. Modify the script content and save the changes. 6. Import the updated command script to Cisco ANA Command Builder using the Import Element menu. 	None	3.6.6
CSCsz33626	Dynamic VLAN type is shown as static VLAN	For Cisco Catalyst 4503, the dynamic VLAN setup is displayed as static VLAN in the Cisco ANA NetworkVision user interface.	None	3.6.6
CSCsz34083	Port is not displayed in link aggregation if it is configured with <i>on</i> mode	In Cisco ASR 900 devices, ethernet link aggregation port is not displayed if it is configured with <i>bundle id 73 mode on</i> .	None	3.6.6

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz38409	RP Mgmt port modeled as GigabitEthernet for CRS_3.4.3	For Cisco IOS XR 3.7.0, RP Mgmt port is modeled as GigabitEthernet port. This issue occurs when the entAliasMappingIdentifier entry gets corrupted. This entry get corrupted when mgmtethernet interfaces or controlethernet interfaces are present on the device.	None	3.6.6
CSCsz38844	BFD link state does not change	The BFD link remains in major state (in orange color) even after the BFD session is in up state. This issue occurs because the ticket is not closed even after the device is polled	None	3.6.6
CSCsz45216	Incomplete Part ID and Pluggable Type for Cisco GE SX modules on a Cisco CRS device.	Cisco ANA displays incomplete Part ID and Pluggable Type for Cisco GE SX modules on a Cisco CRS device.	None	3.6.6
CSCsz45763	The trap cefc module oper statusTraps is not properly associated	The traps cefc module oper status are not properly associated in Cisco ANA NetworkVision (Physical Inventory > Chassis > Slot). This issue occurs when you add a VNE and then pull out the module and push it back in.	None	3.6.6
CSCsz49778	Ticket, Card Down is not cleared	The ticket, Card Down is not cleared when the card is inserted in the device. This issue occurs when you: <ol style="list-style-type: none"> 1. Add a VNE in Cisco ANA Manage. 2. Invoke Cisco ANA NetworkVision and select a device. 3. View Physical Inventory > Chassis > Slot. 4. Pull out the module, Card down is generated in the Tickets Pane. 5. Insert the module, even after several minutes the alarm, Card Down is not clearing. 	None	3.6.6
CSCsz54935	Cisco 12406 GSR: Wrong card description is displayed	Cisco ANA displays the incorrect card description for the Cisco 12406 GSR. The issue is due to the EEPROM configuration on the module.	None	3.6.6

Table 1 *Open Caveats in Cisco ANA 3.x (continued)*

Identifier	Title	Impact	Workaround	Release
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
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 the VNEs using the <code>vne_creation_script.pl</code> script, the VNEs remain in the Initializing state.	Either restart the units or load a few VNEs at a time.	3.6.6
CSCsz69912	IPV6 VRF interface is displayed in the interface table	For Cisco ASR 1000 devices, the IPV6 VRF interface is displayed in the interface table instead of VRF.	None	3.6.6
CSCsz74619	Empty lines are displayed for non-Administrator users	For user with the Viewer role, a few extra entries are seen between the physical interface and VRFs in the Links view. This issue occurs when you: <ol style="list-style-type: none"> 1. Create some VNEs with a few VRFs. 2. Add all VNEs to a new map. 3. Create a user with the Viewer role. This user has the permission to view only some of the VNEs. 4. Log in with the Viewer role. 5. Open the created map and open the Links view. 	None	3.6.6

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz63747	Java crash in AVM11	<p>This issue is seen when Cisco ANA is managing 15K VNEs. After running Cisco ANA for a few hours, AVM11 crashes with the following error:</p> <pre># An unexpected error has been detected by HotSpot Virtual Machine: # # Internal Error (434F4E43555252454E542D41524B335745455027454E45524154494F4E0E4350501177 01), pid=25992, tid=6 # # Java VM: Java HotSpot(TM) Server VM (1.4.2_13-b06 mixed mode) # An error report file with more information is saved as hs_err_pid25992.log # # If you would like to submit a bug report, please visit: # http://java.sun.com/webapps/bugreport/crash.jsp</pre>	<p>Restart Cisco ANA gateway by entering the command:</p> <pre>./mvm.csh</pre> <p>For details, see Cisco Active Network Abstraction 3.6.6 Administrator User Guide.</p>	3.6.6
CSCsz76766	Attributes such as, clocking, framing, loopback, scrambling are not populated	Cisco ANA does not display loopback, scrambling, clocking, and framing details for Cisco 7200 with SRD1 image.	None	3.6.6
CSCsz91888	An alarm is not generated when a VNE is switched back to the regular polling rate.	When a VNE is switched back to the regular polling rate, the service alarm is not generated if the CPU level goes below the lower threshold of 70%.	None	3.6.6
CSCta03513	Missing MPLSTETProperties for sub-interfaces in Cisco CRS devices.	MPLSTETProperties for sub-interfaces are not populated in Cisco ANA. Null pointer exception is displayed while fetching the admin weight attribute.	None	3.6.6

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCta03524	Missing BGPNeighbors under BGP Table for Cisco devices running Cisco IOS XR software image.	If you are having IPv4 and IPv6 addresses in your network, the Cisco ANA does not fetch the BGP neighbor information for IPv6 address. Also, while fetching the information for IPv4 address, if IPv6 device is found, Cisco ANA stops populating the information for the remaining BGP neighbors even though if the devices contains IPv4 address.	None	3.6.6
CSCta03534	LDP Neighbor Peers are not populated in Cisco CRS devices due to Network Processing Engine.	Null Pointer exception occurs in LDPneighbor parser. The LDP Neighbor information is not modeled for Cisco CRS devices in Cisco ANA.	None	3.6.6
CSCta10859	Cisco ANA 3.6.6 installation and uninstallation takes a longer time	<p>While using the script, <i>update.pl</i>. Cisco ANA 3.6.6 installation and uninstallation takes a longer time with the following message:</p> <pre> Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.3.0 - 64bit Production With the Partitioning, OLAP and Data Mining options SQL> </pre> <p>This issue occurs because the <i>update.pl</i> script updates the database and it may take a longer time if the size for the following database tables are large:</p> <ul style="list-style-type: none"> • SERVICEALARM • ALARMTICKET • SYSLOGALARM • V1TRAPALARM • V2TRAPALARM • MAINTENANCELINK <p>You do not have to perform any action. The installation process continues after the database tables are updated.</p>	None	3.6.6

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCta11179	Correlation issue between Interface Status and Link Down tickets	There is no correlation when the events, Interface Status Down and Link Down Events Due to Admin Down occur. This issue occurs because syslog is not sent to Cisco ANA AVM100.	Ensure that both the devices are configured to send the syslog messages to Cisco ANA AVM100. If one of the devices is not sending Syslogs the correlation is effected.	3.6.6
CSCta22800	No exception is displayed when you readd an existing link in maintenance mode using BQL query.	No exception is displayed when you perform the following steps: 1. Run a BQL query (SetLinkMaintenanceMode with addFlag=1) to move one of the links to maintenance mode. 2. Run the same BQL query again on the same link (which is already in maintenance mode).	None	3.6.6
CSCta23290	Redundancy for RP is shown none in Cisco 12000 series devices.	For Cisco 12000 series devices running software version Cisco IOS XR 3.7.1, the Redundancy State and Configured fields for active RP is displayed as none instead of Active in Physical Inventory.	None	3.6.6
CSCsw47698	FRU traps do not correlate to card down on Cisco GSR devices running Cisco IOS XR 3.7.1	When a card is removed from Cisco GSR devices running Cisco IOS XR 3.7.1 software, the following Field Replaceable Unit (FRU) traps are not correlated under the Card Out ticket: • cefc FRU removed/inserted • cefc module oper status down/up	None	3.6.5
CSCsx64290	Cisco ME3400 devices: Wrong VlanInterface Mode when Ethernet port is down	For Cisco ME3400 devices, if a Gigabit Ethernet port that is configured with dot1q tunneling goes down, Cisco ANA NetworkVision displays Access instead of Dot1q-Tunnel for the VlanInterface mode.	Enter the following command: show dot1q-tunnel	3.6.5
CSCsx99930	Cisco ANA EventVision froze after two weeks	The Cisco ANA EventVision GUI froze after it was open continuously for two weeks.	Close and restart Cisco ANA EventVision.	3.6.5

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsy09485	Cisco GSR-XR devices: Cisco ANA does not display the pseudowire container configured at device	For Cisco GSR XR devices running Cisco IOS XR 3.6.2 software, a configured pseudowire is not displayed in Cisco ANA NetworkVision as a container.	To check the pseudowire configuration on the device, enter the following command: show l2vpn x-connect type ac-pw detail	3.6.5
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
CSCsz08038	Issue with memory distribution on a unit server	If you are running Cisco ANA for several days, the memory consumption on the Cisco ANA unit server grows to 16 GB. Because of this, the link may disappear in the maps.	Option 1: Move some AVMs from the Cisco ANA unit server to the Cisco ANA gateway server. Option 2: <ol style="list-style-type: none">1. Go to https://Gateway_IPaddress:1311/graphs.2. Click <code>_AVM_IP_</code>3. Check the lower threshold value of each AVM memory.4. Use this threshold value for AVM memory.	3.6.5
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 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz20967	<i>redirect.pl</i> cannot handle 735 syslogs per second	Some of the syslogs that are sent are not received in AVM100. This issue is seen on the Sun SPARC Enterprise T5220 server.	<ol style="list-style-type: none"> 1. Log in as root user. 2. Run <code>ps -ef grep redirectUdp</code> and get the PIDs of the two <code>redirectUdp.pl</code> processes. 3. Run <code>kill -9 PID#1</code> Where PID#1 is the PID of the first <code>redirectUdp.pl</code> process. 4. Run <code>kill -9 PID#2</code> Where PID#2 is the PID of the second <code>redirectUdp.pl</code> process. 5. Run <code>\$\$SHEERHOME/Main/scripts/redirectUdp162.sh.</code> 6. Run <code>\$\$SHEERHOME/Main/scripts/redirectUdp514.sh</code> <p>Note <code>\$\$SHEERHOME</code> is not defined under user root. It is the Cisco ANA installation directory.</p>	3.6.5
CSCsz58088	Wrong options displayed on the map link filter.	The IP and Unknown links are displayed in the Cisco ANA NetworkVision view. The IP and Unknown links are not supported in Cisco ANA.	You can filter the links based on a predefined set of link types or by manually configuring a customized set of link types. See Cisco Active Network Abstraction 3.6.6 User Guide for more details.	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	PathTracer displays the wrong path	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

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
CSCsz74658	External Launcher menu does not pop up if using <i>String</i> match expression	The External Launcher menu is not displayed if only a parameter and <i>String</i> matching expression is used in the BQL <i>set</i> command.	You must use the parameter “com.sheer.imo.IManagedElement:IP” (management IP address of the network element) in BQL command for adding External Launcher menu.	3.6.5
CSCsz81967	BQL adapter does not raise an error when the BQL command contain invalid data	If the IMO property name is wrongly entered while creating a BQL command, the BQL disregards this property without giving an error.	None	3.6.5
CSCsz85182	Module shown with unsupported event for Cisco 12000 series devices with Cisco IOS XR.	SPA-IPSEC-2G-2 module is displayed with unsupported event.	None.	3.6.6
CSCta02983	Error in Registry editor	Error in Registry editor.	None	3.6.5
CSCta03377	Generic VNE inventory incorrectly displays 10G interface speed	Cisco ANA incorrectly displays the 10 G interface speed as 4294 Gbps for Generic VNE.	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 3.6.6 VNE Reference Guide for details on the supported technologies.	3.6.5
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: <ul style="list-style-type: none"> 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 present the interface when the SONET interface changes.	None	3.6.4

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
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
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
CSCsv67267	No description and no access-list entry appear in IP interface for Cisco GSR and Cisco CRS devices	In Cisco ANA NetworkVision, if you provide a description, configure an access list for a Cisco GSR or Cisco CRS-1 device, and then select Logical Inventory > Routing Entry > IP Interface , the interface description and the access-lists entries are not displayed.	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

Table 1 *Open Caveats in Cisco ANA 3.x (continued)*

Identifier	Title	Impact	Workaround	Release
CSCsv85962	Missing Card Down tickets for Cisco GSR routers running Cisco IOS XR 3.7.1	On a Cisco GSR router running Cisco IOS XR 3.7.1 software, if a card goes down, Link Down tickets are issued instead of a Card Down ticket and three Link Down tickets that are correlated to the card.	None	3.6.4
CSCsv90981	VLANs above Link Aggregation (LAG) links in switches are incorrectly modeled	Elements of type IEEE802 are connected as sons of VlanInterface, thus creating a class cast exception in IEEE0idToPcTranslator.	None	3.6.4
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
CSCsv96994	SPA-4XT3_E3 slot has wrong parameters on Cisco CRS-1 router	Cisco ANA displays the wrong parameters for SPA-4XT3_E3 slots in physical inventory. Cisco ANA displays “missing pluggable port” even though the slot is a coaxial port and it is connected.	None	3.6.4
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
CSCsy15144	Cisco ANA Path Tracer does not work properly	If you attempt to use Cisco ANA Path Tracer with a VRF configured for MPLS, Cisco ANA Path Tracer does not display the end-to-end results.	Verify that the VRF configuration is correct.	3.6.4
CSCsy33220	Tunnel reroute traps are not correlated to any ticket	The tunnel reroute trap generates Informational tickets and these tickets are not correlated.	None	3.6.4
CSCsz46079	Cisco Catalyst 6509 cannot connect to the cloud VNE	Cisco Catalyst 6509 cannot connect to the cloud VNE even though the configuration is similar to Cisco Catalyst 3560.	None	3.6.4
CSCsz50320	Cisco ANA is not polling information for fans and power supplies for Cisco XR 12000 devices.	Cisco ANA is not polling information for fans and power supplies for the devices that are running Cisco IOS XR software.	None	3.6.4

Table 1 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 please contact the Cisco ANA Project Manager or Cisco Account Team.	3.6.4
CSCsz82867	Repetitive commands are sent to the device	While discovering the network, VNE sends repetitive commands to the devices. This is causing delay in the discovery of the network.	None	3.6.4
CSCsz97290	Cisco ANA is raising 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 of alarms that are correlated to it are not cleared and this is propagated to the overall ticket severity.	None	3.6.4
CSCta17009	Cisco ANA alert processing is slow	When handling 12 events per second, Cisco ANA alert processing becomes extremely slow, resulting in delays from 1 to 2 hours.	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
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

Table 1 Open Caveats in Cisco ANA 3.x (continued)

Identifier	Title	Impact	Workaround	Release
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 3.6.6 Administrator User Guide .	3.6.3
CSCsx99851	Occam: Stability problem in the device due to repeated polling	Occam devices exhibit issues related to stability and memory usage due to repeated polling of the device with the same set of commands.	Configure site.xml with a longer polling interval.	3.6.3
CSCsq08876	ECI Hi-FOCuS devices are not modeled	ECI Hi-FOCuS devices are not modeled.	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, select 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 3.6.6

The resolved caveats in Cisco ANA 3.6.6 are:

Table 2 Resolved Caveats in Cisco ANA 3.6.6

Identifier	Summary
CSCsx34199	Cisco 3750ME: Cisco GBICs SFP-GE-L and GLC-LH-SM are not displayed in Cisco ANA NetworkVision
CSCsx46568	Cisco ASR 9000: Hardware Type shown as Unknown
CSCsx93552	Cisco ME3400 devices: Incorrect type shown for static route entry under routing table
CSCsx93712	Some BGP links are missing in the Cisco ANA GUI
CSCsy03465	Cisco ASR 9010 routers: A few interfaces are missing from physical inventory
CSCsy10684	Cisco GSR-XR devices: When a Gigabit Ethernet port is down, OSPF is shown as if it were up
CSCsy31399	Wrong hardware type value for POS modules in Cisco 12000 series device
CSCsy31468	Power supply and fan are not modeled for Cisco 12000 series devices
CSCsy31691	Chassis description and serial number are not populated for Cisco 3750ME Ichassis
CSCsy31695	Power supply and fan are not modeled for Cisco ME3400 devices

Table 2 **Resolved Caveats in Cisco ANA 3.6.6 (continued)**

Identifier	Summary
CSCsy31898	Flash Device Size is 0 in ImanagedElement of Cisco 12000 series device
CSCsy31936	DRAM Used and DRAM Free memory are not populated for Cisco 12000 series devices
CSCsy34272	Flash device size attribute is missing in ImanagedElement of Cisco 4948 device
CSCsy39552	Riverstone: A few entries are missing in the IP Interface table
CSCsy39745	Riverstone: VLAN ID should be displayed for bridges
CSCsy40614	Port containers are not modeled for Cisco Catalyst 4948 devices
CSCsy43210	Power and fan modules are not modeled for Cisco Catalyst 4948 devices
CSCsy44601	Hardware type of fixed module is inaccurate for Cisco Catalyst 4948 devices
CSCsy46913	BGP peer state is populated incorrectly for Cisco 12000 series devices
CSCsv32272	Standard access list entries are not shown for Cisco 3750ME devices
CSCsv39730	On Cisco 3750ME devices, one of the TRUNK ports is modeled as ACCESS
CSCsv39821	Missing DataLinkAggregation info
CSCsv44393	Information missing for system description and element type
CSCsv88924	Missing FrameRelay traffic profiles in logical inventory (Cisco R1841 routers)
CSCsw18280	VNE “Maintenance” status missing
CSCsq81705	Cisco 6509 device: Wrong information is shown for Generic Routing Encapsulation (GRE) tunnel
CSCsv89324	For Cisco MC CRS-1 devices, management interfaces from the second chassis are not displayed in Cisco ANA
CSCsw70673	Long Port description is truncated in ANA GUI

Related Documentation

User Guides

[Cisco Active Network Abstraction 3.6.6 Documentation Guide](#)

[Cisco Active Network Abstraction 3.6.6 User Guide](#)

[Cisco Active Network Abstraction 3.6.6 MPLS User Guide](#)

[Cisco Active Network Abstraction 3.6.6 Technology Support and Information Model Reference Manual](#)

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