



CHAPTER 7

Support Information for Cisco Switches

This chapter contains support information for Virtual Network Elements (VNEs) that manage Cisco switches in Cisco ANA Version 3.6.6. For more information about the objects and attributes described in this chapter, see the [Cisco Active Network Abstraction 3.6.6 Technology Support and Information Model Reference Manual](#).

This chapter contains the following topics:

- [Cisco Catalyst 2900 Series Switches, page 7-2](#)
- [Cisco ME 3400 Series Ethernet Access Switches, page 7-4](#)
- [Cisco Catalyst 3500 XL Series Switches, page 7-7](#)
- [Cisco Catalyst 3550 Series Switches, page 7-9](#)
- [Cisco Catalyst 3560 Series Switches, page 7-11](#)
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- [Cisco Catalyst 4000 Series Switches, page 7-18](#)
- [Cisco Catalyst 4500 Series Switches, page 7-21](#)
- [Cisco Catalyst 4900 Series Switches, page 7-25](#)
- [Cisco ME 4900 Series Ethernet Switch, page 7-28](#)
- [Cisco Catalyst 6500 Series \(CatOS\) Switches, page 7-31](#)
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- [Cisco ME 6500 Series Ethernet Switches \(6524\), page 7-45](#)
- [Supported Technologies on Cisco Switches, page 7-48](#)

Cisco Catalyst 2900 Series Switches

This section includes the following information about Cisco Catalyst 2900 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 2900 Series Switches](#)):

- [Cisco Catalyst 2900 Series—Supported Software Versions, page 7-2](#)
- [Cisco Catalyst 2900 Series—Supported Topologies, page 7-2](#)
- [Cisco Catalyst 2900 Series—Supported Modules, page 7-3](#)
- [Cisco Catalyst 2900 Series—Supported Technologies, page 7-3](#)
- [Cisco Catalyst 2900 Series—Supported Service Events, page 7-3](#)

Cisco Catalyst 2900 Series—Supported Software Versions

Table 7-1 *Supported Software Versions for Cisco Catalyst 2900 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
12.2(25)FX	3.6.0	S
CatOS 9.00.04	3.6.0	S
12.1(22)EA8	3.6.2	S
12.1(22)EA8a	3.6.2	S
12.0(5)WC17	3.6.2	S

**Note**

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 2900 Series—Supported Topologies

Table 7-2 *Supported Topologies for Cisco Catalyst 2900 Series—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 2900 Series—Supported Modules

Table 7-3 Supported Modules for Cisco Catalyst 2900 Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
WS-C2912-XL	3.6.0	12 fixed autosensing 10/100 ports	S
WS-C2924M-XL	3.6.0	24 fixed autosensing 10/100 ports 2 expansion slots	S
WS-C2948G	3.6.0	48 10/100 ports and 2 fixed, gigabit interface converter (GBIC)-based 1000BASE-X uplink ports 1.5 RU switch Catalyst OS installed	S
WS-X2948	3.6.0	Switching Supervisor	S

Cisco Catalyst 2900 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 2900 Series in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)

Cisco Catalyst 2900 Series—Supported Service Events

Table 7-4 Supported Service Events for Cisco Catalyst 2900 Series—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Card Up/Down	3.6.0	Y

Cisco ME 3400 Series Ethernet Access Switches

This section includes the following information about Cisco ME 3400 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco ME 3400 Series Ethernet Access Switches](#)):

- [Cisco ME 3400 Series—Supported Software Versions, page 7-4](#)
- [Cisco ME 3400 Series—Supported Topologies, page 7-5](#)
- [Cisco ME 3400 Series—Supported Modules, page 7-5](#)
- [Cisco ME 3400 Series—Supported Technologies, page 7-6](#)
- [Cisco ME 3400 Series—Supported Service Events, page 7-6](#)

Cisco ME 3400 Series—Supported Software Versions

Table 7-5 *Supported Software Versions for Cisco ME 3400 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
12.3(23)S1	3.6.1	S
12.3(22)S	3.6.1	S
12.3(23)	3.6.1	S
12.3(23)S2	3.6.1	S
12.3(23)S3	3.6.1	S
12.2(25) SEG	3.6.1	S
12.2(35) SE1	3.6.1	S
12.2(35) SE	3.6.1	S
12.2(35)SE3	3.6.1	S
12.2(37)SE	3.6.3	S
12.2(44)SE	3.6.3	S
12.2(46)SE	3.6.4	V
12.2(35)SE4	3.6.4	S
12.2(37)SE1	3.6.4	S
12.2(44)SE1	3.6.4	S
12.2(0.0.48)EY	3.6.5	S
12.2(44)EY	3.6.5	S
12.2(44)EY4	3.6.5	S ¹
12.2(50)SE	3.6.6	V

¹Tested as modified version of 12.2(44)EY

**Note**

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco ME 3400 Series—Supported Topologies

Table 7-6 Supported Topologies for Cisco ME 3400 Series—Cisco ANA Version 3.6.6

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.1
Physical Layer	Physical Layer	3.6.1

Cisco ME 3400 Series—Supported Modules

Table 7-7 Supported Modules for Cisco ME 3400 Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
ME-3400G-12CS-A	3.6.1	12 dual-purpose ports (10/100/1000 and Small Form-Factor Pluggable [SFP]) and 4 SFP uplinks	S
ME-3400G-12CS-DC	3.6.1	12 dual-purpose ports (10/100/1000 and SFP) and 4 SFP uplinks	S
ME-3400G-2CS	3.6.1	2 dual-purpose ports (10/100/1000 and SFP) and 2 SFP uplinks	S
ME-3400EG-2CS-A	3.6.5	ME-3400EG-2CS-A - Fixed Module 0	S ¹
ME-3400EG-12CS-M	3.6.5	ME-3400EG-12CS-M - Fixed Module 0	S
ME-3400E-24TS-M	3.6.5	ME-3400E-24TS-M - Fixed Module 0	S
SFP-GE-L	3.6.4	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength, extended operating temperature range and DOM support	S
GLC-LH-SM	3.6.4	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength	S

¹It used the ME-3400G-2CS-A device

Cisco ME 3400 Series—Supported Technologies

The following technologies are supported by the Cisco ME 3400 Series in Cisco ANA Version 3.6.6:

- [IP](#), page 7-49
- [Routing Protocols](#), page 7-51
- [Ethernet \(IEEE 802.3\)](#), page 7-52
- [ACL](#), page 7-65
- [Physical Equipment](#), page 7-66
- [Base Logical Components](#), page 7-67
- [Common](#), page 7-68
- [Additional Technologies](#), page 7-70

Cisco ME 3400 Series—Supported Service Events

Table 7-8 *Supported Service Events for Cisco ME 3400 Series—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Card In/Out	3.6.1	Y
Link Down/Up	3.6.1	Y
Device Unreachable	3.6.1	N
CPU Over Utilized	3.6.1	N
Memory Over Utilized	3.6.1	N
Device Unsupported	3.6.1	N
Discard Packets	3.6.1	N
Dropped Packets	3.6.1	N
Module Unsupported	3.6.1	N
Port Flapping	3.6.1	N
Port Down	3.6.1	Y
Rx Over Utilized	3.6.1	N
Tx Over Utilized	3.6.1	N
Card Up/Down	3.6.1	Y
Adaptive Polling	3.6.1	N

Cisco Catalyst 3500 XL Series Switches

This section includes the following information about Cisco Catalyst 3500 XL Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 3500 XL Series Switches](#)):

- [Cisco Catalyst 3500 XL Series—Supported Software Versions, page 7-7](#)
- [Cisco Catalyst 3500 XL Series—Supported Topologies, page 7-7](#)
- [Cisco Catalyst 3500 XL Series—Supported Modules, page 7-7](#)
- [Cisco Catalyst 3500 XL Series—Supported Technologies, page 7-8](#)
- [Cisco Catalyst 3500 XL Series—Supported Service Events, page 7-8](#)

Cisco Catalyst 3500 XL Series—Supported Software Versions

Table 7-9 *Supported Software Versions for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
Cat IOS 12.0(5)WC9a	3.6.0	S



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 3500 XL Series—Supported Topologies

Table 7-10 *Supported Topologies for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 3500 XL Series—Supported Modules

Table 7-11 *Supported Modules for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.6.6*

Module Name	ANA Version	Module Description	Certification Level
C3K-BLWR-60CFM	3.6.4	Fan Module for the Catalyst 3750-E and 3560-E Series	S

Cisco Catalyst 3500 XL Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3500 XL Series in Cisco ANA Version 3.6.6:

- [IP](#), page 7-49
- [Ethernet \(IEEE 802.3\)](#), page 7-52
- [Physical Equipment](#), page 7-66
- [Base Logical Components](#), page 7-67
- [Common](#), page 7-68

Cisco Catalyst 3500 XL Series—Supported Service Events

Table 7-12 *Supported Service Events for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Discard Packets	3.6.0	N
Dropped Packets	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Rx Over Utilized	3.6.0	N
Tx Over Utilized	3.6.0	N
VPN Leak	3.6.0	N
Card Up/Down	3.6.0	Y

Cisco Catalyst 3550 Series Switches

This section includes the following information about Cisco Catalyst 3550 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 3550 Series Switches](#)):

- [Cisco Catalyst 3550 Series—Supported Software Versions, page 7-9](#)
- [Cisco Catalyst 3550 Series—Supported Topologies, page 7-9](#)
- [Cisco Catalyst 3550 Series—Supported Technologies, page 7-10](#)
- [Cisco Catalyst 3550 Series—Supported Service Events, page 7-10](#)

Cisco Catalyst 3550 Series—Supported Software Versions

Table 7-13 *Supported Software Versions for Cisco Catalyst 3550 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
12.1(11)EA*	3.6.1	S
12.1(12c)EA1	3.6.1	S
12.1(13)EA*	3.6.1	S
12.1(14)AX3	3.6.1	S
12.1(14)EA1	3.6.1	S
12.1(19)EA*	3.6.1	S
12.1(20)EA*	3.6.1	S
12.1(22)EA*	3.6.1	S
12.1(22)EA6	3.6.1	S
12.1(22)EA8a	3.6.1	V



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 3550 Series—Supported Topologies

Table 7-14 *Supported Topologies for Cisco Catalyst 3550 Series—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 3550 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3550 Series in Cisco ANA Version 3.6.6:

- [IP](#), page 7-49
- [Ethernet \(IEEE 802.3\)](#), page 7-52
- [Physical Equipment](#), page 7-66
- [Base Logical Components](#), page 7-67
- [Common](#), page 7-68
- [Additional Technologies](#), page 7-70

Cisco Catalyst 3550 Series—Supported Service Events

Table 7-15 *Supported Service Events for Cisco Catalyst 3550 Series—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
All IP Interfaces Down / Active IP Interfaces Found	3.6.0	Y
Interface Status Down/Up	3.6.0	Y
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Cloud Problem	3.6.0	N
Card Up/Down	3.6.0	Y

Cisco Catalyst 3560 Series Switches

This section includes the following information about Cisco Catalyst 3560 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 3560 Series Switches](#)):

- [Cisco Catalyst 3560 Series—Supported Software Versions, page 7-11](#)
- [Cisco Catalyst 3560 Series—Supported Topologies, page 7-12](#)
- [Cisco Catalyst 3560 Series—Supported Modules, page 7-12](#)
- [Cisco Catalyst 3560 Series—Supported Technologies, page 7-12](#)
- [Cisco Catalyst 3560 Series—Supported Service Events, page 7-13](#)

Cisco Catalyst 3560 Series—Supported Software Versions

Table 7-16 *Supported Software Versions for Cisco Catalyst 3560 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
12.1(13)EA1a	3.6.0	S
12.1(14)EA1a	3.6.0	S
12.1(25)EW	3.6.0	S
12.1(6)EA1a	3.6.0	S
12.2(25)SED	3.6.0	S
12.1(22)EA5	3.6.1	S
12.1(22)EA8a	3.6.1	S
12.2(25)SEE2	3.6.1	S
12.1(22)EA1	3.6.2	S
12.2(25)SEC2	3.6.2	S
12.2(25)SEC	3.6.2	S



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 3560 Series—Supported Topologies

Table 7-17 Supported Topologies for Cisco Catalyst 3560 Series—Cisco ANA Version 3.6.6

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 3560 Series—Supported Modules

Table 7-18 Supported Modules for Cisco Catalyst 3560 Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
WS-C3560-24PS	3.6.1	24 Ethernet 10/100 ports and 2 SFP-based Gigabit Ethernet ports	S
WS-C3560-48PS	3.6.0	48 Ethernet 10/100 ports and 4 SFP-based Gigabit Ethernet ports	S
WS-C3560G-24PS	3.6.1	24 Ethernet 10/100/1000 ports and 4 SFP-based Gigabit Ethernet ports	S
WS-C3560G-24TS	3.6.1	24 Ethernet 10/100/1000 ports and 4 SFP-based Gigabit Ethernet ports	S
WS-C3560G-48TS	3.6.0	48 Ethernet 10/100/1000 ports and 4 SFP-based Gigabit Ethernet ports	S
WS-C3560G-48PS	3.6.1	48 Ethernet 10/100/1000 ports and 4 SFP-based Gigabit Ethernet ports	S
WS-C3560-48TS	3.6.2	48 Ethernet 10/100 ports and 4 SFP-based Gigabit Ethernet ports	S
C3K-BLWR-60CFM	3.6.4	Fan Module for the Catalyst 3750-E and 3560-E Series	S

Cisco Catalyst 3560 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3560 Series in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)
- [Additional Technologies, page 7-70](#)

Cisco Catalyst 3560 Series—Supported Service Events

Table 7-19 Supported Service Events for Cisco Catalyst 3560 Series—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Discard Packets	3.6.0	N
Dropped Packets	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Rx Over Utilized	3.6.0	N
Tx Over Utilized	3.6.0	N
VPN Leak	3.6.0	N
Cloud Problem	3.6.0	N
Card Up/Down	3.6.0	Y

Cisco Catalyst 3750 Series Switches

This section includes the following information about Cisco 3750 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 3750 Series Switches](#)):

- [Cisco 3750 Series—Supported Software Versions, page 7-14](#)
- [Cisco 3750 Series—Supported Topologies, page 7-14](#)
- [Cisco 3750 Series—Supported Technologies, page 7-14](#)
- [Cisco 3750 Series—Supported Service Events, page 7-14](#)

Cisco 3750 Series—Supported Software Versions

Table 7-20 Supported Software Versions for Cisco 3750 Series—Cisco ANA Version 3.6.6

Software Version	ANA Version	Certification Level
IOS 12.2(25)EY3	3.6.0	S
12.2(25)SEC2	3.6.2	S

**Note**

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco 3750 Series—Supported Topologies

Table 7-21 Supported Topologies for Cisco 3750 Series—Cisco ANA Version 3.6.6

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco 3750 Series—Supported Technologies

The following technologies are supported by the Cisco 3750 Series in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)

Cisco 3750 Series—Supported Service Events

Table 7-22 Supported Service Events for Cisco 3750 Series—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N

Table 7-22 Supported Service Events for Cisco 3750 Series—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Discard Packets	3.6.0	N
Dropped Packets	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Rx Over Utilized	3.6.0	N
Tx Over Utilized	3.6.0	N
Card Up/Down	3.6.0	Y

Cisco Catalyst 3750 Metro Series Switches

This section includes the following information about Cisco Catalyst 3750 Metro Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 3750 Metro Series Switches](#)):

- [Cisco Catalyst 3750 Metro Series—Supported Software Versions](#), page 7-15
- [Cisco Catalyst 3750 Metro Series—Supported Topologies](#), page 7-16
- [Cisco Catalyst 3750 Metro Series—Supported Modules](#), page 7-16
- [Cisco Catalyst 3750 Metro Series—Supported Technologies](#), page 7-17
- [Cisco Catalyst 3750 Metro Series—Supported Service Events](#), page 7-17

Cisco Catalyst 3750 Metro Series—Supported Software Versions

Table 7-23 Supported Software Versions for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.6.6

Software Version	ANA Version	Certification Level
12.2.(40)SE	3.6.3	S
12.2(44)SE1	3.6.3	S ¹
12.2(25)SEG1	3.6.3	S ²
12.2(25)SEB4	3.6.3	S ³
12.2.(40)SE	3.6.3	S ⁴
12.2(25)EY3	3.6.3	S ⁵
12.2(25)EY*	3.6.3	S

Table 7-23 Supported Software Versions for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.6.6 (Continued)

Software Version	ANA Version	Certification Level
12.2(37)SE1	3.6.3	S ⁶
12.2(37)SE*	3.6.3	S
12.2(35)SE	3.6.3	S
12.2(46)SE	3.6.4	S ⁷
12.2(50)SE	3.6.6	V

1, 2, 3, 4, 5, 6, 7 Tested on lab device.



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 3750 Metro Series—Supported Topologies

Table 7-24 Supported Topologies for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.6.6

Topology Type	Link Type	ANA Version
BGP	BGP	3.6.0
Ethernet	Ethernet	3.6.0
MPLS	MPLS	3.6.0
PPP/HDLC	PPP or HDLC	3.6.0

Cisco Catalyst 3750 Metro Series—Supported Modules

Table 7-25 Supported Modules for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
CATALYST375024ME	3.6.0	Metro Ethernet Catalyst 3750 Module. 24-10/100 + 2 SFP (Small Formfactor Pluggable) ports for downlinks	S
SFP-GE-L	3.6.5	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength, extended operating temperature range and DOM support	S
GLC-LH-SM	3.6.5	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength	S

Cisco Catalyst 3750 Metro Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3750 Metro Series in Cisco ANA Version 3.6.6:

- [IP](#), page 7-49
- [Routing Protocols](#), page 7-51
- [Ethernet \(IEEE 802.3\)](#), page 7-52
- [MPLS](#), page 7-60
- [MPLS-TE](#), page 7-62
- [VPN](#), page 7-63
- [PWE3](#), page 7-64
- [ACL](#), page 7-65
- [Physical Equipment](#), page 7-66
- [Base Logical Components](#), page 7-67
- [Common](#), page 7-68
- [Additional Technologies](#), page 7-70

Cisco Catalyst 3750 Metro Series—Supported Service Events

Table 7-26 *Supported Service Events for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Discard Packets	3.6.0	N
Dropped Packets	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Rx Over Utilized	3.6.0	N
Tx Over Utilized	3.6.0	N
BGP Neighbor Down	3.6.0	Y
Card Up/Down	3.6.0	Y

Cisco Catalyst 4000 Series Switches

This section includes the following information about Cisco Catalyst 4000 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 4000 Series Switches](#)):

- [Cisco Catalyst 4000 Series—Supported Software Versions](#), page 7-18
- [Cisco Catalyst 4000 Series—Supported Topologies](#), page 7-18
- [Cisco Catalyst 4000 Series—Supported Modules](#), page 7-19
- [Cisco Catalyst 4000 Series—Supported Technologies](#), page 7-20
- [Cisco Catalyst 4000 Series—Supported Service Events](#), page 7-20

Cisco Catalyst 4000 Series—Supported Software Versions

Table 7-27 *Supported Software Versions for Cisco Catalyst 4000 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
IOS 12.1(12c)EW1	3.6.0	S
IOS 12.2(20)EWA1	3.6.0	S
IOS 12.2(25)SG	3.6.0	S
12.2(31)SGA2	3.6.2	S

**Note**

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 4000 Series—Supported Topologies

Table 7-28 *Supported Topologies for Cisco Catalyst 4000 Series—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 4000 Series—Supported Modules

Table 7-29 Supported Modules for Cisco Catalyst 4000 Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
WS-X4124-FX-MT	3.6.0	FE Switching Module, 24-port 100FX (MTRJ)	V
WS-X4148-FX-MT	3.6.0	FE Switching Module, 48-100FX MMF (MTRJ)	V
WS-X4148-RJ	3.6.0	10/100 Fast Ethernet Module, 48 Ports (RJ-45)	V
WS-X4148-RJ21	3.6.0	Telco switch module, 48-port 10/100 (4xRJ21)	V
WS-X4148-RJ45V	3.6.0	Inline Power 10/100, 48-port (RJ45)	V
WS-X4232-GB-RJ	3.6.0	E/FE/GE Module, 2-GE (GBIC), 32-10/100 FE (RJ-45)	V
WS-X4232-RJ-XX	3.6.0	FE Base Module, 32-10/100(RJ45)+ Modular Uplink slot	V
WS-X4306-GB	3.6.0	Gigabit Ethernet Module, 6 Ports (GBIC)	V
WS-X4412-2GB-T	3.6.0	GE Module, 12-1000T (RJ45)+2-1000X (GBIC Slot)	V
WS-X4424-GB-RJ-45	3.6.0	24 port 10/100/1000 Auto-Sensing Module (RJ45)	V
WS-X4448-GB-RJ45	3.6.0	48 port 10/100/1000 Auto-Sensing Module (RJ45)	V
WS-X4418-GB	3.6.0	GE Module, Server Switching 18 Ports (GBIC)	V
WS-U4504-FX-MT	3.6.0	FE Uplink Daughter Card, 4-port 100FX (MTRJ)	V
WS-X4014	3.6.0	Catalyst 4006 Supervisor 3, Spare	V
WS-X4302-GB	3.6.0	2-port 1000BASE-X (GBIC) Gigabit Ethernet	V
WS-X4424-GB-RJ45	3.6.0	24-port 10/100/1000BASE-T Gigabit Ethernet switching module	V
WS-X4448-GB-LX	3.6.0	48-port 1000BASE-LX (SFP included) Gigabit Ethernet switching module	V
WS-X4248-RJ45V	3.6.0	48-port PoE 10/100BASE-TX switching module	V
WS-X4248-RJ21V	3.6.0	48-port PoE 10/100 BASE-TX switching module	V
WS-X4548-GB-RJ45V	3.6.0	48-port PoE 10/100/1000BASE-T switching module	V
WS-X4548-GB-RJ45	3.6.0	48-port Gigabit Ethernet 10/100/1000BASE-T switching module	V
CWDM-SFP-1470	3.6.0	CWDM SFP 1470 nm, Gigabit Ethernet and 1G/2G FC	V
CWDM-SFP-1490	3.6.0	CWDM SFP 1490 nm, Gigabit Ethernet and 1G/2G FC	V
CWDM-SFP-1510	3.6.0	CWDM SFP 1510 nm, Gigabit Ethernet and 1G/2G FC	V
CWDM-SFP-1530	3.6.0	CWDM SFP 1530 nm, Gigabit Ethernet and 1G/2G FC	V
CWDM-SFP-1550	3.6.0	CWDM SFP 1550 nm, Gigabit Ethernet and 1G/2G FC	V

Table 7-29 Supported Modules for Cisco Catalyst 4000 Series—Cisco ANA Version 3.6.6 (Continued)

Module Name	ANA Version	Module Description	Certification Level
CWDM-SFP-1570	3.6.0	CWDM SFP 1570 nm, Gigabit Ethernet and 1G/2G FC	V
CWDM-SFP-1590	3.6.0	CWDM SFP 1590 nm, Gigabit Ethernet and 1G/2G FC	V
CWDM-SFP-1610	3.6.0	CWDM SFP 1610 nm, Gigabit Ethernet and 1G/2G FC	V

Cisco Catalyst 4000 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4000 Series in Cisco ANA Version 3.6.6:

- [IP](#), page 7-49
- [Ethernet \(IEEE 802.3\)](#), page 7-52
- [Physical Equipment](#), page 7-66
- [Base Logical Components](#), page 7-67
- [Common](#), page 7-68

Cisco Catalyst 4000 Series—Supported Service Events

Table 7-30 Supported Service Events for Cisco Catalyst 4000 Series—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Card Up/Down	3.6.0	Y

Cisco Catalyst 4500 Series Switches

This section includes the following information about Cisco Catalyst 4500 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 4500 Series Switches](#)):

- [Cisco Catalyst 4500 Series—Supported Software Versions, page 7-21](#)
- [Cisco Catalyst 4500 Series—Supported Topologies, page 7-22](#)
- [Cisco Catalyst 4500 Series—Supported Modules, page 7-22](#)
- [Cisco Catalyst 4500 Series—Supported Technologies, page 7-24](#)
- [Cisco Catalyst 4500 Series—Supported Service Events, page 7-24](#)

Cisco Catalyst 4500 Series—Supported Software Versions

Table 7-31 *Supported Software Versions for Cisco Catalyst 4500 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
IOS 12.1(12c)EW1	3.6.0	V
IOS 12.2(20)EWA1	3.6.0	V
IOS 12.2(25)SG	3.6.0	V
12.1(13)EW	3.6.0	S
12.2(20)EWA	3.6.0	S
12.2(31)SGA2	3.6.2	S
12.2(25)EWA14	3.6.6	V ¹
12.2(52)SG	3.6.6	V

¹Scheme added at customer's request



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 4500 Series—Supported Topologies

Table 7-32 Supported Topologies for Cisco Catalyst 4500 Series—Cisco ANA Version 3.6.6

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Framerelay	Framerelay	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 4500 Series—Supported Modules

Table 7-33 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
WS-X4013+	3.6.0	Catalyst 4500 Supervisor II-Plus (IOS), 2GE,Console(RJ-45)	S
WS-X4013+TS	3.6.0	Catalyst 4503 SupII-Plus-TS, 12 10/100/1000 PoE+8 SFP slots	S
WS-X4014	3.6.0	Supervisor Engine III	S
WS-X4515	3.6.0	Catalyst 4500 Supervisor IV (2 GE),Console(RJ-45)	S
WS-X4516	3.6.0	Catalyst 4500 Supervisor V (2 GE),Console(RJ-45)	S
WS-X4516-10GE	3.6.0	Catalyst 4500 Supervisor V-10GE, 2x10GE (X2) and 4x1GE (SFP)	S
WS-X4124-FX-MT	3.6.0	24-Port 100BASE-FX Fast Ethernet Switching Module	S
WS-X4148-FX-MT	3.6.0	Catalyst 4500 FE Switching Module, 48-100FX MMF(MTRJ)	S
WS-X4148-RJ	3.6.0	Catalyst 4500 10/100 Auto Module, 48-Ports (RJ-45)	S
WS-X4148-RJ21	3.6.0	Catalyst 4500 10/100 Module, 48-Ports Telco (4xRJ21)	S
WS-X4148-RJ45V	3.6.0	10/100BASE-TX Fast Ethernet switching module with Cisco pre-standard PoE	S
WS-X4248-FE-SFP	3.6.0	Catalyst 4500 48-Port 100BASE-X (SFPs Optional)	S
WS-X4224-RJ45V	3.6.0	Catalyst 4500 10/100 PoE 802.3af 24-ports (RJ45)	S
WS-X4248-RJ21V	3.6.0	Catalyst 4500 PoE 802.3af 10/100, 48-Ports (RJ21)	S
WS-X4248-RJ45V	3.6.0	Catalyst 4500 PoE 802.3af 10/100, 48-Ports (RJ45)	S
WS-X4232-GB-RJ	3.6.0	Catalyst 4500 32-10/100 (RJ-45),2-GE(GBIC)	S
WS-X4232-RJ-XX	3.6.0	Catalyst 4500 10/100 Module,32-ports(RJ45)+Modular uplinks	S

Table 7-33 **Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
WS-U4504-FX-MT	3.6.0	Catalyst 4500 4-port 100FX(MTRJ) Uplink for WS-X4232-RJ-XX	S
WS-X4302-GB	3.6.0	Catalyst 4500 Gigabit Ethernet Module, 2-Ports (GBIC)	S
WS-X4306-GB	3.6.0	Catalyst 4500 Gigabit Ethernet Module, 6-Ports (GBIC)	S
WS-X4506-GB-T	3.6.0	Catalyst 4500 6-Port 10/100/1000 PoE or SFP (Optional)	S
WS-X4412-2GB-T	3.6.0	1000BASE-T plus 1000BASE-X Gigabit Ethernet switching module	S
WS-X4418-GB	3.6.0	Catalyst 4500 GE Module, Server Switching 18-Ports (GBIC)	S
WS-X4424-GB-RJ45	3.6.0	Catalyst 4500 24-port 10/100/1000 Module (RJ45)	S
WS-X4448-GB-LX	3.6.0	1000BASE-X Gigabit Ethernet switching module	S
WS-X4448-GB-RJ45	3.6.0	Catalyst 4500 48-Port 10/100/1000 Module (RJ45)	S
WS-X4524-GB-RJ45V	3.6.0	Catalyst 4500 PoE 802.3af 10/ 100/1000 24-ports (RJ45)	S
WS-X4548-GB-RJ45	3.6.0	Catalyst 4500 Enhanced 48-Port 10/100/1000 Base-T (RJ-45)	S
WS-X4448-GB-SFP	3.6.0	Catalyst 4500 48-Port 1000Base-X (SFPs Optional)	S
WS-X4548-GB-RJ45V	3.6.0	Catalyst 4500 PoE 802.3af 10/100/1000, 48-Ports (RJ45)	S
WS-X4604-GWY	3.6.0	Catalyst 4000 Access Gateway Module	S
WS-X4232-L3	3.6.0	Layer 3 Services Module	S
WS-X4148-FE-BD-LC	3.6.0	48-Port 100BASE-BX10-D Fast Ethernet Switching Module	S
WS-X4148-FE-LX-MT	3.6.0	48-Port 100Base-LX-MT Fast Ethernet Switching Module	S
WS-X4124-RJ45	3.6.0	24-Port 10/100BASE-TX Fast Ethernet Switching Module	S
PWR-C45-1300ACV	3.6.4	Cisco 4506 Power supply module	S

Cisco Catalyst 4500 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4500 Series in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Routing Protocols, page 7-51](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [VPN, page 7-63](#)
- [ACL, page 7-65](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)

Cisco Catalyst 4500 Series—Supported Service Events

Table 7-34 *Supported Service Events for Cisco Catalyst 4500 Series—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
All IP Interfaces Down / Active IP Interfaces Found	3.6.0	Y
Interface Status Down/Up	3.6.0	Y
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Card Up/Down	3.6.0	Y

Cisco Catalyst 4900 Series Switches

This section includes the following information about Cisco Catalyst 4900 Series switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 4900 Series Switches](#)):

- [Cisco Catalyst 4900 Series—Supported Software Versions, page 7-25](#)
- [Cisco Catalyst 4900 Series—Supported Topologies, page 7-25](#)
- [Cisco Catalyst 4900 Series—Supported Modules, page 7-26](#)
- [Cisco Catalyst 4900 Series—Supported Technologies, page 7-27](#)
- [Cisco Catalyst 4900 Series—Supported Service Events, page 7-27](#)

Cisco Catalyst 4900 Series—Supported Software Versions

Table 7-35 *Supported Software Versions for Cisco Catalyst 4900 Series—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
IOS 12.2(31)SG	3.6.1	S
IOS 12.2(31)SGA1	3.6.1	S
IOS 12.2(25)EWA6	3.6.2	S
IOS 12.2(25)EWA4	3.6.2	S
IOS 12.2(25)EWA	3.6.3	S
IOS 12.2(25)EWA2	3.6.3	S
IOS 12.2(52)SG	3.6.6	S



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 4900 Series—Supported Topologies

Table 7-36 *Supported Topologies for Cisco Catalyst 4900 Series—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.1
Physical Layer	Physical Layer	3.6.1

Cisco Catalyst 4900 Series—Supported Modules

Table 7-37 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
GLC-LH-SM	3.6.1	Gigabit Ethernet SFP, LC connector LH transceiver	S
GLC-SX-MM	3.6.1	Gigabit Ethernet SFP, LC connector SX transceiver	S
GLC-ZX-SM	3.6.1	Gigabit Ethernet SFP, LC connector ZX transceiver	S
GLC-T	3.6.1	Gigabit Ethernet SFP, RJ-45 connector, 1000BASE-T transceiver	S
GLC-BX-D	3.6.1	1000BASE-BX10-D downstream bidirectional single fiber; with DOM	S
GLC-BX-U	3.6.1	1000BASE-BX10-U upstream bidirectional single fiber; with DOM	S
CWDM-SFP-1470	3.6.1	Longwave 1470 nm laser single-mode	S
CWDM-SFP-1490	3.6.1	Longwave 1490 nm laser single-mode	S
CWDM-SFP-1510	3.6.1	Longwave 1510 nm laser single-mode	S
CWDM-SFP-1530	3.6.1	Longwave 1530 nm laser single-mode	S
CWDM-SFP-1550	3.6.1	Longwave 1550 nm laser single-mode	S
CWDM-SFP-1570	3.6.1	Longwave 1570 nm laser single-mode	S
CWDM-SFP-1590	3.6.1	Longwave 1590 nm laser single-mode	S
CWDM-SFP-1610	3.6.1	Longwave 1610 nm laser single-mode	S
CWDM-SFP-XXXX	3.6.1	CWDM small form-factor pluggable module	S
X2-10GB-LR	3.6.1	10GBASE-LR single-mode X2 module	S
X2-10GB-SR	3.6.1	10GBASE-SR single-mode X2 module	S
X2-10GB-CX4	3.6.1	10GBASE-CX4 single-mode X2 module	S
X2-10GB-LX4	3.6.1	10GBASE-LX4 single-mode X2 module	S
X2-10GB-ER	3.6.1	10GBASE-ER single-mode X2 module	S
WS-C4948	3.6.1	Catalyst 4000 series fixed configuration switch with 48 10/100/1000BaseT wirespeed ports and 4 1000BaseX SFP ports	S
WS-C4948-10GE	3.6.1	Catalyst 4000 series fixed configuration switch with 48 10/100/1000BaseT wirespeed ports and 2 10Gbps X2 ports	S
X2-10GE-CX4	3.6.1	10GBASE-CX4 X2 Module	S
X2-10GE-ER	3.6.1	10GBASE-ER X2 Module	S
X2-10GE-SR	3.6.1	10GBASE-SR X2 Module	S
X2-10GE-LX4	3.6.1	10GBASE-LX4 X2 Module	S
X2-10GE-LR	3.6.1	10GBASE-LR X2 Module	S

Table 7-37 *Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.6.6 (Continued)*

Module Name	ANA Version	Module Description	Certification Level
CSS5-CABLX-LCSC	3.6.1	Cisco CSS 11500 10m fiber single-mode LX LC-to-SC connectors	S
CSS5-CABSX-LC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC connectors	S
CSS5-CABSX-LCSC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC-to-SC connectors	S
CAB-SM-LCSC-1M	3.6.1	1m fiber single-mode LC-to-SC connectors	S
CAB-SM-LCSC-5M	3.6.1	5m fiber single-mode LC-to-SC connectors	S

Cisco Catalyst 4900 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4900 Series in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Routing Protocols, page 7-51](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [VPN, page 7-63](#)
- [ACL, page 7-65](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)
- [Additional Technologies, page 7-70](#)

Cisco Catalyst 4900 Series—Supported Service Events

Table 7-38 *Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
All IP Interfaces Down / Active IP Interfaces Found	3.6.1	Y
Interface Status Down/Up	3.6.1	Y
Card In/Out	3.6.1	Y
Link Down/Up	3.6.1	Y
Device Unreachable	3.6.1	N
CPU Over Utilized	3.6.1	N
Memory Over Utilized	3.6.1	N

Table 7-38 Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
Device Unsupported	3.6.1	N
Discard Packets	3.6.1	N
Dropped Packets	3.6.1	N
Module Unsupported	3.6.1	N
Port Flapping	3.6.1	N
Port Down	3.6.1	Y
Rx Over Utilized	3.6.1	N
Tx Over Utilized	3.6.1	N
Cloud Problem	3.6.1	N
Layer 2 Tunnel Down	3.6.1	N
Card Up/Down	3.6.1	Y

Cisco ME 4900 Series Ethernet Switch

This section includes the following information about Cisco 4924 ME switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco ME 4900 Series Ethernet Switch](#)):

- [Cisco 4924 ME—Supported Software Versions, page 7-28](#)
- [Cisco 4924 ME—Supported Topologies, page 7-29](#)
- [Cisco 4924 ME—Supported Modules, page 7-29](#)
- [Cisco 4924 ME—Supported Technologies, page 7-30](#)
- [Cisco 4924 ME—Supported Service Events, page 7-31](#)

Cisco 4924 ME—Supported Software Versions

Table 7-39 Supported Software Versions for Cisco 4924 ME—Cisco ANA Version 3.6.6

Software Version	ANA Version	Certification Level
12.2(25)EWA	3.6.3	S
12.2(25)EWA4	3.6.3	S
12.2(25)EWA6	3.6.3	S
12.2(31)SG	3.6.3	S
12.2(31)SGA1	3.6.1	S
12.2(46)SG	3.6.6	S
12.2(50)SG	3.6.6	V

**Note**

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco 4924 ME—Supported Topologies

Table 7-40 Supported Topologies for Cisco 4924 ME—Cisco ANA Version 3.6.6

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.1
Physical Layer	Physical Layer	3.6.1

Cisco 4924 ME—Supported Modules

Table 7-41 Supported Modules for Cisco 4924 ME—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
ME-4924-10GE	3.6.1	Cisco ME 4924-10GE, IP Base software image (RIP, static routes), no power supply, fan tray	S
X2-10GE-CX4	3.6.1	10GBASE-CX4 X2 Module	S
X2-10GE-ER	3.6.1	10GBASE-ER X2 Module	S
X2-10GE-SR	3.6.1	10GBASE-SR X2 Module	S
X2-10GE-LX4	3.6.1	10GBASE-LX4 X2 Module	S
X2-10GE-LR	3.6.1	10GBASE-LR X2 Module	S
GLC-LH-SM	3.6.1	Gigabit Ethernet SFP, LC connector LH transceiver	S
GLC-SX-MM	3.6.1	Gigabit Ethernet SFP, LC connector SX transceiver	S
GLC-ZX-SM	3.6.1	Gigabit Ethernet SFP, LC connector ZX transceiver	S
GLC-T	3.6.1	Gigabit Ethernet SFP, RJ-45 connector, 1000BASE-T transceiver	S
GLC-BX-D	3.6.1	1000BASE-BX10-D downstream bidirectional single fiber; with DOM	S
GLC-BX-U	3.6.1	1000BASE-BX10-U upstream bidirectional single fiber; with DOM	S
CWDM-SFP-1470	3.6.1	Cisco CWDM SFP 1470 nm; Gigabit Ethernet and 1G/2G FC (gray)	S
CWDM-SFP-1490	3.6.1	Cisco CWDM SFP 1490 nm; Gigabit Ethernet and FC (violet)	S
CWDM-SFP-1510	3.6.1	Cisco CWDM SFP 1510 nm; Gigabit Ethernet and 1G/2G FC (blue)	S

Table 7-41 **Supported Modules for Cisco 4924 ME—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
CWDM-SFP-1530	3.6.1	Cisco CWDM SFP 1530 nm; Gigabit Ethernet and 1G/2G FC (green)	S
CWDM-SFP-1550	3.6.1	Cisco CWDM SFP 1550 nm; Gigabit Ethernet and 1G/2G FC (yellow)	S
CWDM-SFP-1570	3.6.1	Cisco CWDM SFP 1570 nm; Gigabit Ethernet and 1G/2G FC (orange)	S
CWDM-SFP-1590	3.6.1	Cisco CWDM SFP 1590 nm; Gigabit Ethernet and 1G/2G FC (red)	S
CWDM-SFP-1610	3.6.1	Cisco CWDM SFP 1610 nm; Gigabit Ethernet and 1G/2G FC (brown)	S
CSS5-CABLX-LCSC	3.6.1	Cisco CSS 11500 10m fiber single-mode LX LC-to-SC connectors	S
CSS5-CABSX-LC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC connectors	S
CSS5-CABSX-LCSC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC-to-SC connectors	S
CAB-SM-LCSC-1M	3.6.1	1m fiber single-mode LC-to-SC connectors	S
CAB-SM-LCSC-5M	3.6.1	5m fiber single-mode LC-to-SC connectors	S
WS-X4991	3.6.6	Fan Tray	V
PWR-C49-300DC	3.6.6	Power Supply (DC 300W)	V

Cisco 4924 ME—Supported Technologies

The following technologies are supported by the Cisco 4924 ME in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Routing Protocols, page 7-51](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [ACL, page 7-65](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)
- [Additional Technologies, page 7-70](#)

Cisco 4924 ME—Supported Service Events

Table 7-42 *Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Card In/Out	3.6.1	N
Link Down/Up	3.6.1	N
Device Unreachable	3.6.1	N
CPU Over Utilized	3.6.1	N
Memory Over Utilized	3.6.1	N
Device Unsupported	3.6.1	N
Discard Packets	3.6.1	N
Dropped Packets	3.6.1	N
Module Unsupported	3.6.1	N
Port Flapping	3.6.1	N
Port Down	3.6.1	N
Rx Over Utilized	3.6.1	N
Tx Over Utilized	3.6.1	N
Card Up/Down	3.6.1	N

Cisco Catalyst 6500 Series (CatOS) Switches

This section includes the following information about Cisco Catalyst 6500 Series (CatOS) switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 6500 Series \(CatOS\) Switches](#)):

- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Software Versions, page 7-32](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Topologies, page 7-32](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Modules, page 7-32](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Technologies, page 7-35](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Service Events, page 7-36](#)

Cisco Catalyst 6500 Series (CatOS)—Supported Software Versions

Table 7-43 *Supported Software Versions for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
6.4(10)	3.6.3	V ¹
7.6(1)	3.6.3	V ²
7.6(8)	3.6.3	V ³
8.3(4)	3.6.3	V ⁴
8.4.1	3.6.3	V ⁵

1, 2, 3, 4, 5 as 6500



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 6500 Series (CatOS)—Supported Topologies

Table 7-44 *Supported Topologies for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 6500 Series (CatOS)—Supported Modules

Table 7-45 *Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6*

Module Name	ANA Version	Module Description	Certification Level
AIP	3.6.0	ATM Interface Processor	S
CAT6509	3.6.0	Catalyst 6500 Plus with 9 slots	V
CAT6K-MSFC	3.6.0	Multilevel Switching Feature Card for the Catalyst 6000 series	S
CAT6K-MSFC2	3.6.0	Multilevel Switching Feature Card Version 2 for the Catalyst 6000 series	S
CAT6K-WSF-6700-CFC	3.6.0	Catalyst 6500 centralized Forwarding Card	S

Table 7-45 **Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
CAT6K-WSF-6K-DFC3A	3.6.0	Catalyst 6500 Distributed L3 switching engine IIIa	S
CAT6K-WSF-6K-PFC3A	3.6.0	Catalyst 6500 Centralized L3 switching engine IIIa	S
CAT6K-WSF-6K-VPWR-GE	3.6.0	Cat6k voice daughter cards	S
CAT6K-WS-SUP32-GE-3B	3.6.0	cat6k-ws-sup32-ge-3b	S
CAT6K-WS-SUP720	3.6.0	Catalyst 6500 Supervisor Module 720 CPU board	S
CAT6K-WS-SUP720-BASE	3.6.0	Catalyst 6500 Supervisor Module 720 base board	S
CAT6K-WS-SVC-IDSM2	3.6.0	Catalyst 6500 Intrusion Detection Module	S
CAT6K-WSX-6066-SLB-APC	3.6.0	Content Switching Module	S
CAT6K-WSX-6148-GE-TX	3.6.0	Catalyst 6000 48 port 10/100/1000BaseT(RJ-45) module	S
CAT6K-WSX-6148-RJ45	3.6.0	48 port 10/100BaseTX(RJ-45) module	S
CAT6K-WSX-6248A-RJ45	3.6.0	Catalyst 6000 48-port 10/100BaseTX RJ-45	S
CAT6K-WSX-6248-RJ45	3.6.0	Catalyst 6000 Family 48-port 10/100 RJ-45 module	S
CAT6K-WSX-6348-RJ45	3.6.0	48-port 10/100 ethernet module	S
CAT6K-WSX-6416-GBIC	3.6.0	16-port GBIC Gigabit ethernet module	S
CAT6K-WSX-6515-GETX	3.6.0	Catalyst 6500 16 port 10/100/1000BaseT (RJ-45) module	S
CAT6K-WSX-6516A-GBIC	3.6.0	Catalyst 6500 16 port 1000BaseX (GBIC)	S
CAT6K-WSX-6516-GBIC	3.6.0	Catalyst 6500 16 port 1000BaseX GBIC	S
CAT6K-WSX-6524-MMMT	3.6.0	Catalyst 6500 24 port 100BaseX MM (MT-RJ) module	S
CAT6K-WSX-6548-GETX	3.6.0	Catalyst 6500 48 port 10/100/1000 (RJ-45)	S
CAT6K-WSX-6548-RJ21	3.6.0	Catalyst 6500 48 port 10/100BaseTX (RJ-21)	S
CAT6K-WSX-6548-RJ45	3.6.0	48 port 10/100 Hydra2+/Hydra2V+	S
CAT6K-WSX-6704-10GE	3.6.0	Catalyst 6500 4 port 10 GE	S
CAT6K-WSX-6724-SFP	3.6.0	Catalyst 6500 24 port 1000Base FX (SFP GBIC)	S
CAT6K-WSX-6748-GETX	3.6.0	Catalyst 6500 48 port 10/100/1000 (RJ-45)	S
CAT6K-WSX-SUP1A-2GE	3.6.0	Catalyst 6500 2 port 1000BaseX Supervisor module (GBIC)	S
CAT6K-WSX-SUP2-2GE	3.6.0	Supervisor 2 with 2 Gigabit Ethernet ports	S
CATALYST 6500 FIREWALL MODULE	3.6.0	Catalyst 6500 Firewall Module	S
CEF720 48 PORT 1000MB SFP	3.6.0	Catalyst 6500 48 port 1000Base FX (SFP GBIC)	S
CISCO ME 6524 ETHERNET SWITCH	3.6.0	Cisco ME 6524 Ethernet Switch	S
FSIP	3.6.0	Fast Serial Interface processor	S
GSR-ALARM16	3.6.0	gsr-alarm16	V

Table 7-45 **Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
HDV	3.6.0	High Density Voice module	V
MIP	3.6.0	MultiChanel Interface Processor	S
MSFC2A ROUTE ENGINE	3.6.0	MSFC2A Route Engine	S
OC192-POS-RPR1-SM-VSR-S PA	3.6.0	1 port OC-192c/STM-64 POS/RPR single mode very short reach Shared Port Adapter =SPA=	V
PA-1T3-PLUS	3.6.0	pa-1t3-plus	V
PA-2FEISL-TX	3.6.0	pa-2feisl-tx	V
PA-2T3-PLUS	3.6.0	pa-2t3-plus	V
PA-8CE1	3.6.0	pa-8ce1	V
PA-A4T	3.6.0	pa-a4t	S
PA-A8T-V35	3.6.0	pa-a8t-v35	S
PA-AH1T	3.6.0	pa-ah1t	S
PA-AH2T	3.6.0	pa-ah2t	S
PA-ATMDX-DS3	3.6.0	pa-atmdx-ds3	S
PA-ATMDX-E3	3.6.0	pa-atmdx-e3	S
PA-ATMDX-MM-OC3	3.6.0	pa-atmdx-mm-oc3	V
PA-ATMDX-SMI-OC3	3.6.0	pa-atmdx-smi-oc3	V
PA-ATMDX-SML-OC3	3.6.0	pa-atmdx-sml-oc3	S
PA-CE3	3.6.0	pa-ce3	V
PA-POSSW-LR	3.6.0	pa-possw-lr	V
PA-POSSW-MM	3.6.0	pa-possw-mm	V
PA-POSSW-SM	3.6.0	pa-possw-sm	V
PM-1FE-1T1	3.6.0	pm-1fe-1t1	V
POLICY FEATURE CARD 3	3.6.0	Policy Feature Card 3	V
POS-OC12-MM	3.6.0	pos-oc12-mm	V
RP	3.6.0	ROMmon Recovery Procedure	V
SPA-10X1GE	3.6.1	10-port Gigabit Ethernet SPA, SFP Optics	S
SPA-1XTENGE-XFP	3.6.1	1-port 10 Gigabit Ethernet SPA, LANPHY XFP Optics	S
SPA-2XOC3-ATM	3.6.1	2-port OC-3c/STM-1c ATM SPA	S
SPA-2XOC48POS/RPR	3.6.1	1-port 10 Gigabit Ethernet Shared Port Adapter XFP based	S
SPA-4XOC3-ATM	3.6.1	4-port OC-3c/STM-1c ATM SPA	S
TRIP	3.6.0	trip	S
VPN MODULE	3.6.0	VPN Module	V

Table 7-45 **Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
VPN MODULE SUPPORTING 3DES	3.6.0	VPN Module supporting 3DES	S
WS-C6500-SFM	3.6.0	Switch Fabric Module	V
WS-C6509-NEB-A	3.6.1	Enhanced 9-slot vertically oriented chassis	S
WS-F6K-PWR(INLINE POWER CARD)	3.6.0	CATALYST 6000 INLINE POWER CARD, REF	S
WS-SUP720-3BXL	3.6.0	Catalyst 6500/Cisco 7600 Supervisor 720 Fabric MSFC3 PFC3BXL	V
WS-SVC-ADM-1-K9=	3.6.0	Catalyst 6500 Cisco Anomaly Detection Module	V
WS-SVC-AGM-1-K9=	3.6.0	Catalyst 6500 Cisco Anomaly Guard Module	V
WS-SVC-IDS2-BUN-K9	3.6.1	Cisco Catalyst 6500 Series Intrusion Detection System (IDSM-2) Service Module	S
WS-SVC-SSL-1-K9=	3.6.0	SSL Module for Catalyst 6500	V
WS-X6148-FE-SFP	3.6.0	Cisco Catalyst 6500 48-port 100BASE-X SFP Module	V
WSX-6408A-GBIC	3.6.0	Catalyst 6000 8-port Gigabit Ethernet Module	S
WSX-6408-GBIC	3.6.0	Card with 8 Gigabit Ethernet ports for the Catalyst 6000 series	S
WS-X6500-SFM2	3.6.0	Switch Fabric Module 2	V
WVIC-2DSU-T1(V2)	3.6.0	wvic-2dsu-t1(V2)	V

Cisco Catalyst 6500 Series (CatOS)—Supported Technologies

The following technologies are supported by the Cisco Catalyst 6500 Series (CatOS) in Cisco ANA Version 3.6.6:

- [IP](#), page 7-49
- [Ethernet \(IEEE 802.3\)](#), page 7-52
- [Frame Relay](#), page 7-58
- [Point to Point](#), page 7-59
- [Physical Equipment](#), page 7-66
- [Base Logical Components](#), page 7-67
- [Common](#), page 7-68

Cisco Catalyst 6500 Series (CatOS)—Supported Service Events

Table 7-46 *Supported Service Events for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Cloud Problem	3.6.0	N
Card Up/Down	3.6.0	Y

Cisco Catalyst 6500 Series (IOS) Switches

This section includes the following information about Cisco Catalyst 6500 Series (IOS) switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco Catalyst 6500 Series \(IOS\) Switches](#)):

- [Cisco Catalyst 6500 Series \(IOS\)—Supported Software Versions, page 7-36](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Topologies, page 7-37](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Modules, page 7-38](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Technologies, page 7-44](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Service Events, page 7-45](#)

Cisco Catalyst 6500 Series (IOS)—Supported Software Versions

Table 7-47 *Supported Software Versions for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
IOS 12.1	3.6.1	S
IOS 12.2(17d)SXB	3.6.1	S
IOS 12.2(18)SXE*	3.6.1	S
IOS 12.2(18)SXF*	3.6.1	S

Table 7-47 **Supported Software Versions for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)**

Software Version	ANA Version	Certification Level
IOS 12.2(33)	3.6.1	S
IOS 12.2(33)SRA	3.6.1	S
IOS 12.2(33)SXH	3.6.3	S
IOS 12.1(13)E6	3.6.2	S
IOS 12.1(20)E3	3.6.2	S
IOS 12.2(18)SXD2	3.6.2	S
IOS 12.2(18)SXD5	3.6.2	S
IOS 12.2(33)SXH1	3.6.3	S
IOS 12.2(18)SXF7	3.6.2	S
IOS 12.2(33)SRA6	3.6.3	S
IOS 12.2(33)SXI	3.6.4	S
12.2(33)SXH2a	3.6.5	S
12.2(33)SXH2	3.6.6	S



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco Catalyst 6500 Series (IOS)—Supported Topologies

Table 7-48 **Supported Topologies for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6**

Topology Type	Link Type	ANA Version
BGP	BGP	3.6.0
Ethernet	Ethernet	3.6.0
MPLS	MPLS	3.6.0
PWE3 (Martini)	Tunnel	3.6.0
GRE Tunnel	GRE Tunnel	3.6.0
VPN (VRF)	VPN	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco Catalyst 6500 Series (IOS)—Supported Modules

Table 7-49 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6

Module Name	ANA Version	Module Description	Certification Level
7600-ES20	3.6.1	Cisco 7600 Series Ethernet Services Card	S
7600-ES20-10G3C	3.6.1	Cisco 7600 ES20 line card, 2x10GE XFP with DFC 3C	S
7600-ES20-10G3CXL	3.6.1	Cisco 7600 ES20 line card, 2x10GE XFP with DFC 3CXL	S
7600-ES20-GE3C	3.6.1	Cisco 7600 ES20 line card, 20xGE SFP with DFC 3C	S
7600-ES20-GE3CXL	3.6.1	Cisco 7600 ES20 line card, 20xGE SFP with DFC 3CXL	S
7600-ES20-PROC	3.6.1	7600 ES20 PROC FRU	S
7600-MSFC4	3.6.1	c7600 MSFC4 Daughterboard	S
7600-SIP-200	3.6.0	SPA Interface Processor-200	S
7600-SIP-400	3.6.0	SPA Interface Processor-400	S
7600-SIP-600	3.6.0	SPA Interface Processor-600	S
OSM-12CT3T1	3.6.0	12-port channelized/unchannelized CT3-T1	S
OSM-1CHOC12T3-SI	3.6.0	1-port channelized OC-12, SM-IR	S
OSM-1OC48-POS-SI+	3.6.0	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-IR	S
OSM-1OC48-POS-SL+	3.6.0	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-LR	S
OSM-1OC48-POS-SS+	3.6.0	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-SR	S
OSM-2+4GE-WAN+	3.6.0	4-port Gigabit Ethernet WAN (GBIC) with two Layer 2 LAN ports; CEF256	S
OSM-2OC12-ATM-MM+	3.6.0	Enhanced 2-port OC-12/STM-4 ATM OSM, MM	S
OSM-2OC12-ATM-SI+	3.6.0	Enhanced 2-port OC-12/STM-4 ATM OSM, SM-IR	S
OSM-2OC12-POS-SI+	3.6.0	Enhanced 2-port OC-12c/STM-4c POS, SM-IR; CEF256	S
OSM-4OC12-POS-SI+	3.6.0	Enhanced 4-port OC-12c/STM-4c POS, SM-IR; CEF256	S
OSM-4OC3-POS-SI+	3.6.0	Enhanced 4-port OC-3c/STM-1c POS, SM-IR;	S
PA-1FE-TX, -FX	3.6.0	1-port Fast Ethernet port adapter	S
PA-2FE-TX, -FX	3.6.0	2-port Fast Ethernet port adapter	S
PA-4T+	3.6.0	T1/E1 port adapters	S
PA-A3-E3	3.6.0	ATM with traffic shaping port adapters	S
PA-A3-T3	3.6.0	ATM with traffic shaping port adapters	S
PA-MC-4T1	3.6.0	T1/E1 port adapters	S

Table 7-49 **Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
PA-MC-8T1	3.6.0	T1/E1 port adapters	S
PA-MC-STM-1	3.6.0	Multichannel STM-1 port adapters	S
PA-POS-2OC3	3.6.0	2-port POS OC3c/STM1 port adapter	S
SFP-OC3-IR1	3.6.0	Intermediate range, single-mode fiber	S
SFP-OC3-LR1	3.6.0	Long range, single-mode fiber	S
SFP-OC3-MM	3.6.0	Short range, multimode fiber	S
SPA-10X1GE	3.6.0	10-port Gigabit Ethernet SPA, SFP Optics	S
SPA-10X1GE-V2	3.6.0	10-port Gigabit Ethernet SPA, SFP Optics	S
SPA-1XCHSTM1/OC3	3.6.0	1-port Channelized STM1/OC3 to DS0 SPA	S
SPA-1XOC12-ATM	3.6.0	1-Port OC-12c/STM-4c ATM SPA	S
SPA-1XOC12-POS	3.6.0	1-port OC-12c/STM-4c POS SPA	S
SPA-1XOC48-ATM	3.6.0	1 port OC-48c/STM-16 ATM SPA	S
SPA-1XTENGE-XFP	3.6.0	1-port 10 Gigabit Ethernet SPA, LANPHY XFP Optics	S
SPA-24CHT1-CE-ATM	3.6.0	24-Port Channelized T1/E1/J1 ATM CEoP SPA	S
SPA-2X1GE	3.6.0	2-port Gigabit Ethernet SPA, SFP Optics	S
SPA-2X1GE-V2	3.6.0	2-port Gigabit Ethernet SPA, SFP Optics	S
SPA-2XCT3/DS0	3.6.0	2-port Channelized T3 to DS0 SPA	S
SPA-2XOC3-ATM	3.6.0	2-port OC-3c/STM-1c ATM SPA	S
SPA-2XOC3-POS	3.6.0	2-port OC-3c/STM-1c POS SPA	S
SPA-2XOC48POS/RPR	3.6.1	1-port 10 Gigabit Ethernet Shared Port Adapter XFP based	S
SPA-2XOC48POS/RPR	3.6.0	2 port OC-48 POS/RPR SPA with SFP Optics	S
SPA-2XT3/E3	3.6.0	2-port Clear Channel T3/E3 SPA	S
SPA-4X1FE-TX-V2	3.6.0	4-port 10/100 Ethernet SPA TX	S
SPA-4XCT3/DS0	3.6.0	4-port Channelized T3 to DS0 SPA	S
SPA-4XOC3-ATM	3.6.0	4-port OC-3c/STM-1c ATM SPA	S
SPA-4XOC3-POS	3.6.0	4-port OC-3c/STM-1c POS SPA	S
SPA-4XOC48POS/RPR	3.6.0	4-port OC-48c/STM-16 POS/DPT/RPR SPA	S
SPA-4XT3/E3	3.6.0	4-port Clear Channel T3/E3 SPA	S
SPA-5X1GE	3.6.0	5-port Gigabit Ethernet SPA, SFP Optics	S
SPA-8X1FE-TX-V2	3.6.0	8-port 10/100 Ethernet SPA TX	S
SPA-8XCHT1E1	3.6.0	8-Port Channelized T1/E1 SPA	S
SPA-OC192POS-LR	3.6.0	1-port OC-192c/STM-64 POS/RPR SPA, SM-LR	S
SPA-OC192POS-XFP	3.6.0	1-port OC-192c/STM-64 POS/RPR SPA, XFP Optics	S
WS-C6509-E-FAN	3.6.0	High-capacity fan tray	S

Table 7-49 **Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
WS-C6509-NEB-A	3.6.1	Enhanced 9-slot vertically oriented chassis	S
WS-CAC-6000W	3.6.0	6000W AC power supply	S
WS-F6700-DFC3BXL	3.6.0	Distributed Forwarding Card 3BXL (DFC3BXL) for use on CEF720 modules	S
WS-F6700-DFC3C	3.6.0	Distributed Forwarding Card 3C (DFC3C) for use on CEF720 modules	S
WS-F6700-DFC3CXL	3.6.0	Distributed Forwarding Card 3CXL (DFC3CXL) for use on CEF720 modules	S
WS-F6K-FE48X2-AF	3.6.0	IEEE 802.3af PoE daughter card	S
WS-F6K-GE48-AF	3.6.0	IEEE 802.3af PoE daughter card	S
WS-F6K-MSFC2	3.6.1	Multilevel Switching Feature Card Version 2 for Catalyst 6000 that is treated as a standalone system by the NMS	S
WS-F6K-PFC2	3.6.1	Catalyst 6500 L3 switching engine II	S
WS-F6K-PFC3BXL	3.6.0	Policy Feature Card 3BXL (PFC3BXL)	V
WS-F6K-PFC3CXL	3.6.0	Policy Feature Card 3CXL (PFC3CXL)	S
WS-F6K-VPWR	3.6.0	PoE Daughter card	S
WS-F6K-VPWR-GE	3.6.0	PoE Daughter card	S
WS-G6483	3.6.0	10GBASE-ER serial 1550 nm extended-reach OIM	S
WS-G6488	3.6.0	10GBASE-LR serial 1310 nm long-reach OIM	S
WS-SUP32-10GE-3B	3.6.0	Supervisor Engine 32	S
WS-SUP32-GE-3B	3.6.0	Supervisor Engine 32	S
WS-SUP720-3B	3.6.0	Supervisor Engine 720 with PFC3B	V
WS-SUP720-3BXL	3.6.0	Supervisor Engine 720 with PFC3BXL	V
WS-SVC-IDS2-BUN-K9	3.6.1	Cisco Catalyst 6500 Series Intrusion Detection System (IDS-2) Service Module	S
WS-SVC-MWAM-1	3.6.0	Multi-Processor WAN Application Module	S
WS-SVC-NAM-1	3.6.0	Network Analysis module 1	S
WS-SVC-NAM-2	3.6.0	Network Analysis module 2	S
WS-X6148A-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module	S
WS-X6148A-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module	S
WS-X6148-FE-SFP	3.6.0	48 port 100BASE-FX Fast Ethernet Switching Module	S
WS-X6148-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module	S

Table 7-49 **Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
WS-X6148-RJ-21	3.6.0	48 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module	S
WS-X6148-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module	S
WS-X6148X2-RJ-45	3.6.0	96 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module	S
WS-X6196-RJ-21	3.6.0	96 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module	S
WS-X6248A-TEL	3.6.0	48 port 10/100TX RJ-21 Enhanced Ethernet/Fast Ethernet Switching Module	S
WS-X6248-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module	S
WS-X6248-TEL	3.6.0	48 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module	S
WS-X6316-GE-TX	3.6.0	16-port Gigabit Ethernet RJ-45	S
WS-X6324-100FX-SM	3.6.0	24 port 100FX Single Mode Fast Ethernet Switching Module	S
WS-X6348-RJ-21	3.6.0	6500 48 port 10/100BaseTX (RJ-21)	S
WS-X6348-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module	S
WS-X6408A-GBIC	3.6.0	8-port Gigabit Ethernet GBIC Enhanced QoS Module	S
WS-X6408-GBIC	3.6.0	8-port Gigabit Ethernet GBIC	S
WS-X6416-GBIC	3.6.0	16-port Gigabit Ethernet GBIC	S
WS-X6502-10GE	3.6.0	1-port 10-Gigabit Ethernet	S
WS-X6516A-GBIC	3.6.0	16-port Gigabit Ethernet GBIC	S
WS-X6516-GBIC	3.6.0	16-port Gigabit Ethernet GBIC	S
WS-X6516-GE-TX	3.6.0	16 port 10/100/1000 Base-T Ethernet Switching Module	S
WS-X6548-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module	S
WS-X6548-RJ-21	3.6.0	48 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module	S
WS-X6548-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module	S
WS-X6582-2PA	3.6.0	Enhanced FlexWAN Module;	S
WS-X6700-CFC	3.6.0	Centralized Forwarding Card	S
WS-X6704-10GE	3.6.0	4-port 10-Gigabit Ethernet	S
WS-X6724-SFP	3.6.0	24-port Gigabit Ethernet SFP	S

Table 7-49 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)

Module Name	ANA Version	Module Description	Certification Level
WS-X6748-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module	S
WS-X6748-SFP	3.6.0	48-port Gigabit Ethernet SFP	S
WS-X6816-GBIC	3.6.0	16-port Gigabit Ethernet GBIC	S
XENPAK-10GB-ER	3.6.0	10GBASE-ER Serial 1550-nm extended-reach, single-mode fiber (SMF), dispersion-shifted fiber (DSF)	S
XENPAK-10GB-SR	3.6.0	10GBASE-SR Serial 850-nm short-reach multimode fiber (MMF)	S
WS-6700-DFC3B	3.6.1	Catalyst 6500 Distributed forwarding card 3B	S
WS-6700-DFC3BXL	3.6.1	Catalyst 6500 Distributed forwarding card 3B XL	S
WS-X6148FE-SFP	3.6.1	Catalyst 6500 48 port 100Base-X SFP module	S
WS-X6K-S1A-MSFC2	3.6.1	Catalyst 6000 Supervisor Engine 1A, 2 Gigabit Ethernet, plus MSFC2 and policy feature card (PFC)	S
WS-X6K-SUP2-2GE	3.6.1	Supervisor 2 with 2 Gigabit Ethernet ports	S
WS-F6700-DFC3A	3.6.1	Distributed Forwarding Card 3	S
CEVFAN	3.6.1	Fan	S
DFC-3C	3.6.1	Distributed Forwarding Card 3C	S
PA-2CE/PRI	3.6.1	Not Found	S
PA-MC-2E1/120	3.6.1	2 port multichannel E1 port adapter with G.703 120ohm interf	S
PA-MCX-8TE1	3.6.1	8 port multichannel T1/E1 8PRI port adapter	S
PFC-3CXL	3.6.1	Policy Feature Card 3Cxl (PFC3CXL)	S
RSP720-3C-GE	3.6.1	Route Switch Processor 720 with PFC3C	S
WS-X6K-S2-MSFC2	3.6.1	Catalyst 6500 Supervisor Engine-2, 2GE, plus MSFC-2 / PFC-2	S
SFP-OC3-SR	3.6.1	OC3/STM1 SFP, Single-mode fiber, Short Reach	S
SPA-2X1GE-V2	3.6.2	2-Port Gigabit Ethernet Shared Port Adapter.	S
SPA-5X1GE-V2	3.6.2	5-Port Gigabit Ethernet Shared Port Adapter	S
SPA-CHOC3-CE-ATM	3.6.2	1-port Channelized OC3/STM-1 ATM + Circuit Emulation Shared Port Adapter	S
WS-F6700-DFC-3C	3.6.2	Catalyst 6500 Distributed forwarding card 3C	S
WS-F6700-DFC-3CXL	3.6.2	Catalyst 6500 Distributed forwarding card 3C XL	S
4000W-DC	3.6.2	4000W DC PS for 7609/7613Chassis	S
6000W-DC	3.6.2	6000W DC PS	S
MSFC4	3.6.2	Multilayer Switch Feature Card	S
PFC-3C	3.6.2	Policy Feature Card 3C	S
CAT6500FIREWALLSM	3.6.2	Cisco Catalyst 6500 Series Firewall Services Module	S

Table 7-49 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)

Module Name	ANA Version	Module Description	Certification Level
CAT6500SSLSM	3.6.2	Cisco Catalyst 6500 Series SSL Services Module	S
PWR-2700-DC/4	3.6.2	2700W DC Power Supply for Cisco 6504-E	S
WS-X6708-10GE	3.6.3	C6K 8 port 10 Gigabit Ethernet module with DFC	S
WS-CAC-4000W-INT	3.6.3	4000W AC PowerSupply, International (cable included)	S
WS-X6708-10G-3C	3.6.1	C6K 8 port 10 Gigabit Ethernet module with DFC3C (req. X2)	S
WS-C6K-13SLT-FAN2	3.6.0	High Speed Fan Tray for Catalyst 6513 / Cisco 7613	S
WS-SVC-FWM-1	3.6.0	Catalyst 6500 Firewall Module	S
WS-SVC-IDSM-2	3.6.1	Catalyst 6500 Intrusion Detection Module	S
VS-S720-10G-3C	3.6.1	Cisco Catalyst 6500 Series Virtual Switching Supervisor Engine 720 with two 10 Gigabit Ethernet ports and MSFC3 PFC3C	S
VS-S720-10G-3CXL	3.6.1	Cisco Catalyst 6500 Series Virtual Switching Supervisor Engine 720 with two 10 Gigabit Ethernet ports and MSFC3 PFC3C XL	S
ACE20-MOD-K9	3.6.3	Application Control Engine 20 Hardware	S
7600-SSC-400	3.6.3	Cisco 7600 / Catalyst 6500 Services SPA Carrier Card-400 Rev. 2.0	S
PWR-2700-AC/4	3.6.4	2700W AC power supply for Cisco Catalyst 6504-E	S
WS-CAC-3000W	3.6.4	Catalyst 6500 3000W AC power supply	S
WS-C6506-E-FAN	3.6.4	Catalyst 6506 - E chassis fan 1	S
WS-CAC-2500W	3.6.4	Catalyst 6500 2500W AC power supply	S
FAN-MOD-09	3.6.4	Catalyst 6509-NEB-A Fan Tray	S
PWR-4000-DC	3.6.4	Cisco 4000 Watt DC power supply for Catalyst 6000	S
WS-CDC-2500W	3.6.4	Cisco 2500 Watt DC power supply for Catalyst 6000 or 8500 series	S
WS-C6509-NEB-FAN	3.6.4	Catalyst 6509-NEB Fan Tray for 9-Vertical-Slot System	S
RSP720-3CXL	3.6.4	Catalyst 6500 Supervisor Module 720 base board	S
WS-G5486	3.6.4	Long Haul fiber Gigabit Ethernet	S
GLC-LH-SM	3.6.4	Short Wave fiber Gigabit Ethernet	S
SFP-GE-L	3.6.4	1000BASE-LH/LX pluggable transceiver	S
XFP-10GLR-OC192SR	3.6.4	OC192 XFP Single Mode Long Reach 2 (80km).	S
XENPAK-10GB-LR	3.6.4	10 Gigabit Ethernet Serial 1310nm Laser Xenpak Module	S
7600-ES40-G3CXL	3.6.4	7600 ES+ Line Card, 40xGE SFP with DFC 3CXL	S
WS-C6503-E-FAN	3.6.4	Catalyst 6503-E Chassis Fan Tray	S

Table 7-49 **Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6 (Continued)**

Module Name	ANA Version	Module Description	Certification Level
WS-C6506-E-FAN	3.6.4	Catalyst 6506-E Chassis Fan Tray	S
FAN-MOD-09	3.6.4	Fan Module for CISCO7609 and Catalyst WS-C6509-NEB-A	S
WS-C6509-V-E-FAN	3.6.4	Catalyst 6509-V-E Fan Tray	S
WS-C6K-13SLT-FAN2	3.6.4	High Speed Fan Tray for Catalyst 6513 / Cisco 7613	S
X2-10GB-SR	3.6.5	10GBASE-SR Serial 850-nm short-reach multimode (MMF)	S

Cisco Catalyst 6500 Series (IOS)—Supported Technologies

The following technologies are supported by the Cisco Catalyst 6500 Series (IOS) in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Routing Protocols, page 7-51](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [ATM, page 7-55](#)
- [Point to Point, page 7-59](#)
- [Physical Technologies, page 7-60](#)
- [MPLS, page 7-60](#)
- [MPLS-TE, page 7-62](#)
- [VPN, page 7-63](#)
- [PWE3, page 7-64](#)
- [ACL, page 7-65](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)
- [Additional Technologies, page 7-70](#)
- [BFD, page 7-70](#)

Cisco Catalyst 6500 Series (IOS)—Supported Service Events

Table 7-50 *Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Primary HSRP Interface Active/Inactive	3.6.0	N
Secondary HSRP Interface Active/Inactive	3.6.0	N
All IP Interfaces Down / Active IP Interfaces Found	3.6.0	Y
Interface Status Down/Up	3.6.0	Y
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
BGP Neighbor Down	3.6.0	N
Card Up/Down	3.6.0	Y
Adaptive Polling	3.6.0	N
BGP link down	3.6.1	Y
MPLS interface removed	3.6.0	Y

Cisco ME 6500 Series Ethernet Switches (6524)

This section includes the following information about Cisco ME 6500 Series (6524) switches (for information on the NE types supported in Cisco ANA Version 3.6.6, see [Cisco ME 6500 Series Ethernet Switches \(6524\)](#)):

- [Cisco ME 6500 Series \(6524\)—Supported Software Versions](#), page 7-46
- [Cisco ME 6500 Series \(6524\)—Supported Topologies](#), page 7-46
- [Cisco ME 6500 Series \(6524\)—Supported Modules](#), page 7-46
- [Cisco ME 6500 Series \(6524\)—Supported Technologies](#), page 7-47
- [Cisco ME 6500 Series \(6524\)—Supported Service Events](#), page 7-47

Cisco ME 6500 Series (6524)—Supported Software Versions

Table 7-51 *Supported Software Versions for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.6.6*

Software Version	ANA Version	Certification Level
12.2(18)ZU	3.6.0	V
12.2(18)ZU1	3.6.0	V
12.2(18)ZU2	3.6.0	V
12.2(MAGO_ZU_INTEG_061213)	3.6.0	V



Note

Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA Version 3.6.6. Specific software versions that have been tested and verified are listed individually and marked as V.

Cisco ME 6500 Series (6524)—Supported Topologies

Table 7-52 *Supported Topologies for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.6.6*

Topology Type	Link Type	ANA Version
ATM	ATM	3.6.0
BGP	BGP	3.6.0
Ethernet	Ethernet	3.6.0
MPLS	MPLS	3.6.0
VPN (VRF)	VPN	3.6.0
Physical Layer	Physical Layer	3.6.0
IP	IP	3.6.0

Cisco ME 6500 Series (6524)—Supported Modules

Table 7-53 *Supported Modules for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.6.6*

Module Name	ANA Version	Module Description	Certification Level
WS-6148-GE-TX	3.6.0	Catalyst 6000 48 port 10/100/1000BaseT(RJ-45) module	V
WS-6148A-GE-TX	3.6.0	Catalyst 6500 48 port 10/100/1000BaseTX (RJ-45) module	V

Cisco ME 6500 Series (6524)—Supported Technologies

The following technologies are supported by the Cisco ME 6500 Series (6524) in Cisco ANA Version 3.6.6:

- [IP, page 7-49](#)
- [Routing Protocols, page 7-51](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [ATM, page 7-55](#)
- [Frame Relay, page 7-58](#)
- [Point to Point, page 7-59](#)
- [MPLS, page 7-60](#)
- [MPLS-TE, page 7-62](#)
- [VPN, page 7-63](#)
- [PWE3, page 7-64](#)
- [ACL, page 7-65](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)
- [Additional Technologies, page 7-70](#)

Cisco ME 6500 Series (6524)—Supported Service Events

Table 7-54 Supported Service Events for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.6.6

Event Name	ANA Version	Expedited
Primary HSRP Interface Active/Inactive	3.6.0	N
Secondary HSRP Interface Active/Inactive	3.6.0	N
All IP Interfaces Down / Active IP Interfaces Found	3.6.0	Y
Interface Status Down/Up	3.6.0	Y
Card In/Out	3.6.0	Y
Link Down/Up	3.6.0	Y
Device Unreachable	3.6.0	N
CPU Over Utilized	3.6.0	N
Memory Over Utilized	3.6.0	N
Device Unsupported	3.6.0	N
Discard Packets	3.6.0	N

Table 7-54 *Supported Service Events for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.6.6*

Event Name	ANA Version	Expedited
Dropped Packets	3.6.0	N
Module Unsupported	3.6.0	N
Port Flapping	3.6.0	N
Port Down	3.6.0	Y
Rx Over Utilized	3.6.0	N
Tx Over Utilized	3.6.0	N
VPN Leak	3.6.0	N
Cloud Problem	3.6.0	N
Broken LSP Discovered	3.6.0	N
MPLS Black Hole	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
MPLS TE Tunnel Down/Flapping	3.6.0	N
BGP Neighbor Down	3.6.0	N
Card Up/Down	3.6.0	Y

Supported Technologies on Cisco Switches

The following sections list the objects and attributes that are supported on Cisco switches in Cisco ANA Version 3.6.6 per technology:

- [IP, page 7-49](#)
- [Routing Protocols, page 7-51](#)
- [Ethernet \(IEEE 802.3\), page 7-52](#)
- [ATM, page 7-55](#)
- [Frame Relay, page 7-58](#)
- [Point to Point, page 7-59](#)
- [Physical Technologies, page 7-60](#)
- [MPLS, page 7-60](#)
- [MPLS-TE, page 7-62](#)
- [VPN, page 7-63](#)
- [PWE3, page 7-64](#)
- [ACL, page 7-65](#)
- [Physical Equipment, page 7-66](#)
- [Base Logical Components, page 7-67](#)
- [Common, page 7-68](#)
- [Additional Technologies, page 7-70](#)

- [BFD, page 7-70](#)

IP

Table 7-55 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IPIInterface														
IP Address	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
Subnetwork Mask	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IP Interface Addresses Array	Y				Y		Y					Y	Y	Y
Interface Name	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Interface Description					Y		Y	Y					Y	Y
IP Interface State	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
OSPF Interface Cost													Y	
Broadcast Address								Y					Y	
MTU														
Lookup Method														
Address Resolution Type														
ARP Timeout														
Secured ARP														
ICMP Mask Reply														
IGMP Proxy														
HSRP Groups							Y						Y	Y
IP Multiplexing Table														
IANA Type								Y						
Containing CTPs														
Contained CTPs														
IMO Name—IIPMuxEntry														
Termination Point				Y	Y		Y						Y	Y
Destination IP Subnet				Y	Y		Y						Y	Y
IMO Name—IIRoutingEntity														
Routing Table	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
ARP Entity	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
Routing Table Changes														
Name	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
Logical Sons	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y

Table 7-55 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IRoutingEntry														
Destination IP Subnet	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Next Hop IP Address	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Type	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Routing Protocol Type	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Outgoing Interface Name	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
IMO Name—IARPEntity														
ARP Table	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
IMO Name—IARPEntity														
IP Address	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
MAC Address	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Port	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
Entry Type							Y	Y		Y			Y	Y
IMO Name—IIPPool														
IP Address Pool Entries														
Name														
Index														
IMO Name—IIPRangeBasedIPPoolEntry														
Start IP Address														
End IP Address														
Unused Addresses														
Used Addresses														
Reserved Addresses														
IMO Name—IIPSubnetBasedIPPoolEntry														
IP Subnet														
Unused Addresses														
Used Addresses														
Reserved Addresses														
IMO Name—HSRPGGroupEntry														
Group Number							Y		Y ¹	Y ²			Y	Y
Port Description							Y		Y ³	Y ⁴			Y	Y
Priority							Y		Y ⁵	Y ⁶			Y	Y
Coupled Router							Y		Y ⁷	Y ⁸			Y	Y
State							Y		Y ⁹	Y ¹⁰			Y	Y

Table 7-55 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Tracking Interfaces														
Virtual IP Address							Y		Y ¹¹	Y ¹²			Y	Y
Virtual MAC Address							Y		Y ¹³	Y ¹⁴			Y	Y
IMO Name—I Tunnel GRE														
Name							Y		Y ¹⁵	Y ¹⁶			Y	Y
Tunnel Destination and Source							Y		Y ¹⁷	Y ¹⁸			Y	Y
IP Address							Y		Y ¹⁹	Y ²⁰			Y	Y
IP Interface State													Y	
IANA Type														
Containing CTPs														
Contained CTPs														

1, 2, 3, 4, 5, 6, 7, 8, 9, 10Supported for 4503E, 4507RE, and 4507 only

11, 12, 13, 14, 15, 16, 17, 18, 19, 20Validated with 12.2(52)SG only

Routing Protocols

Table 7-56 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IBgpNeighbourEntry														
Remote Identifier							Y		Y ¹	Y ²			Y	Y
Neighbor Type														
Distributing Interfaces														
Remote Address							Y		Y ³	Y ⁴			Y	Y
Remote Autonomous System							Y		Y ⁵	Y ⁶			Y	Y
Status							Y		Y ⁷	Y ⁸			Y	Y
Hold Time							Y		Y ⁹	Y ¹⁰			Y	Y
Keep Alive Time							Y		Y ¹¹	Y ¹²			Y	Y
IMO Name—I OSPF Entry														
Area Identifier		Y					Y		Y ¹³	Y ¹⁴	Y		Y	Y
IP Address		Y					Y		Y ¹⁵	Y ¹⁶	Y		Y	Y

Table 7-56 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Type		Y					Y		Y ¹⁷	Y ¹⁸	Y		Y	Y
Administrative Status		Y					Y		Y ¹⁹	Y ²⁰	Y		Y	Y
Operational Status		Y					Y		Y ²¹	Y ²²	Y		Y	Y

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11Supported for 4503E, 4507RE, and 4507 only

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22Validated with 12.2(52)SG only

Ethernet (IEEE 802.3)

Table 7-57 Ethernet (IEEE 802.3) Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—I LAGPortEntry														
Actor and Partner Admin Keys	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Actor and Partner Oper Keys	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Selected and Attached Aggregation Identification	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Actor Port	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Actor Port Priority	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Partner Admin and Oper Port	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Partner Admin and Oper Port Priority	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Actor and Partner Admin States	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Actor and Partner Oper States	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IMO Name—I Ethernet														
MAC Address	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Duplex Mode														
Output Flow Control														
Input Flow Control														
IANA Type														Y
Containing CTPs														
Contained CTPs														

Table 7-57 Ethernet (IEEE 802.3) Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IVlanInterface														
Mode		Y		Y	Y	Y	Y		Y ¹	Y	Y	Y	Y	Y
Native VLAN Identification		Y		Y	Y	Y	Y		Y ²	Y	Y	Y	Y	Y
Virtual LAN Table														
IANA Type												Y		Y
Containing CTPs														
Contained CTPs														
IMO Name—IVlanEncapMux														
IANA Type						Y	Y							
Containing CTPs														
Contained CTPs														
IMO Name—IIEEE802														
VLAN Identification		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y
Binding Information														
Binding Status														
IANA Type			Y	Y	Y	Y	Y	Y	Y				Y	Y
Containing CTPs														
Contained CTPs														
IMO Name—IStpService														
Protocol Type	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y	
Current and Bridge Max Age	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Current and Bridge Hello Time	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Current and Bridge Forward Delay	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Instance Information Table		Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y
Same as ISystemService		Y								Y	Y			
IMO Name—IMstService														
Protocol Properties														Y
Same as IStpService														Y
IMO Name—IMstProperties														
Force Version	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Configuration Format, Region Name and Revision Level	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
External Root Cost		Y											Y	
Maximum Instances		Y								Y			Y	

Table 7-57 Ethernet (IEEE 802.3) Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IStpInstanceInfo														
Object Identification		Y					Y			Y	Y			
Identification							Y							
Priority		Y					Y			Y	Y		Y	
Designated Parent and Root Bridges	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Root Cost	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is Root	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Root Port Identification	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Port Information Table	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
STP Instance Id	Y	Y	Y		Y	Y	Y	Y	Y			Y		Y
Vlan Id	Y	Y	Y		Y	Y	Y	Y	Y			Y		Y
IMO Name—IMstInstanceInfo														
Instance Identification	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Same as IStpInstanceInfo	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IMO Name—IPvstpInstanceInfo														
Protocol Type	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Current and Bridge Maximum Age	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Current and Bridge Hello Time	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Current and Bridge Forward Delay	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Same as IStpInstanceInfo	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Current and Bridge Maximum Age	Y													
IMO Name—IRstpInstanceInfo														
Force Version	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Same as IStpInstanceInfo	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
IMO Name—IStpPortInfo														
Object Identification	Y		Y	Y	Y	Y	Y	Y	Y			Y		
Priority	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	
State	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	
Path Cost	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	
Is Edge	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	
Is Point to Point	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	

Table 7-57 Ethernet (IEEE 802.3) Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Role	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	
IMO Name—IMstPortInfo														
Hello Time	Y			Y	Y								Y	
Same as IStpPortInfo	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
IMO Name—IEthernetChannel														
Group Number	Y ³	Y	Y	Y ⁴	Y ⁵	Y	Y	Y	Y	Y	Y	Y	Y	Y
Bandwidth	Y ⁶	Y	Y	Y	Y ⁷	Y	Y	Y	Y	Y	Y	Y	Y	Y
Aggregation Protocol	Y ⁸	Y	Y	Y ⁹	Y ¹⁰	Y	Y	Y	Y	Y		Y	Y	Y
IANA Type	Y ¹¹	Y	Y	Y ¹²	Y ¹³	Y	Y	Y	Y	Y		Y	Y	Y
Containing CTPs														
Contained CTPs														
IMO Name—Ethernet (IEEE 802.3)														
Protocol Type														

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11SNMP is supported on ANA 3.6.0 and later.

12, 13Supported for 12.2(25)EWA14 only

ATM

Table 7-58 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IAtm														
ATM Address														
Interface Type														Y
VP and VC Ranges														Y
VC Table													Y	Y
Cross-Connect Table														
IANA Type													Y	Y
Containing CTPs														
Contained CTPs														
IMO Name—IAtmVc														
Virtual Channel Identifier													Y	Y

Table 7-58 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Virtual Path Identifier													Y	Y
Shaping Profile														
Discarded and Received Input Data Counters													Y	Y
Dropped and Forward Output Data Counters													Y	Y
Ingress Traffic Descriptor													Y	Y
Egress Traffic Descriptor													Y	Y
Administrative Status													Y	Y
Operational Status													Y	Y
IANA Type														
Containing CTPs														
Contained CTPs														
IMO Name—IIMAGroup														
Description														
Speed														
Admin Status														
Oper Status														
Oper Status Last Change														
IANA Type														
Containing CTPs														
IMO Name—IATmTrafficDescriptor														
Traffic Descriptor Type													Y	Y
Service Category													Y	Y
Cell Loss Priority													Y	Y
Cell Delay Variation														
Cell Delay Variation Tolerance													Y	
Maximum High Priority and Aggregate Cell Rates													Y	Y
Minimum High Priority and Aggregate Cell Rates													Y	Y
Sustainable High Priority and Aggregate Cell Rates													Y	Y
Peak High Priority and Aggregate Cell Rates													Y	Y
Name														

Table 7-58 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Index														Y
Cell Delay Variation Tolerance	Y													
IMO Name—IAtmTrafficShapingDescriptor														
Maximum Burst Size														
Sustainable and Peak Cell Rates														
Cell Delay Variation														
State														
Buffer Size														
Cell Loss Priority Discarded Size														
Name														
Index														
IMO Name—IAtmTrunk														
Same as IAtm														
IMO Name—IAtmLogicalPort/Trunk														
Resource Management Cell Termination														
Resource Management Cell Generation														
Effective Check Input and Output Capacities														
Admin Status														
Oper Status														
Same as IAtm														
IMO Name—IAtmTrunkVc														
Destination Description														
Same as IAtmVc														

Frame Relay

Table 7-59 *Frame Relay Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6*

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—Iframerelay/IFrTrunk														
Protocol Type														Y
VC Table														Y
Cross-Connect Table														
IANA Type														
Containing CTPs														
Contained CTPs														
IMO Name—IFrVc														
Data Link Connection Identifier														Y
Traffic Descriptor														Y
Discard and Received Input Data Counters														
Dropped and Forward Output Data Counters														
Ingress Traffic Descriptor														
Egress Traffic Descriptor														
Administrative Status														Y
Operational Status														Y
IANA Type														Y
Containing CTPs														
Contained CTPs														
IMO Name—IFRTrafficDescriptor														
Committed Rate														Y
Excess Burst Rate														Y
Name														
Index														
IMO Name—IFramerelayLogicalPort/Trunk														
Admin Status														
Oper Status														
Same as IFrameRelay														
IMO Name—IFrTrunkVc														
Destination Description														

Table 7-59 Frame Relay Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Same as IFRvC														
IMO Name—IEncapsulation														
Virtual Connection Interface												Y		Y
Binding Information														

Point to Point

Table 7-60 Point to Point Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IVcBasedEncapsulation														
Virtual Connection														
Binding Information														
Binding Status												Y		Y
IANA Type												Y		Y
Containing CTPs														
Contained CTPs														
IMO Name—Iencapsulation (HDLC/PPP)														
Virtual Connection														Y
Binding Information													Y	
Binding Status													Y	Y
IANA Type													Y	Y
Containing CTPs														
Contained CTPs														

Physical Technologies

Table 7-61 *Physical Technologies Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6*

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—ISonetSdh														
Specific Type														
Loopback Type													Y	
Scrambling Mode													Y	
Same as IPhysicalLayer														
IMO Name—IDS0Bundle														
Bundled Time Slots													Y	
Bundle Location														
IANA Type													Y	
Containing CTPs														
Contained CTPs														
IMO Name—IDS1Pdh / IDS3Pdh														
Framing Type														
Cell Mapping Type														
Loopback Type													Y	
Scrambling Mode													Y	
Same as IPhysicalLayer														

MPLS

Table 7-62 *MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6*

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IMpls														
Distribution Protocol							Y						Y	Y
Outer and Inner Labels														
Traffic Engineering Properties							Y						Y	Y
Resource reservation Properties														
IANA Type							Y						Y	

Table 7-62 MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Containing CTPs														
Contained CTPs														
IMO Name—ILse														
MPLS Table							Y						Y	Y
MPLS Aggregate Table							Y						Y	Y
MPLS Tunnel Segments							Y							
LDP Service							Y							
Logical Sons							Y						Y	Y
IMO Name—ILdpService														
Local Identification Status							Y							
LDP Peers							Y						Y	Y
IMO Name—ILdpPeer														
Peer Identification							Y						Y	Y
Transport Address							Y						Y	Y
Distribution Method							Y						Y	Y
Protocol Type							Y							
Path Vector Limit							Y						Y	Y
Session Status							Y						Y	Y
Protocol Version Hold Time													Y	Y
Hold Time							Y						Y	Y
Hello Time Interval													Y	Y
Peer Discovery Sources							Y						Y	Y
IMO Name—ILdpDiscoverySource														
Interface Name							Y						Y	Y
Source Address							Y						Y	Y
Type							Y						Y	Y
IMO Name—IMplsEntry														
Incoming Label							Y						Y	Y
Outgoing Interface and Label							Y						Y	Y
Switching Action							Y						Y	Y
Next Hop IP Address							Y						Y	Y
IMO Name—IMplsAggregateEntry														
Virtual Routing Entity							Y						Y	Y
Incoming Label							Y						Y	Y

Table 7-62 MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Outgoing Interface and Label							Y						Y	Y
Switching Action							Y						Y	Y
Next Hop IP Address							Y						Y	Y

MPLS-TE

Table 7-63 MPLS-TE Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IMplsTETunnel														
Destination Address							Y						Y	Y
Outgoing Interface and Label							Y						Y	Y
Path Identification							Y						Y	Y
Requested Bandwidth							Y						Y	Y
Measured Average Burst and Peak Bandwidth							Y						Y	Y
Setup and Hold Priority							Y						Y	Y
Affinity Bits and Mask							Y						Y	Y
Automatic Route Announcement Status							Y						Y	Y
Optimization Lock Down Status							Y						Y	Y
Path Option							Y						Y	Y
Name							Y						Y	Y
Description							Y						Y	Y
Administrative Status							Y						Y	Y
Operational Status							Y						Y	Y
IANA Type							Y						Y	Y
IMO Name—IMplsTEProperties														
Administrative Weight							Y						Y	Y
Attributes Identifier														Y
Signalling Protocol							Y							
Available Physical and Reservable Bandwidth							Y						Y	Y

Table 7-63 MPLS-TE Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Reserved Bandwidth							Y						Y	Y
Signaling Protocol	Y													
IMO Name—IMplsTEPropertiesAllocationEntry														
Priority Level														
Allocated and Cumulative Bandwidth														
IMO Name—IMplsTESegment														
Segment Type							Y						Y	Y
Measured Average Burst and Peak Bandwidth							Y						Y	Y
Path Identification							Y						Y	Y
Name							Y						Y	Y

VPN

Table 7-64 VPN Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IVrf														
Virtual Routing Table							Y							Y
Exported Route Targets							Y							Y
Imported Route Targets							Y							Y
Route Distinguisher							Y						Y	Y
ARP Entity							Y							Y
Name							Y						Y	Y
Logical Sons							Y						Y	Y
IMO Name—IVrfEntry														
Next Hop BGP Address							Y						Y	Y
Incoming and Outgoing Inner Label							Y						Y	Y
Outer Label							Y						Y	Y
Destination IP Subnet							Y						Y	Y
Next Hop IP Address							Y						Y	Y

Table 7-64 VPN Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Type							Y						Y	Y
Routing Protocol Type							Y						Y	Y
Outgoing Interface Name							Y						Y	Y
IMO Name—IMpBgp														
BGP Identifier							Y		Y	Y			Y	Y
Local Autonomous System							Y		Y	Y			Y	Y
Cross Virtual Routing Table							Y							
BGP Neighbors							Y		Y	Y				Y
Logical Sons							Y						Y	Y
IMO Name—ICrossVrf														
Virtual Routing Entries							Y							
Virtual Routing Entity Name							Y							
IMO Name—ICrossVrfRoutingEntry														
Outgoing Virtual Routing Entity Identifier														
Incoming and Outgoing Virtual Routing Tags														
Destination IP Subnet							Y						Y	Y
Next Hop IP Address							Y						Y	Y
Type							Y						Y	Y
Routing Protocol Type							Y						Y	Y
Outgoing Interface Name														

PWE3

Table 7-65 PWE3 Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IPTPLayer2MplsTunnel														
Local and Remote Router Addresses							Y						Y	Y
Local and Remote Virtual Connection Labels							Y						Y	Y

Table 7-65 *PWE3 Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)*

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Tunnel Identification							Y						Y	Y
Tunnel Status							Y						Y	Y
Local and Remote Tunnel Interface														Y
IANA Type							Y						Y	Y
Containing CTPs														
Contained CTPs														

ACL

Table 7-66 *ACL Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6*

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IAccessList														
Type		Y					Y		Y ¹	Y ²	Y		Y	Y
Access List Entries		Y					Y		Y ³	Y ⁴	Y		Y	Y
Name		Y					Y		Y ⁵	Y ⁶	Y		Y	Y
Index		Y					Y		Y ⁷	Y ⁸	Y		Y	Y
IMO Name—IAccessListEntry														
Entry Identification		Y					Y		Y ⁹	Y ¹⁰	Y		Y	Y
Action Logic		Y					Y		Y ¹¹	Y ¹²	Y		Y	Y
Source and Destination Address		Y					Y		Y ¹³	Y ¹⁴	Y		Y	Y
Source and Destination Wildcard		Y					Y		Y ¹⁵	Y ¹⁶	Y		Y	
Protocol Type		Y					Y		Y ¹⁷	Y ¹⁸	Y		Y	Y
Source and Destination Port Ranges		Y					Y		Y ¹⁹	Y ²⁰	Y		Y	Y
Source and Destination Port Action		Y					Y		Y ²¹	Y ²²	Y		Y	Y
Protocol Specific Info		Y					Y		Y ²³	Y ²⁴	Y		Y	Y
Differential Services Code Points		Y					Y		Y ²⁵	Y ²⁶	Y		Y	Y
Type of Service		Y					Y		Y ²⁷	Y ²⁸	Y		Y	Y
Precedence		Y					Y		Y ²⁹	Y ³⁰	Y		Y	Y

Table 7-66 ACL Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Matches		Y					Y		Y ³¹	Y ³²	Y		Y	Y
Source and Destination Wildcard	Y													

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16Supported for 4503E, 4507RE, and 4507 only

17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32Validated with 12.2(52)SG only

Physical Equipment

Table 7-67 Physical Equipment Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IChassis														
Description		Y ¹			Y		Y ²	Y	Y	Y	Y	Y	Y	Y
Equipment Holder Type			Y				Y	Y	Y					Y
Contained Equipment Holders														
Contained Equipments														
Serial Number	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IMO Name—IShelf														
Description														
Status														
Equipment Holder Type														
Contained Equipment Holders														
Contained Equipments														
Serial Number														
IMO Name—IModule														
Module Name	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
Module Description		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
Software Version	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Operational Status	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Hardware Type + Version	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Managed IP Address														
Redundant Equipment														

Table 7-67 Physical Equipment Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Configured Redundancy									Y					
Redundancy Status			Y	Y	Y	Y	Y		Y				Y	Y
Operational Status Last Changed		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y
Supported Physical Termination Points		Y							Y	Y	Y		Y	Y
Serial Number (soft property)	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

^{1,2}Supported for 12.2(50)SE only

Base Logical Components

Table 7-68 Base Logical Components Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IManagedElement														
IP Address	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Communication State	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Investigation State	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y
Element Category	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Element Type and Key	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Device Name	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
System Name	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
System Description	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Up Time	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Software Version	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Vendor Identity	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
Memory and CPU Usage	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
DRAM Free	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
DRAM Used	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
Flash Device Size	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
NVRAM Size	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
Processor DRAM	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y

Table 7-68 Base Logical Components Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Sys Contact	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
Sys Location	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
Serial Number	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y
IMO Name—IContext														
Name				Y	Y		Y							Y
Bounded Connections							¹							
IP Address Pools							²							
Forwarding Components List							³							
Traffic Descriptors List							⁴							
Tunnel Containers List							⁵							
Data Link Aggregation Containers List							⁶							
IMO Name—ISystemService														
Type														
Status														
Up Time	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y

^{1, 2, 3, 4, 5, 6}Not Supported by VNE

Common

Table 7-69 Common Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IPhysicalLayer														
Media Type	Y	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y
Clocking Source													Y	Y
Maximum Speed	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is Internal Port	Y	Y	Y	Y	Y	Y	Y		Y			Y	Y	Y
Discarded Bandwidth														
Dropped Bandwidth														
Input Bandwidth														

Table 7-69 Common Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6 (Continued)

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
Output Bandwidth														
Discarded and Received Input Data Counters	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	Y
Dropped and Forward Output Data Counters	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	Y
Administrative Status	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Operational Status	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Last Changed	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	Y
IANA Type	Y		Y	Y	Y	Y	Y		Y			Y	Y	Y
Containing CTPs							Y							
Contained CTPs														
Port Alias	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y
Location	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y
Sending Alarms	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y
Connector Description	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y
Part ID	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y
Connectort Serial Num	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y
IMO Name—IBridge														
Bridge Table	Y	Y		Y	Y			Y	Y	Y	Y		Y	Y
Type	Y	Y		Y	Y				Y	Y	Y		Y	Y
MAC Address	Y	Y		Y	Y			Y	Y	Y	Y		Y	Y
IP Interface	Y			Y	Y			Y	Y				Y	Y
Name	Y	Y		Y	Y			Y	Y	Y	Y		Y	Y
Logical Sons	Y	Y		Y	Y			Y	Y	Y	Y		Y	Y
IMO Name—IBridgeEntry														
Destination MAC	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y
Outgoing Interface		Y								Y	Y	Y	Y	Y
IMO Name—IVcSwitchingEntity														
Cross Connect Table														
Logical Sons														

Additional Technologies

Table 7-70 Additional Technologies Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—POS														
POS		Y		Y	Y		Y			Y	Y		Y	Y

BFD

Table 7-71 BFD Attribute Support on Cisco Switches—Cisco ANA Version 3.6.6

Attribute	2900	3400ME	3500	3550	3560	3750	ME 3750	4000	4500	4900	4924ME	6500 CatOS	6500 IOS	ME 6524
IMO Name—IBfdService														
Status													Y	
IMO Name—IBfdSession														
SourceIp													Y	
DestinationIp													Y	
Interval													Y	
Multiplier													Y	
Protocol													Y	
State													Y	
Interface													Y	