



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 3.7.2.

This chapter contains the following topics:

- [Cisco Catalyst 1900 Series Switches, page 7-2](#)
- [Cisco Catalyst 2900 Series Switches, page 7-3](#)
- [Cisco ME 3400 Series Ethernet Access Switches, page 7-6](#)
- [Cisco Catalyst 3500 XL Series Switches, page 7-9](#)
- [Cisco Catalyst 3550 Series Switches, page 7-11](#)
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- [Cisco ME 3600X Ethernet Access Switch, page 7-15](#)
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- [Cisco Catalyst 4500 Series Switches, page 7-30](#)
- [Cisco ACE 4700 Series Access Control Engine, page 7-36](#)
- [Cisco Catalyst 4900 Series Switches, page 7-41](#)
- [Cisco ME 4900 Series Ethernet Switch, page 7-49](#)
- [Cisco Catalyst 5000 Series Switches, page 7-54](#)
- [Cisco Catalyst 6500 Series \(CatOS\) Switches, page 7-56](#)
- [Cisco Catalyst 6500 Series \(IOS\) Switches, page 7-60](#)
- [Cisco ME 6500 Series Ethernet Switches \(6524\), page 7-73](#)
- [Cisco Nexus 5000 Series Switches, page 7-75](#)
- [Cisco Nexus 7000 Series Switches, page 7-77](#)
- [Cisco Service Control Engines, page 7-79](#)
- [Supported Technologies on Cisco Switches, page 7-81](#)

Cisco Catalyst 1900 Series Switches

This section includes the following information about Catalyst 1900 switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco Catalyst 1900 Series Switches](#)):

- [Catalyst 1900—Supported Software Versions, page 7-2](#)
- [Catalyst 1900—Supported Topologies, page 7-2](#)
- [Catalyst 1900—Supported Technologies, page 7-2](#)
- [Catalyst 1900—Supported Service Events, page 7-3](#)

Catalyst 1900—Supported Software Versions

Table 7-1 *Supported Software Versions for Catalyst 1900—Cisco ANA Version 3.7.2*

Software Version	ANA Version
CatOS 9.00.04	3.7
CatOS 9.00.06	3.7

Catalyst 1900—Supported Topologies

Table 7-2 *Supported Topologies for Catalyst 1900—Cisco ANA Version 3.7.2*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.7
Physical Layer	Physical Layer	3.7
LAG	LAG	3.7

Catalyst 1900—Supported Technologies

The following technologies are supported by the Catalyst 1900 in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Catalyst 1900—Supported Service Events

Table 7-3 *Supported Service Events for Catalyst 1900—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7	Y
All IP Interfaces Down	3.7	Y
BGP process up	3.7	N
Card Down	3.7	Y
Card In	3.7	Y
Card Out	3.7	Y
Card Up	3.7	Y
CPU utilization exceeded upper threshold	3.7	N
Device Unsupported	3.7	N
Layer 2 Tunnel Down	3.7	N
Link up	3.7	N
Memory utilization exceeded upper threshold	3.7	N
Module Unsupported	3.7	N
MPLS Black Hole found	3.7	N

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 3.7.2, see [Cisco Catalyst 2900 Series Switches](#)):

- [Cisco Catalyst 2900 Series—Supported Software Versions, page 7-4](#)
- [Cisco Catalyst 2900 Series—Supported Topologies, page 7-4](#)
- [Cisco Catalyst 2900 Series—Supported Modules, page 7-4](#)
- [Cisco Catalyst 2900 Series—Supported Technologies, page 7-5](#)
- [Cisco Catalyst 2900 Series—Supported Service Events, page 7-5](#)

Cisco Catalyst 2900 Series—Supported Software Versions

Table 7-4 *Supported Software Versions for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.2*

Software Version	ANA Version
12.0(5)WC17	3.6.2
12.1(22)EA8	3.6.2
12.1(22)EA8a	3.6.2
12.2(25)FX	3.6.0
12.2(25)SEE2	3.7.1
12.2(25)SEE3	3.7.1
CatOS 9.00.04	3.6.0

Cisco Catalyst 2900 Series—Supported Topologies

Table 7-5 *Supported Topologies for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.2*

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

Cisco Catalyst 2900 Series—Supported Modules

Table 7-6 *Supported Modules for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.2*

Module Name	ANA Version	Module Description
WS-C2912-XL	3.6.0	12 fixed autosensing 10/100 ports
WS-C2924M-XL	3.6.0	24 fixed autosensing 10/100 ports 2 expansion slots
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
WS-X2948	3.6.0	Switching Supervisor

Cisco Catalyst 2900 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 2900 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 2900 Series—Supported Service Events

Table 7-7 *Supported Service Events for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black Hole found	3.6.0	N

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 3.7.2, see [Cisco ME 3400 Series Ethernet Access Switches](#)):

- [Cisco ME 3400 Series—Supported Software Versions](#), page 7-6
- [Cisco ME 3400 Series—Supported Topologies](#), page 7-7
- [Cisco ME 3400 Series—Supported Modules](#), page 7-7
- [Cisco ME 3400 Series—Supported Technologies](#), page 7-8
- [Cisco ME 3400 Series—Supported Service Events](#), page 7-8

Cisco ME 3400 Series—Supported Software Versions

Table 7-8 *Supported Software Versions for Cisco ME 3400 Series—Cisco ANA Version 3.7.2*

Software Version	ANA Version
12.2(0.0.48)EY	3.6.5 ¹
12.2(25)SEG	3.6.1
12.2(35)SE	3.6.1 ²
12.2(35)SE1	3.6.1 ³
12.2(35)SE3	3.6.1 ⁴
12.2(35)SE4	3.6.4 ⁵
12.2(37)SE	3.6.3 ⁶
12.2(37)SE1	3.6.4 ⁷
12.2(44)EY	3.6.5 ⁸
12.2(44)EY4	3.6.5 ⁹
12.2(44)SE	3.6.3 ¹⁰
12.2(44)SE1	3.6.4 ¹¹
12.2(46)SE	3.6.4 ¹²
12.2(50)SE	3.6.6 ¹³
12.2(50)SE1	3.7 ¹⁴
12.2(52)SE	3.6.7 ¹⁵
12.2(53)SE	3.7 ¹⁶
12.3(22)S	3.6.1 ¹⁷
12.3(23)	3.6.1 ¹⁸
12.3(23)S1	3.6.1 ¹⁹
12.3(23)S2	3.6.1 ²⁰
12.3(23)S3	3.6.1 ²¹
12.2(54)SE	3.7.1

Table 7-8 Supported Software Versions for Cisco ME 3400 Series—Cisco ANA Version 3.7.2

Software Version	ANA Version
12.2(55)SE	3.7.1.0.4 ²²

1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 17, 18, 19, 20, 21, ²²ANA models pluggable ports for this IOS version.

⁹Tested with modified version of 12.2(44)EY. ANA models pluggable ports for this IOS version.

^{14, 15, 16}ANA recognizes all maintenance builds in this IOS release train. ANA models pluggable ports for this IOS version.

Cisco ME 3400 Series—Supported Topologies

Table 7-9 Supported Topologies for Cisco ME 3400 Series—Cisco ANA Version 3.7.2

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

Cisco ME 3400 Series—Supported Modules

Table 7-10 Supported Modules for Cisco ME 3400 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
GLC-EX-SMD	3.6.7	1000BASE-EX extended SFP transceiver module
GLC-FE-100FX	3.6.7	100BaseFX-SFP module for 100 MB ports, 1310 -nm wavelength ,2 Km over MMF
GLC-FE-100LX	3.6.7	100BaseLX10-SFP module for 100 MB ports, 1310 -nm wavelength ,10 Km over SMF
GLC-LH-SM	3.6.4	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength
GLC-ZX-SM	3.7	Contains a Class 1 laser of 1550 nm for 1000BASE-ZX (extended wavelength) applications
ME340X-PWR-AC	3.6.7	AC power supply and fan module for ME-3400E-24TS-M and ME-3400EG-12CS-M
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
SFP-GE-S	3.6.7	1000BASE-Sx Short wavelength gigabit ethernet SFP.
SFP-GE-Z	3.6.7	1000BASE-Zx Extended reach gigabit ethernet SFP.

Table 7-10 Supported Modules for Cisco ME 3400 Series—Cisco ANA Version 3.7.2 (continued)

Module Name	ANA Version	Module Description
GLC-BX-D	3.7.1	1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength
GLC-BX-U	3.7.1	1000BASE-BX10 SFP module for single-strand SMF, 1310-nm TX/1490-nm RX wavelength

Cisco ME 3400 Series—Supported Technologies

The following technologies are supported by the Cisco ME 3400 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

Cisco ME 3400 Series—Supported Service Events

Table 7-11 Supported Service Events for Cisco ME 3400 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.1	Y
All IP Interfaces Down	3.6.1	Y
Card Down	3.6.1	Y
Card In	3.6.1	Y
Card Out	3.6.1	Y
Card Up	3.6.1	Y
CPU utilization exceeded upper threshold	3.6.1	N
Device Unsupported	3.6.1	N
Link down due to admin down	3.6.1	N
Link down due to oper down	3.6.1	N

Table 7-11 Supported Service Events for Cisco ME 3400 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Link up	3.6.1	N
Memory utilization exceeded upper threshold	3.6.1	N
Module Unsupported	3.6.1	N
MPLS Black Hole found	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 3.7.2, see [Cisco Catalyst 3500 XL Series Switches](#)):

- [Cisco Catalyst 3500 XL Series—Supported Software Versions, page 7-9](#)
- [Cisco Catalyst 3500 XL Series—Supported Topologies, page 7-9](#)
- [Cisco Catalyst 3500 XL Series—Supported Modules, page 7-10](#)
- [Cisco Catalyst 3500 XL Series—Supported Technologies, page 7-10](#)
- [Cisco Catalyst 3500 XL Series—Supported Service Events, page 7-10](#)

Cisco Catalyst 3500 XL Series—Supported Software Versions

Table 7-12 Supported Software Versions for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.2

Software Version	ANA Version
Cat IOS 12.0(5)WC9a	3.6.0

Cisco Catalyst 3500 XL Series—Supported Topologies

Table 7-13 Supported Topologies for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0
LAG	LAG	3.6.2

Cisco Catalyst 3500 XL Series—Supported Modules

Table 7-14 Supported Modules for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.2

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

Cisco Catalyst 3500 XL Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3500 XL Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 3500 XL Series—Supported Service Events

Table 7-15 Supported Service Events for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N

Table 7-15 Supported Service Events for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
MPLS Black Hole found	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

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 3.7.2, see [Cisco Catalyst 3550 Series Switches](#)):

- [Cisco Catalyst 3550 Series—Supported Software Versions, page 7-11](#)
- [Cisco Catalyst 3550 Series—Supported Topologies, page 7-12](#)
- [Cisco Catalyst 3550 Series—Supported Technologies, page 7-12](#)
- [Cisco Catalyst 3550 Series—Supported Service Events, page 7-12](#)

Cisco Catalyst 3550 Series—Supported Software Versions

Table 7-16 Supported Software Versions for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.2

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

Cisco Catalyst 3550 Series—Supported Topologies

Table 7-17 Supported Topologies for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.2

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

Cisco Catalyst 3550 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3550 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 3550 Series—Supported Service Events

Table 7-18 Supported Service Events for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
IMA Operationally down	3.6.0	N
Link down due to admin down	3.6.0	N
Link down due to oper down	3.6.0	N

Table 7-18 Supported Service Events for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
MLPPP Up	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black Hole found	3.6.0	N

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 3.7.2, see [Cisco Catalyst 3560 Series Switches](#)):

- [Cisco Catalyst 3560 Series—Supported Software Versions, page 7-13](#)
- [Cisco Catalyst 3560 Series—Supported Topologies, page 7-14](#)
- [Cisco Catalyst 3560 Series—Supported Modules, page 7-14](#)
- [Cisco Catalyst 3560 Series—Supported Technologies, page 7-14](#)
- [Cisco Catalyst 3560 Series—Supported Service Events, page 7-15](#)

Cisco Catalyst 3560 Series—Supported Software Versions

Table 7-19 Supported Software Versions for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.2

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

Cisco Catalyst 3560 Series—Supported Topologies

Table 7-20 Supported Topologies for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.2

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

Cisco Catalyst 3560 Series—Supported Modules

Table 7-21 Supported Modules for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.2

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

Cisco Catalyst 3560 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3560 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [VPN \(VRF\), page 7-106](#)
- [Hardware, page 7-109](#)

- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 3560 Series—Supported Service Events

Table 7-22 *Supported Service Events for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Keepalive configured	3.6.0	N
Keepalive not configured	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black Hole found	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

Cisco ME 3600X Ethernet Access Switch

This section includes the following information about Cisco ME 3600X switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco ME 3600X Ethernet Access Switch](#)):

- [Cisco ME 3600X—Supported Software Versions, page 7-16](#)
- [Cisco ME 3600X—Supported Topologies, page 7-16](#)

- [Cisco ME 3600X—Supported Modules, page 7-16](#)
- [Cisco ME 3600X—Supported Technologies, page 7-17](#)
- [Cisco ME 3600X—Supported Service Events, page 7-18](#)

Cisco ME 3600X—Supported Software Versions

Table 7-23 Supported Software Versions for Cisco ME 3600X—Cisco ANA Version 3.7.2

Software Version	ANA Version
IOS 12.2(52)EY	3.7.1.0.4

Cisco ME 3600X—Supported Topologies

Table 7-24 Supported Topologies for Cisco ME 3600X—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
BGP	BGP	3.7.1
Ethernet	Ethernet	3.7.1
MPLS	MPLS	3.7.1
LAG	LAG	3.7.1

Cisco ME 3600X—Supported Modules

Table 7-25 Supported Modules for Cisco ME 3600X—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CWDM-SFP-1470	3.7.1	1470nm color coded CWDM SFP
CWDM-SFP-1490	3.7.1	1490nm color coded CWDM SFP
CWDM-SFP-1510	3.7.1	1510nm color coded CWDM SFP
CWDM-SFP-1530	3.7.1	1530nm color coded CWDM SFP
CWDM-SFP-1550	3.7.1	1550nm color coded CWDM SFP
CWDM-SFP-1570	3.7.1	1570nm color coded CWDM SFP
CWDM-SFP-1590	3.7.1	1590nm color coded CWDM SFP
CWDM-SFP-1610	3.7.1	1610nm color coded CWDM SFP
GLC-BX-D	3.7.1	1000BASE-BX10-D downstream bidirectional single fiber SFP
GLC-BX-U	3.7.1	1000BASE-BX10-U upstream bidirectional single fiber SFP

Table 7-25 **Supported Modules for Cisco ME 3600X—Cisco ANA Version 3.7.2 (continued)**

Module Name	ANA Version	Module Description
GLC-FE-100BX-D	3.7.1	Fiber Fast Ethernet bi-directional 10km Downlink over SMF
GLC-FE-100BX-U	3.7.1	Fiber Fast Ethernet bi-directional 10km Uplink over SMF
GLC-FE-100EX	3.7.1	100 BaseEX Fiber Fast Ethernet
GLC-FE-100FX	3.7.1	Short Wave Fiber Fast Ethernet
GLC-FE-100LX	3.7.1	Long Wave Fiber Fast Ethernet 10km over SMF
GLC-LH-SM	3.7.1	Longwavelength gigabit ethernet SFP
GLC-SX-MM	3.7.1	Shortwavelength gigabit ethernet SFP
GLC-T	3.7.1	Copper gigabit ethernet SFP
GLC-ZX-SM	3.7.1	Extended reach gigabit ethernet
ME-FANTRAY	3.7.1	Metro Ethernet 3600X/3800X Fan Tray
PWR-390W-AC	3.7.1	Metro Ethernet 3600X/3800X AC power supply
PWR-390W-DC	3.7.1	Metro Ethernet 3600X/3800X DC power supply
SFP-10G-LR	3.7.1	10Gigabit XFP Multi Mode Long Reach
SFP-10G-LRM	3.7.1	10GBASE-LRM SFP+ transceiver module for MMF and SMF, 1310-nm wavelength, LC duplex connector
SFP-10G-SR	3.7.1	10Gigabit XFP Multi Mode Short Reach
SFP-GE-L	3.7.1	1000BASE-LH/LX pluggable transceiver
SFP-GE-S	3.7.1	1000BASE-Sx Short wavelength gigabit ethernet SFP.

Cisco ME 3600X—Supported Technologies

The following technologies are supported by the Cisco ME 3600X in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [MPLS, page 7-103](#)
- [MPLS-TE, page 7-104](#)
- [VPN \(VRF\), page 7-106](#)
- [PWE3, page 7-107](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [BFD, page 7-113](#)
- [Carrier Ethernet, page 7-114](#)

- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

Cisco ME 3600X—Supported Service Events

Table 7-26 *Supported Service Events for Cisco ME 3600X—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.1	Y
All IP Interfaces Down	3.7.1	Y
BGP process up	3.7.1	N
Card Down	3.7.1	Y
Card In	3.7.1	Y
Card Out	3.7.1	Y
Card Up	3.7.1	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.7.1	N
Keepalive configured	3.7.1	N
Keepalive not configured	3.7.1	N
Layer 2 Tunnel Down	3.7.1	N
Link up	3.7.1	N
Memory utilization exceeded upper threshold	3.7.1	N
Module Unsupported	3.7.1	N
MPLS Black Hole found	3.7.1	N

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 3.7.2, see [Cisco Catalyst 3750 Series Switches](#)):

- [Cisco 3750 Series—Supported Software Versions, page 7-19](#)
- [Cisco 3750 Series—Supported Topologies, page 7-19](#)
- [Cisco 3750 Series—Supported Technologies, page 7-19](#)
- [Cisco 3750 Series—Supported Service Events, page 7-19](#)

Cisco 3750 Series—Supported Software Versions

Table 7-27 Supported Software Versions for Cisco 3750 Series—Cisco ANA Version 3.7.2

Software Version	ANA Version
12.2(25)EY3	3.6.0
12.2(25)SEC2	3.6.2
12.2(52)SE	3.6.7
12.2(50)SE	3.6.7

Cisco 3750 Series—Supported Topologies

Table 7-28 Supported Topologies for Cisco 3750 Series—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0
LAG	LAG	3.6.2

Cisco 3750 Series—Supported Technologies

The following technologies are supported by the Cisco 3750 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco 3750 Series—Supported Service Events

Table 7-29 Supported Service Events for Cisco 3750 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N

Table 7-29 Supported Service Events for Cisco 3750 Series—Cisco ANA Version 3.7.2 (continued)

Event Name	ANA Version	Expedited
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black Hole found	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

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 3.7.2, see [Cisco Catalyst 3750 Metro Series Switches](#)):

- [Cisco Catalyst 3750 Metro Series—Supported Software Versions, page 7-20](#)
- [Cisco Catalyst 3750 Metro Series—Supported Topologies, page 7-21](#)
- [Cisco Catalyst 3750 Metro Series—Supported Modules, page 7-22](#)
- [Cisco Catalyst 3750 Metro Series—Supported Technologies, page 7-22](#)
- [Cisco Catalyst 3750 Metro Series—Supported Service Events, page 7-23](#)

Cisco Catalyst 3750 Metro Series—Supported Software Versions

Table 7-30 Supported Software Versions for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.2

Software Version	ANA Version
12.2(25)EY*	3.6.3 ¹
12.2(25)EY3	3.6.3 ²

Table 7-30 *Supported Software Versions for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.2 (continued)*

Software Version	ANA Version
12.2(25)SEB4	3.6.3 ³
12.2(25)SEG1	3.6.3 ⁴
12.2(35)SE	3.6.3 ⁵
12.2(37)SE*	3.6.3 ⁶
12.2(37)SE1	3.6.3 ⁷
12.2(40)SE	3.6.3 ⁸
12.2(44)SE1	3.6.3 ⁹
12.2(46)SE	3.6.4 ¹⁰
12.2(50)SE	3.6.6 ¹¹
12.2(52)SE	3.6.7 ¹²
12.2(53)SE	3.7 ¹³
12.2(54)SE	3.7.1 ¹⁴
12.2(55)SE	3.7.1.0.4 ¹⁵

1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ANA models pluggable ports for this IOS version.

11, 12, 13, 14, 15 ANA recognizes all maintenance builds in this IOS release train. ANA models pluggable ports for this IOS version.

Cisco Catalyst 3750 Metro Series—Supported Topologies

Table 7-31 *Supported Topologies for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.2*

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
LAG	LAG	3.6.3

Cisco Catalyst 3750 Metro Series—Supported Modules

Table 7-32 *Supported Modules for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.2*

Module Name	ANA Version	Module Description
CATALYST375024ME	3.6.0	Metro Ethernet Catalyst 3750 Module. 24-10/100 + 2 SFP (Small Formfactor Pluggable) ports for downlinks

Table 7-32 **Supported Modules for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.2**

Module Name	ANA Version	Module Description
GLC-EX-SMD	3.6.7	1000BASE-EX extended SFP transceiver module
GLC-LH-SM	3.6.5	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength
ME-C3750-24TE-FAN 0	3.7	Fan Module for ME-C3750-24TE
PWR-ME3750-AC	3.7	Primary AC power supply
PWR-ME3750-DC	3.7	Primary DC power supply
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

Cisco Catalyst 3750 Metro Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3750 Metro Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [MPLS, page 7-103](#)
- [MPLS-TE, page 7-104](#)
- [VPN \(VRF\), page 7-106](#)
- [PWE3, page 7-107](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [LocalSwitching, page 7-112](#)
- [BFD, page 7-113](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

Cisco Catalyst 3750 Metro Series—Supported Service Events

Table 7-33 *Supported Service Events for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Keepalive configured	3.7	N
Keepalive not configured	3.7	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black Hole found	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

Cisco ME 3800X Carrier Ethernet Switches

This section includes the following information about Cisco ME 3800X switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco ME 3800X Carrier Ethernet Switches](#)):

- [Cisco ME 3800X—Supported Software Versions](#), page 7-24
- [Cisco ME 3800X—Supported Topologies](#), page 7-24
- [Cisco ME 3800X—Supported Modules](#), page 7-24
- [Cisco ME 3800X—Supported Technologies](#), page 7-25
- [Cisco ME 3800X—Supported Service Events](#), page 7-26

Cisco ME 3800X—Supported Software Versions

Table 7-34 Supported Software Versions for Cisco ME 3800X—Cisco ANA Version 3.7.2

Software Version	ANA Version
IOS 12.2(52)EY	3.7.1.0.4

Cisco ME 3800X—Supported Topologies

Table 7-35 Supported Topologies for Cisco ME 3800X—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
BGP	BGP	3.7.1
Ethernet	Ethernet	3.7.1
MPLS	MPLS	3.7.1
LAG	LAG	3.7.1

Cisco ME 3800X—Supported Modules

Table 7-36 Supported Modules for Cisco ME 3800X—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CWDM-SFP-1470	3.7.1	1470nm color coded CWDM SFP
CWDM-SFP-1490	3.7.1	1490nm color coded CWDM SFP
CWDM-SFP-1510	3.7.1	1510nm color coded CWDM SFP
CWDM-SFP-1530	3.7.1	1530nm color coded CWDM SFP
CWDM-SFP-1550	3.7.1	1550nm color coded CWDM SFP
CWDM-SFP-1570	3.7.1	1570nm color coded CWDM SFP
CWDM-SFP-1590	3.7.1	1590nm color coded CWDM SFP
CWDM-SFP-1610	3.7.1	1610nm color coded CWDM SFP
GLC-BX-D	3.7.1	1000BASE-BX10-D downstream bidirectional single fiber SFP
GLC-BX-U	3.7.1	1000BASE-BX10-U upstream bidirectional single fiber SFP
GLC-FE-100BX-D	3.7.1	Fiber Fast Ethernet bi-directional 10km Downlink over SMF
GLC-FE-100BX-U	3.7.1	Fiber Fast Ethernet bi-directional 10km Uplink over SMF
GLC-FE-100EX	3.7.1	100 BaseEX Fiber Fast Ethernet

Table 7-36 **Supported Modules for Cisco ME 3800X—Cisco ANA Version 3.7.2 (continued)**

Module Name	ANA Version	Module Description
GLC-FE-100FX	3.7.1	Short Wave Fiber Fast Ethernet
GLC-FE-100LX	3.7.1	Long Wave Fiber Fast Ethernet 10km over SMF
GLC-LH-SM	3.7.1	Longwavelength gigabit ethernet SFP
GLC-SX-MM	3.7.1	Shortwavelength gigabit ethernet SFP
GLC-T	3.7.1	Copper gigabit ethernet SFP
GLC-ZX-SM	3.7.1	Extended reach gigabit ethernet
ME-FANTRAY	3.7.1	Metro Ethernet 3600X/3800X Fan Tray
PWR-390W-AC	3.7.1	Metro Ethernet 3600X/3800X AC power supply
PWR-390W-DC	3.7.1	Metro Ethernet 3600X/3800X DC power supply
SFP-10G-LR	3.7.1	10Gigabit XFP Multi Mode Long Reach
SFP-10G-LRM	3.7.1	10GBASE-LRM SFP+ transceiver module for MMF and SMF, 1310-nm wavelength, LC duplex connector
SFP-10G-SR	3.7.1	10Gigabit XFP Multi Mode Short Reach
SFP-GE-L	3.7.1	1000BASE-LH/LX pluggable transceiver
SFP-GE-S	3.7.1	1000BASE-Sx Short wavelength gigabit ethernet SFP.

Cisco ME 3800X—Supported Technologies

The following technologies are supported by the Cisco ME 3800X in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [MPLS, page 7-103](#)
- [MPLS-TE, page 7-104](#)
- [VPN \(VRF\), page 7-106](#)
- [PWE3, page 7-107](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [BFD, page 7-113](#)
- [Carrier Ethernet, page 7-114](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

Cisco ME 3800X—Supported Service Events

Table 7-37 *Supported Service Events for Cisco ME 3800X—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.1	Y
All IP Interfaces Down	3.7.1	Y
BGP process up	3.7.1	N
Card Down	3.7.1	Y
Card In	3.7.1	Y
Card Out	3.7.1	Y
Card Up	3.7.1	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.7.1	N
Keepalive configured	3.7.1	N
Keepalive not configured	3.7.1	N
Layer 2 Tunnel Down	3.7.1	N
Link up	3.7.1	N
Memory utilization exceeded upper threshold	3.7.1	N
Module Unsupported	3.7.1	N
MPLS Black Hole found	3.7.1	N

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 3.7.2, see [Cisco Catalyst 4000 Series Switches](#)):

- [Cisco Catalyst 4000 Series—Supported Software Versions, page 7-27](#)
- [Cisco Catalyst 4000 Series—Supported Topologies, page 7-27](#)
- [Cisco Catalyst 4000 Series—Supported Modules, page 7-27](#)
- [Cisco Catalyst 4000 Series—Supported Technologies, page 7-29](#)
- [Cisco Catalyst 4000 Series—Supported Service Events, page 7-29](#)

Cisco Catalyst 4000 Series—Supported Software Versions

Table 7-38 *Supported Software Versions for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.2*

Software Version	ANA Version
IOS 12.1(12c)EW1	3.6.0 ¹
IOS 12.2(20)EWA1	3.6.0 ²
IOS 12.2(25)SG	3.6.0 ³
IOS 12.2(31)SGA2	3.6.2 ⁴
IOS 12.2(50)SG1	3.6.7 ⁵
IOS 12.2(52)SG	3.6.7 ⁶
IOS 12.2(53)SG	3.7 ⁷

^{1, 2, 3, 4}ANA models pluggable ports for this IOS version.

^{5, 6, 7}ANA recognizes all maintenance builds in this IOS release train. ANA models pluggable ports for this IOS version.

Cisco Catalyst 4000 Series—Supported Topologies

Table 7-39 *Supported Topologies for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.2*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0
LAG	LAG	3.6.2

Cisco Catalyst 4000 Series—Supported Modules

Table 7-40 *Supported Modules for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.2*

Module Name	ANA Version	Module Description
CWDM-SFP-1470	3.6.0	CWDM SFP 1470 nm, Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1490	3.6.0	CWDM SFP 1490 nm, Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1510	3.6.0	CWDM SFP 1510 nm, Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1530	3.6.0	CWDM SFP 1530 nm, Gigabit Ethernet and 1G/2G FC

Table 7-40 Supported Modules for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CWDM-SFP-1550	3.6.0	CWDM SFP 1550 nm, Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1570	3.6.0	CWDM SFP 1570 nm, Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1590	3.6.0	CWDM SFP 1590 nm, Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1610	3.6.0	CWDM SFP 1610 nm, Gigabit Ethernet and 1G/2G FC
WS-U4504-FX-MT	3.6.0	FE Uplink Daughter Card, 4-port 100FX (MTRJ)
WS-X4014	3.6.0	Catalyst 4006 Supervisor 3, Spare
WS-X4124-FX-MT	3.6.0	FE Switching Module, 24-port 100FX (MTRJ)
WS-X4148-FX-MT	3.6.0	FE Switching Module, 48-100FX MMF (MTRJ)
WS-X4148-RJ	3.6.0	10/100 Fast Ethernet Module, 48 Ports (RJ-45)
WS-X4148-RJ21	3.6.0	Telco switch module, 48-port 10/100 (4xRJ21)
WS-X4148-RJ45V	3.6.0	Inline Power 10/100, 48-port (RJ45)
WS-X4232-GB-RJ	3.6.0	E/FE/GE Module, 2-GE (GBIC), 32-10/100 FE (RJ-45)
WS-X4232-RJ-XX	3.6.0	FE Base Module, 32-10/100(RJ45)+ Modular Uplink slot
WS-X4248-RJ21V	3.6.0	48-port PoE 10/100 BASE-TX switching module
WS-X4248-RJ45V	3.6.0	48-port PoE 10/100BASE-TX switching module
WS-X4302-GB	3.6.0	2-port 1000BASE-X (GBIC) Gigabit Ethernet
WS-X4306-GB	3.6.0	Gigabit Ethernet Module, 6 Ports (GBIC)
WS-X4412-2GB-T	3.6.0	GE Module, 12-1000T (RJ45)+2-1000X (GBIC Slot)
WS-X4418-GB	3.6.0	GE Module, Server Switching 18 Ports (GBIC)
WS-X4424-GB-RJ45	3.6.0	24-port 10/100/1000BASE-T Gigabit Ethernet switching module
WS-X4424-GB-RJ-45	3.6.0	24 port 10/100/1000 Auto-Sensing Module (RJ45)
WS-X4448-GB-LX	3.6.0	48-port 1000BASE-LX (SFP included) Gigabit Ethernet switching module
WS-X4448-GB-RJ45	3.6.0	48 port 10/100/1000 Auto-Sensing Module (RJ45)
WS-X4548-GB-RJ45	3.6.0	48-port Gigabit Ethernet 10/100/1000BASE-T switching module
WS-X4548-GB-RJ45V	3.6.0	48-port PoE 10/100/1000BASE-T switching module

Cisco Catalyst 4000 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4000 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 4000 Series—Supported Service Events

Table 7-41 Supported Service Events for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Keepalive configured	3.6.0	N
Keepalive not configured	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black Hole found	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

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 3.7.2, see [Cisco Catalyst 4500 Series Switches](#)):

- [Cisco Catalyst 4500 Series—Supported Software Versions](#), page 7-30
- [Cisco Catalyst 4500 Series—Supported Topologies](#), page 7-31
- [Cisco Catalyst 4500 Series—Supported Modules](#), page 7-31
- [Cisco Catalyst 4500 Series—Supported Technologies](#), page 7-35
- [Cisco Catalyst 4500 Series—Supported Service Events](#), page 7-36

Cisco Catalyst 4500 Series—Supported Software Versions

Table 7-42 *Supported Software Versions for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2*

Software Version	ANA Version
12.1(13)EW	3.6.0
12.2(20)EWA	3.6.0 ¹
12.2(25)EWA14	3.6.6 ²
12.2(31)SGA2	3.6.2 ³
12.2(50)SG1	3.6.7 ⁴
12.2(52)SG	3.6.6 ⁵
12.2(52)XO	3.6.7 ⁶
12.2(53)SG	3.7 ⁷
12.1(12c)EW1	3.6.0 ⁸
12.2(20)EWA1	3.6.0 ⁹
12.2(25)SG	3.6.0 ¹⁰
12.2(54)SG	3.7.1
12.2(53)SG1	3.7.1
12.2(53)SG2	3.7.1

^{1, 2, 3, 6, 8, 9, 10}ANA models pluggable ports for this IOS version.

^{4, 5, 7}ANA recognizes all maintenance builds in this IOS release train. ANA models pluggable ports for this IOS version.

Cisco Catalyst 4500 Series—Supported Topologies

Table 7-43 Supported Topologies for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Framerelay	Framerelay	3.6.0
Physical Layer	Physical Layer	3.6.0
LAG	LAG	3.6.2

Cisco Catalyst 4500 Series—Supported Modules

Table 7-44 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CWDM-SFP-1550	3.7	CWDM 1550 NM SFP Gigabit Ethernet and 1G/2G FC
DWDM-X2-30.33=	3.7	10GBASE-DWDM 1530.33 nm X2 (100-GHz ITU grid)
DWDM-X2-31.12=	3.7	10GBASE-DWDM 1531.12 nm X2 (100-GHz ITU grid)
DWDM-X2-31.90=	3.7	10GBASE-DWDM 1531.90 nm X2 (100-GHz ITU grid)
DWDM-X2-32.68=	3.7	10GBASE-DWDM 1532.68 nm X2 (100-GHz ITU grid)
DWDM-X2-34.25=	3.7	10GBASE-DWDM 1534.25 nm X2 (100-GHz ITU grid)
DWDM-X2-35.04=	3.7	10GBASE-DWDM 1535.04 nm X2 (100-GHz ITU grid)
DWDM-X2-35.82=	3.7	10GBASE-DWDM 1535.82 nm X2 (100-GHz ITU grid)
DWDM-X2-36.61=	3.7	10GBASE-DWDM 1536.61 nm X2 (100-GHz ITU grid)
DWDM-X2-38.19=	3.7	10GBASE-DWDM 1538.19 nm X2 (100-GHz ITU grid)
DWDM-X2-38.98=	3.7	10GBASE-DWDM 1538.98 nm X2 (100-GHz ITU grid)
DWDM-X2-39.77=	3.7	10GBASE-DWDM 1539.77 nm X2 (100-GHz ITU grid)
DWDM-X2-40.56=	3.7	10GBASE-DWDM 1540.56 nm X2 (100-GHz ITU grid)

Table 7-44 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
DWDM-X2-42.14=	3.7	10GBASE-DWDM 1542.14 nm X2 (100-GHz ITU grid)
DWDM-X2-42.94=	3.7	10GBASE-DWDM 1542.94 nm X2 (100-GHz ITU grid)
DWDM-X2-43.73=	3.7	10GBASE-DWDM 1543.73 nm X2 (100-GHz ITU grid)
DWDM-X2-44.53=	3.7	10GBASE-DWDM 1544.53 nm X2 (100-GHz ITU grid)
DWDM-X2-46.12=	3.7	10GBASE-DWDM 1546.12 nm X2 (100-GHz ITU grid)
DWDM-X2-46.92=	3.7	10GBASE-DWDM 1546.92 nm X2 (100-GHz ITU grid)
DWDM-X2-47.72=	3.7	10GBASE-DWDM 1547.72 nm X2 (100-GHz ITU grid)
DWDM-X2-48.51=	3.7	10GBASE-DWDM 1548.51 nm X2 (100-GHz ITU grid)
DWDM-X2-50.12=	3.7	10GBASE-DWDM 1550.12 nm X2 (100-GHz ITU grid)
DWDM-X2-50.92=	3.7	10GBASE-DWDM 1550.92 nm X2 (100-GHz ITU grid)
DWDM-X2-51.72=	3.7	10GBASE-DWDM 1551.72 nm X2 (100-GHz ITU grid)
DWDM-X2-52.52=	3.7	10GBASE-DWDM 1552.52 nm X2 (100-GHz ITU grid)
DWDM-X2-54.13=	3.7	10GBASE-DWDM 1554.13 nm X2 (100-GHz ITU grid)
DWDM-X2-54.94=	3.7	10GBASE-DWDM 1554.94 nm X2 (100-GHz ITU grid)
DWDM-X2-55.75=	3.7	10GBASE-DWDM 1555.75 nm X2 (100-GHz ITU grid)
DWDM-X2-56.55=	3.7	10GBASE-DWDM 1556.55 nm X2 (100-GHz ITU grid)
DWDM-X2-58.17=	3.7	10GBASE-DWDM 1558.17 nm X2 (100-GHz ITU grid)
DWDM-X2-58.98=	3.7	10GBASE-DWDM 1558.98 nm X2 (100-GHz ITU grid)
DWDM-X2-59.79=	3.7	10GBASE-DWDM 1559.79 nm X2 (100-GHz ITU grid)
DWDM-X2-60.61=	3.7	10GBASE-DWDM 1560.61 nm X2 (100-GHz ITU grid)

Table 7-44 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
GLC-BX-D	3.7	1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength.
GLC-BX-U	3.7	1000BASE-BX10 SFP module for single-strand SMF, 1310-nm TX/1490-nm RX wavelength, single LC/PC connector
GLC-FE-100BX-D	3.7	1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength, single LC/PC connector
GLC-FE-100BX-U	3.7	100BASE-BX10-U SFP
GLC-FE-100FX	3.7	100BASE-FX SFP for FE port
GLC-FE-100LX	3.7	100BASE-LX SFP for FE port
GLC-FE-100ZX	3.7	100BASE-ZX SFP module for 100-MB ports, and 1550 nm wavelength, 80 km over SMF.
GLC-LH-SM	3.6.7	Transceiver module - SFP - Gigabit EN - 1000Base-LX, 1000Base-LH - 1300 nm
GLC-SX-MM	3.7	Transceiver module - SFP - Gigabit EN - 1000Base-SX - 850 nm
GLC-ZX-SM	3.6.7	1000BASE-ZX SFP
PWR-C45-1300ACV	3.6.4	Cisco Catalyst 4500 Series 1300W AC power supply (with integrated PoE)
PWR-C45-1400DC	3.6.7	Cisco Catalyst 4500 Series triple input 1400W DC power supply (data only)
PWR-C45-1400DC-P	3.7	Cisco Catalyst 4500 Series 1400W DC power supply with integrated power entry module (PEM)
PWR-C45-2800ACV	3.6.7	Cisco Catalyst 4500 Series 2800W AC power supply (with integrated PoE)
WS-G5483	3.7	Cisco Catalyst 4500 1400 WDC Power Supply with PEM (PoE)
WS-U4504-FX-MT	3.6.0	FE Uplink Daughter Card, 4-port 100FX (MTRJ)
WS-X4013+	3.6.0	Cisco Catalyst 4500 Series Supervisor Engine II-Plus
WS-X4013+10GE	3.7	Cisco Catalyst 4500 Series Supervisor Engine II-Plus-10GE
WS-X4013+TS	3.6.0	Cisco Catalyst 4500 Series Supervisor Engine II-Plus-TS, twelve 10/100/1000 PoE (RJ-45) and eight 1000-X SFP ports included on supervisor-engine faceplate
WS-X4014	3.6.0	Catalyst 4500 Supervisor II-Plus (IOS), 2GE, Console(RJ-45)
WS-X4124-FX-MT	3.6.0	FE Switching Module, 24-port 100FX (MTRJ)
WS-X4124-RJ45	3.6.0	Supervisor Engine III

Table 7-44 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
WS-X4148-FE-BD-LC	3.6.0	24-Port 100BASE-FX Fast Ethernet Switching Module
WS-X4148-FE-LX-MT	3.6.0	24-Port 10/100BASE-TX Fast Ethernet Switching Module
WS-X4148-FX-MT	3.6.0	FE Switching Module, 48-100FX MMF (MTRJ)
WS-X4148-RJ	3.6.0	Cisco Catalyst 4500 10/100 Auto Module, 48-Port (RJ-45)
WS-X4148-RJ21	3.6.0	Telco switch module, 48-port 10/100 (4xRJ21)
WS-X4148-RJ45V	3.6.0	Inline Power 10/100, 48-port (RJ45)
WS-X4224-RJ45V	3.6.0	Catalyst 4500 10/100 Module, 48-Ports Telco (4xRJ21)
WS-X4232-GB-RJ	3.6.0	10/100BASE-TX Fast Ethernet switching module with Cisco pre-standard PoE
WS-X4232-L3	3.6.0	Catalyst 4500 10/100 PoE 802.3af 24-ports (RJ45)
WS-X4232-RJ-XX	3.6.0	Catalyst 4500 32-10/100 (RJ-45),2-GE(GBIC)
WS-X4248-FE-SFP	3.6.0	Layer 3 Services Module
WS-X4248-RJ21V	3.6.0	Catalyst 4500 10/100 Module,32-ports(RJ45)+Modular uplinks
WS-X4248-RJ45V	3.6.0	Catalyst 4500 48-Port 100BASE-X (SFPs Optional)
WS-X4302-GB	3.6.0	Catalyst 4500 PoE 802.3af 10/100, 48-Ports (RJ21)
WS-X4306-GB	3.6.0	Catalyst 4500 PoE 802.3af 10/100, 48-Ports (RJ45)
WS-X4412-2GB-T	3.6.0	Catalyst 4500 Gigabit Ethernet Module, 2-Ports (GBIC)
WS-X4418-GB	3.6.0	Catalyst 4500 Gigabit Ethernet Module, 6-Ports (GBIC)
WS-X4424-GB-RJ45	3.6.0	1000BASE-T plus 1000BASE-X Gigabit Ethernet switching module
WS-X4448-GB-LX	3.6.0	Catalyst 4500 GE Module, Server Switching 18-Ports (GBIC)
WS-X4448-GB-RJ45	3.6.0	Catalyst 4500 24-port 10/100/1000 Module (RJ45)
WS-X4448-GB-SFP	3.6.0	1000BASE-X Gigabit Ethernet switching module
WS-X4506-GB-T	3.6.0	Catalyst 4500 48-Port 10/100/1000 Module (RJ45)
WS-X4515	3.6.0	Catalyst 4500 48-Port 1000Base-X (SFPs Optional)
WS-X4516	3.6.0	Catalyst 4500 6-Port 10/100/1000 PoE or SFP (Optional)
WS-X4516-10GE	3.6.0	Catalyst 4500 Supervisor IV (2 GE),Console(RJ-45)
WS-X4524-GB-RJ45V	3.6.0	Catalyst 4500 Supervisor V (2 GE),Console(RJ-45)
WS-X4548-GB-RJ45	3.6.0	Catalyst 4500 Supervisor V-10GE, 2x10GE (X2) and 4x1GE (SFP)

Table 7-44 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
WS-X4548-GB-RJ45V	3.6.0	Catalyst 4500 PoE 802.3af 10/ 100/1000 24-ports (RJ45)
WS-X45-SUP6-E	3.6.7	Catalyst 4500 Enhanced 48-Port 10/100/1000 Base-T (RJ-45)
WS-X45-SUP6L-E	3.6.7	Catalyst 4500 PoE 802.3af 10/100/1000, 48-Ports (RJ45)
WS-X4604-GWY	3.6.0	Catalyst 4000 Access Gateway Module
WS-X4606-X2-E	3.6.7	Cisco 4506 Power supply module
WS-X4624-SFP-E	3.6.7	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength
WS-X4648-RJ45V+E	3.7	Cisco Catalyst 4500 E-Series 48-Port 802.3af PoE and PoEP-ready 10/100/1000 (RJ-45)
WS-X4648-RJ45V-E	3.7	Cisco Catalyst 4500 E-Series 48-port 802.3af PoE 10/100/1000 (RJ-45)
X2-10GB-CX4	3.7	10 Gigabit Ethernet X2 with Copper Wire (Data and PoE)
X2-10GB-ER	3.6.7	Catalyst 4500 E-Series Sup 6-E, 2x10GE(X2) w/Twin Gig
X2-10GB-LR	3.6.7	Catalyst 4500 E-Series Sup 6L-E, 2x10GE(X2) w/Twin Gig
X2-10GB-LRM	3.7	10GBASE-LRM X2 transceiver module for MMF, 1310-nm wavelength, SC duplex connector
X2-10GB-LX4	3.7	10GBASE-LX4 X2 transceiver module for MMF, 1310-nm wavelength, SC duplex connector
X2-10GB-SR	3.7	10GBASE-ER X2 transceiver module for SMF, 1550-nm wavelength, SC duplex connector
X2-10GB-ZR	3.7	10GBASE-LR Serial 1310-nm long-reach, single-mode fiber (SMF), dispersion-shifted fiber (DSF)
WS-X4597-E	3.7	Catalyst 4507R-E Fan Tray

Cisco Catalyst 4500 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4500 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [VPN \(VRF\), page 7-106](#)
- [Security, page 7-108](#)

- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 4500 Series—Supported Service Events

Table 7-45 *Supported Service Events for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Dropped packet rate exceeded upper threshold	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N

Cisco ACE 4700 Series Access Control Engine

This section includes the following information about Cisco ACE 4700 switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco ACE 4700 Series Access Control Engine](#)):

- [Cisco ACE 4700—Supported Software Versions, page 7-37](#)
- [Cisco ACE 4700—Supported Topologies, page 7-37](#)
- [Cisco ACE 4700—Supported Technologies, page 7-37](#)
- [Cisco ACE 4700—Supported Service Events, page 7-37](#)

Cisco ACE 4700—Supported Software Versions

Table 7-46 Supported Software Versions for Cisco ACE 4700—Cisco ANA Version 3.7.2

Software Version	ANA Version
ACE Appliance SW 3.2	3.7.1

Cisco ACE 4700—Supported Topologies

Table 7-47 Supported Topologies for Cisco ACE 4700—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Business	Business	3.7.1
Ethernet	Ethernet	3.7.1
Physical Layer	Physical Layer	3.7.1

Cisco ACE 4700—Supported Technologies

The following technologies are supported by the Cisco ACE 4700 in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)

Cisco ACE 4700—Supported Service Events

Table 7-48 Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active ip interfaces found	3.7.1	N
All ip interfaces down	3.7.1	N
BFD connectivity down	3.7.1	N
BFD connectivity up	3.7.1	N
BFD neighbor found	3.7.1	N
BFD neighbor loss	3.7.1	N
BGP link down due to admin	3.7.1	N
BGP link down due to oper	3.7.1	N
BGP link down vrf due to admin	3.7.1	N
BGP link down vrf due to oper	3.7.1	N

Table 7-48 **Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.2 (continued)**

Event Name	ANA Version	Expedited
BGP link up	3.7.1	N
BGP neighbor found	3.7.1	N
BGP neighbor loss due to admin	3.7.1	N
BGP neighbor loss due to oper	3.7.1	N
BGP neighbor loss VRF due to admin	3.7.1	N
BGP neighbor loss VRF due to oper	3.7.1	N
BGP process down	3.7.1	N
BGP process up	3.7.1	N
Card down	3.7.1	N
Card in	3.7.1	N
Card out	3.7.1	N
Card up	3.7.1	N
Device Managed	3.7.1	N
Device Partially Managed	3.7.1	N
Device Unsupported	3.7.1	N
Discarded packet rate exceeded upper threshold	3.7.1	N
Discarded packet rate is below lower threshold	3.7.1	N
Dropped packet rate exceeded upper threshold	3.7.1	N
Dropped packet rate is below lower threshold	3.7.1	N
DS1 Path down due to Admin	3.7.1	N
DS1 Path down due to Card	3.7.1	N
DS1 Path down due to Oper	3.7.1	N
DS1 Path Link down due to Card event	3.7.1	N
DS1 Path Link down on unreachable	3.7.1	N
DS1 Path up	3.7.1	N
DS3 Path down due to Admin	3.7.1	N
DS3 Path down due to Card	3.7.1	N
DS3 Path down due to Oper	3.7.1	N
DS3 Path Link down due to admin down	3.7.1	N
DS3 Path Link down due to Card event	3.7.1	N

Table 7-48 **Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.2 (continued)**

Event Name	ANA Version	Expedited
DS3 Path Link down due to oper down	3.7.1	N
DS3 Path Link down on unreachable	3.7.1	N
DS3 Path Link up	3.7.1	N
DS3 Path up	3.7.1	N
Dual stack IP added	3.7.1	N
Dual stack IP removed	3.7.1	N
GRE tunnel down	3.7.1	N
GRE tunnel up	3.7.1	N
High priority member down	3.7.1	N
High Priority MPLS-TE tunnel down	3.7.1	N
Interface status down	3.7.1	N
Interface status up	3.7.1	N
keepalive configured	3.7.1	N
keepalive not configured	3.7.1	N
l2tp peer established	3.7.1	N
l2tp peer is removed	3.7.1	N
l2tp peer not established	3.7.1	N
Layer 2 tunnel up	3.7.1	N
LDP neighbor down	3.7.1	N
LDP neighbor up	3.7.1	N
Link down due to admin down	3.7.1	N
Link down due to Card event	3.7.1	N
Link down due to oper down	3.7.1	N
Link down on unreachable	3.7.1	N
Link over utilized	3.7.1	N
Link up	3.7.1	N
Link utilization normal	3.7.1	N
Local switching entry down	3.7.1	N
Local switching entry up	3.7.1	N
Logical port down	3.7.1	N
Logical port up	3.7.1	N
Low priority member down	3.7.1	N
Low Priority MPLS-TE tunnel down	3.7.1	N
Management Unreachable	3.7.1	N
Medium priority member down	3.7.1	N

Table 7-48 *Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.2 (continued)*

Event Name	ANA Version	Expedited
Medium Priority MPLS-TE tunnel down	3.7.1	N
Memory utilization exceeded upper threshold	3.7.1	N
Memory utilization less than lower threshold	3.7.1	N
MPLS Black hole cleared	3.7.1	N
MPLS Black hole found	3.7.1	N
MPLS interface added	3.7.1	N
MPLS interface removed	3.7.1	N
MPLS TE FRR State Changed to Active	3.7.1	N
MPLS TE FRR State Changed to Ready	3.7.1	N
MPLS-TE tunnel down	3.7.1	N
MPLS-TE tunnel up	3.7.1	N
OSPF Neighbor Down	3.7.1	N
OSPF Neighbor Up	3.7.1	N
Port down due to admin	3.7.1	N
Port down due to Card down	3.7.1	N
Port down due to Card out	3.7.1	N
Port down due to oper	3.7.1	N
Port up	3.7.1	N
Primary HSRP interface is active	3.7.1	N
Primary HSRP interface is not active	3.7.1	N
rx dormant	3.7.1	N
rx dormant normal	3.7.1	N
Rx utilization exceeded upper threshold	3.7.1	N
Rx utilization is below lower threshold	3.7.1	N
Secondary HSRP interface is active	3.7.1	N
Secondary HSRP interface is not active	3.7.1	N
Service down	3.7.1	N
Service up	3.7.1	N
Shelf in	3.7.1	N
Shelf out	3.7.1	N

Table 7-48 Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.2 (continued)

Event Name	ANA Version	Expedited
SONET Path down due to Admin	3.7.1	N
SONET Path down due to Card	3.7.1	N
SONET Path Link down due to Card event	3.7.1	N
SONET Path Link down on unreachable	3.7.1	N
SONET Path up	3.7.1	N
tx dormant	3.7.1	N
tx dormant normal	3.7.1	N
Tx utilization exceeded upper threshold	3.7.1	N
Tx utilization is below lower threshold	3.7.1	N
VC changed	3.7.1	N
VC removed	3.7.1	N
VC Restored	3.7.1	N

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 3.7.2, see [Cisco Catalyst 4900 Series Switches](#)):

- [Cisco Catalyst 4900 Series—Supported Software Versions, page 7-41](#)
- [Cisco Catalyst 4900 Series—Supported Topologies, page 7-42](#)
- [Cisco Catalyst 4900 Series—Supported Modules, page 7-42](#)
- [Cisco Catalyst 4900 Series—Supported Technologies, page 7-46](#)
- [Cisco Catalyst 4900 Series—Supported Service Events, page 7-46](#)

Cisco Catalyst 4900 Series—Supported Software Versions

Table 7-49 Supported Software Versions for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2

Software Version	ANA Version
IOS 12.2(25)EWA	3.6.3 ¹
IOS 12.2(25)EWA2	3.6.3 ²
IOS 12.2(25)EWA4	3.6.2 ³

Table 7-49 *Supported Software Versions for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2 (continued)*

Software Version	ANA Version
IOS 12.2(25)EWA6	3.6.2 ⁴
IOS 12.2(31)SG	3.6.1 ⁵
IOS 12.2(31)SGA1	3.6.1 ⁶
IOS 12.2(50)SG	3.7 ⁷
IOS 12.2(52)SG	3.6.6 ⁸
IOS 12.2(53)SG	3.7 ⁹
IOS 12.2(54)SG	3.7.1
IOS 12.2(53)SG1	3.7.1

^{1, 2, 3, 4, 5, 6}ANA models pluggable ports for this IOS version.

^{7, 8, 9}ANA recognizes all maintenance builds in this IOS release train. ANA models pluggable ports for this IOS version.

Cisco Catalyst 4900 Series—Supported Topologies

Table 7-50 *Supported Topologies for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2*

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

Cisco Catalyst 4900 Series—Supported Modules

Table 7-51 *Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2*

Module Name	ANA Version	Module Description
CAB-SM-LCSC-1M	3.6.1	1m fiber single-mode LC-to-SC connectors
CAB-SM-LCSC-5M	3.6.1	5m fiber single-mode LC-to-SC connectors
CSS5-CABLX-LCSC	3.6.1	Cisco CSS 11500 10m fiber single-mode LX LC-to-SC connectors
CSS5-CABSX-LC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC connectors
CSS5-CABSX-LCSC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC-to-SC connectors
CWDM-SFP-1470	3.6.1	Longwave 1470 nm laser single-mode
CWDM-SFP-1490	3.6.1	Longwave 1490 nm laser single-mode

Table 7-51 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CWDM-SFP-1510	3.6.1	Longwave 1510 nm laser single-mode
CWDM-SFP-1530	3.6.1	Longwave 1530 nm laser single-mode
CWDM-SFP-1550	3.6.1	Longwave 1550 nm laser single-mode
CWDM-SFP-1570	3.6.1	Longwave 1570 nm laser single-mode
CWDM-SFP-1590	3.6.1	Longwave 1590 nm laser single-mode
CWDM-SFP-1610	3.6.1	Longwave 1610 nm laser single-mode
CWDM-SFP-XXXX	3.6.1	CWDM small form-factor pluggable module
DWDM-X2-30.33=	3.7	10GBASE-DWDM 1530.33 nm X2 (100-GHz ITU grid)
DWDM-X2-31.12=	3.7	10GBASE-DWDM 1531.12 nm X2 (100-GHz ITU grid)
DWDM-X2-31.90=	3.7	10GBASE-DWDM 1531.90 nm X2 (100-GHz ITU grid)
DWDM-X2-32.68=	3.7	10GBASE-DWDM 1532.68 nm X2 (100-GHz ITU grid)
DWDM-X2-34.25=	3.7	10GBASE-DWDM 1534.25 nm X2 (100-GHz ITU grid)
DWDM-X2-35.04=	3.7	10GBASE-DWDM 1535.04 nm X2 (100-GHz ITU grid)
DWDM-X2-35.82=	3.7	10GBASE-DWDM 1535.82 nm X2 (100-GHz ITU grid)
DWDM-X2-36.61=	3.7	10GBASE-DWDM 1536.61 nm X2 (100-GHz ITU grid)
DWDM-X2-38.19=	3.7	10GBASE-DWDM 1538.19 nm X2 (100-GHz ITU grid)
DWDM-X2-38.98=	3.7	10GBASE-DWDM 1538.98 nm X2 (100-GHz ITU grid)
DWDM-X2-39.77=	3.7	10GBASE-DWDM 1539.77 nm X2 (100-GHz ITU grid)
DWDM-X2-40.56=	3.7	10GBASE-DWDM 1540.56 nm X2 (100-GHz ITU grid)
DWDM-X2-42.14=	3.7	10GBASE-DWDM 1542.14 nm X2 (100-GHz ITU grid)
DWDM-X2-42.94=	3.7	10GBASE-DWDM 1542.94 nm X2 (100-GHz ITU grid)
DWDM-X2-43.73=	3.7	10GBASE-DWDM 1543.73 nm X2 (100-GHz ITU grid)
DWDM-X2-44.53=	3.7	10GBASE-DWDM 1544.53 nm X2 (100-GHz ITU grid)

Table 7-51 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
DWDM-X2-46.12=	3.7	10GBASE-DWDM 1546.12 nm X2 (100-GHz ITU grid)
DWDM-X2-46.92=	3.7	10GBASE-DWDM 1546.92 nm X2 (100-GHz ITU grid)
DWDM-X2-47.72=	3.7	10GBASE-DWDM 1547.72 nm X2 (100-GHz ITU grid)
DWDM-X2-48.51=	3.7	10GBASE-DWDM 1548.51 nm X2 (100-GHz ITU grid)
DWDM-X2-50.12=	3.7	10GBASE-DWDM 1550.12 nm X2 (100-GHz ITU grid)
DWDM-X2-50.92=	3.7	10GBASE-DWDM 1550.92 nm X2 (100-GHz ITU grid)
DWDM-X2-51.72=	3.7	10GBASE-DWDM 1551.72 nm X2 (100-GHz ITU grid)
DWDM-X2-52.52=	3.7	10GBASE-DWDM 1552.52 nm X2 (100-GHz ITU grid)
DWDM-X2-54.13=	3.7	10GBASE-DWDM 1554.13 nm X2 (100-GHz ITU grid)
DWDM-X2-54.94=	3.7	10GBASE-DWDM 1554.94 nm X2 (100-GHz ITU grid)
DWDM-X2-55.75=	3.7	10GBASE-DWDM 1555.75 nm X2 (100-GHz ITU grid)
DWDM-X2-56.55=	3.7	10GBASE-DWDM 1556.55 nm X2 (100-GHz ITU grid)
DWDM-X2-58.17=	3.7	10GBASE-DWDM 1558.17 nm X2 (100-GHz ITU grid)
DWDM-X2-58.98=	3.7	10GBASE-DWDM 1558.98 nm X2 (100-GHz ITU grid)
DWDM-X2-59.79=	3.7	10GBASE-DWDM 1559.79 nm X2 (100-GHz ITU grid)
DWDM-X2-60.61=	3.7	10GBASE-DWDM 1560.61 nm X2 (100-GHz ITU grid)
GLC-BX-D	3.6.1 ¹	1000BASE-BX10-D downstream bidirectional single fiber; with DOM
GLC-BX-U	3.6.1 ²	1000BASE-BX10-U upstream bidirectional single fiber; with DOM
GLC-LH-SM	3.6.1 ³	Gigabit Ethernet SFP, LC connector LH transceiver
GLC-SX-MM	3.6.1 ⁴	Gigabit Ethernet SFP, LC connector SX transceiver
GLC-T	3.6.1	Gigabit Ethernet SFP, RJ-45 connector, 1000BASE-T transceiver
GLC-ZX-SM	3.6.1 ⁵	Gigabit Ethernet SFP, LC connector ZX transceiver

Table 7-51 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
PWR-C49M-1000AC	3.7	Cisco Catalyst 4900M AC Power Supply
PWR-C49M-1000DC	3.7	4900M DC power supply, 1000 watts module
WS-C4948	3.6.1	Catalyst 4000 series fixed configuration switch with 48 10/100/1000BaseT wirespeed ports and 4 1000BaseX SFP ports
WS-C4948-10GE	3.6.1	Catalyst 4000 series fixed configuration switch with 48 10/100/1000BaseT wirespeed ports and 2 10Gbps X2 ports
WS-X4904-10GE	3.7	Catalyst 4000 series fixed configuration switch with 48 10/100/1000BaseT wirespeed ports and 4 1000BaseX SFP ports
WS-X4908-10GE	3.7	Catalyst 4900M series, half height line card with 8 port 2:1 10GE interface
WS-X4908-10G-RJ45	3.7.1	4900M 8 port 10GBase-T (RJ-45) half card
WS-X4920-GB-RJ45	3.7	Catalyst 4900M series, half height line card with 20 port 10/100/1000 RJ45 interface
WS-X4992	3.7	Cisco Catalyst 4900M Spare Fan Tray
X2-10GB-CX4	3.6.1 ⁶	10GBASE-CX4 single-mode X2 module
X2-10GB-ER	3.6.1 ⁷	10GBASE-ER single-mode X2 module
X2-10GB-LR	3.6.1 ⁸	10GBASE-LR single-mode X2 module
X2-10GB-LRM	3.7	10GBASE-LX4 X2 transceiver module for MMF, 1310-nm wavelength, SC duplex connector
X2-10GB-LX4	3.6.1 ⁹	10GBASE-LX4 single-mode X2 module
X2-10GB-SR	3.6.1 ¹⁰	10GBASE-SR single-mode X2 module
X2-10GB-ZR	3.7	10GBASE-ZR X2 transceiver module for SMF, 1550-nm wavelength, SC duplex connector
X2-10GE-CX4	3.6.1	10GBASE-CX4 X2 Module
X2-10GE-ER	3.6.1	10GBASE-ER X2 Module
X2-10GE-LR	3.6.1	10GBASE-LR X2 Module
X2-10GE-LX4	3.6.1	10GBASE-LX4 X2 Module
X2-10GE-SR	3.6.1	10GBASE-SR X2 Module

1, 2, 3, 4, 5, 6, 7, 8, 9, 10Support verified in ANA 3.7..

Cisco Catalyst 4900 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4900 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [VPN \(VRF\), page 7-106](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco Catalyst 4900 Series—Supported Service Events

Table 7-52 *Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active ip interfaces found	3.6.1	N
All ip interfaces down	3.6.1	N
BGP link down due to admin	3.6.1	N
BGP link down due to oper	3.6.1	N
BGP link down vrf due to admin	3.6.1	N
BGP link down vrf due to oper	3.6.1	N
BGP link up	3.6.1	N
BGP neighbor found	3.6.1	N
BGP neighbor loss due to admin	3.6.1	N
BGP neighbor loss due to oper	3.6.1	N
BGP process down	3.6.1	N
BGP process up	3.6.1	N
Card down	3.6.1	N
Card in	3.6.1	N
Card out	3.6.1	N
Card up	3.6.1	N
Device Managed	3.6.1	N

Table 7-52 **Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2**

Event Name	ANA Version	Expedited
Device Partially Managed	3.6.1	N
Device Unsupported	3.6.1	N
Discarded packet rate exceeded upper threshold	3.6.1	N
Discarded packet rate is below lower threshold	3.6.1	N
Dropped packet rate exceeded upper threshold	3.6.1	N
Dropped packet rate is below lower threshold	3.6.1	N
GRE tunnel down	3.6.1	N
GRE tunnel up	3.6.1	N
High priority member down	3.6.1	N
High Priority MPLS-TE tunnel down	3.6.1	N
keepalive configured	3.6.1	N
keepalive not configured	3.6.1	N
l2tp peer established	3.6.1	N
l2tp peer is removed	3.6.1	N
l2tp peer not established	3.6.1	N
LAG down	3.6.1	N
LAG Link down	3.6.1	N
LAG Link up	3.6.1	N
LAG up	3.6.1	N
Layer 2 tunnel up	3.6.1	N
LDP neighbor down	3.6.1	N
LDP neighbor up	3.6.1	N
Link down due to admin down	3.6.1	N
Link down due to Card event	3.6.1	N
Link down due to oper down	3.6.1	N
Link down on unreachable	3.6.1	N
Link over utilized	3.6.1	N
Link up	3.6.1	N
Link utilization normal	3.6.1	N
Logical port down	3.6.1	N
Logical port up	3.6.1	N
Low priority member down	3.6.1	N

Table 7-52 **Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2**

Event Name	ANA Version	Expedited
Low Priority MPLS-TE tunnel down	3.6.1	N
Management Unreachable	3.6.1	N
Medium priority member down	3.6.1	N
Medium Priority MPLS-TE tunnel down	3.6.1	N
Memory utilization exceeded upper threshold	3.6.1	N
Memory utilization less than lower threshold	3.6.1	N
Module Unsupported	3.6.1	N
MPLS interface added	3.6.1	N
MPLS interface removed	3.6.1	N
MPLS-TE tunnel up	3.6.1	N
OSPF Neighbor Down	3.6.1	N
OSPF Neighbor Up	3.6.1	N
Port down due to admin	3.6.1	N
Port down due to Card down	3.6.1	N
Port down due to Card out	3.6.1	N
Port down due to oper	3.6.1	N
Port up	3.6.1	N
Primary HSRP interface active	3.6.1	N
Primary HSRP interface not active	3.6.1	N
rx dormant	3.6.1	N
rx dormant normal	3.6.1	N
Rx utilization exceeded upper threshold	3.6.1	N
Rx utilization is below lower threshold	3.6.1	N
Secondary HSRP interface active	3.6.1	N
Secondary HSRP interface not active	3.6.1	N
Service down	3.6.1	N
Service up	3.6.1	N
Shelf in	3.6.1	N
Shelf out	3.6.1	N
tx dormant	3.6.1	N
tx dormant normal	3.6.1	N

Table 7-52 Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Tx utilization exceeded upper threshold	3.6.1	N
Tx utilization is below lower threshold	3.6.1	N

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 3.7.2, see [Cisco ME 4900 Series Ethernet Switch](#)):

- [Cisco 4924 ME—Supported Software Versions, page 7-49](#)
- [Cisco 4924 ME—Supported Topologies, page 7-50](#)
- [Cisco 4924 ME—Supported Modules, page 7-50](#)
- [Cisco 4924 ME—Supported Technologies, page 7-51](#)
- [Cisco 4924 ME—Supported Service Events, page 7-52](#)

Cisco 4924 ME—Supported Software Versions

Table 7-53 Supported Software Versions for Cisco 4924 ME—Cisco ANA Version 3.7.2

Software Version	ANA Version
12.2(25)EWA	3.6.3 ¹
12.2(25)EWA4	3.6.3 ²
12.2(25)EWA6	3.6.3 ³
12.2(31)SG	3.6.3 ⁴
12.2(31)SGA1	3.6.1 ⁵
12.2(46)SG	3.6.6 ⁶
12.2(50)SG	3.6.6 ⁷
12.2(53)SG	3.7 ⁸
12.2(53)SG2	3.7.1

^{1, 2, 3, 4, 5, 6, 7, 8}ANA models pluggable ports for this IOS version.

Cisco 4924 ME—Supported Topologies

Table 7-54 Supported Topologies for Cisco 4924 ME—Cisco ANA Version 3.7.2

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

Cisco 4924 ME—Supported Modules

Table 7-55 Supported Modules for Cisco 4924 ME—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CAB-SM-LCSC-1M	3.6.1	1m fiber single-mode LC-to-SC connectors
CAB-SM-LCSC-5M	3.6.1	5m fiber single-mode LC-to-SC connectors
CSS5-CABLX-LCSC	3.6.1	Cisco CSS 11500 10m fiber single-mode LX LC-to-SC connectors
CSS5-CABSX-LC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC connectors
CSS5-CABSX-LCSC	3.6.1	Cisco CSS 11500 10m fiber multimode SX LC-to-SC connectors
CWDM-SFP-1470	3.6.1	Cisco CWDM SFP 1470 nm; Gigabit Ethernet and 1G/2G FC (gray)
CWDM-SFP-1490	3.6.1	Cisco CWDM SFP 1490 nm; Gigabit Ethernet and FC (violet)
CWDM-SFP-1510	3.6.1	Cisco CWDM SFP 1510 nm; Gigabit Ethernet and 1G/2G FC (blue)
CWDM-SFP-1530	3.6.1	Cisco CWDM SFP 1530 nm; Gigabit Ethernet and 1G/2G FC (green)
CWDM-SFP-1550	3.6.1	Cisco CWDM SFP 1550 nm; Gigabit Ethernet and 1G/2G FC (yellow)
CWDM-SFP-1570	3.6.1	Cisco CWDM SFP 1570 nm; Gigabit Ethernet and 1G/2G FC (orange)
CWDM-SFP-1590	3.6.1	Cisco CWDM SFP 1590 nm; Gigabit Ethernet and 1G/2G FC (red)
CWDM-SFP-1610	3.6.1	Cisco CWDM SFP 1610 nm; Gigabit Ethernet and 1G/2G FC (brown)
GLC-BX-D	3.6.1	1000BASE-BX10-D downstream bidirectional single fiber; with DOM
GLC-BX-U	3.6.1	1000BASE-BX10-U upstream bidirectional single fiber; with DOM

Table 7-55 **Supported Modules for Cisco 4924 ME—Cisco ANA Version 3.7.2 (continued)**

Module Name	ANA Version	Module Description
GLC-LH-SM	3.6.1	Gigabit Ethernet SFP, LC connector LH transceiver
GLC-SX-MM	3.6.1	Gigabit Ethernet SFP, LC connector SX transceiver
GLC-T	3.6.1	Gigabit Ethernet SFP, RJ-45 connector, 1000BASE-T transceiver
GLC-ZX-SM	3.6.1	Gigabit Ethernet SFP, LC connector ZX transceiver
ME-4924-10GE	3.6.1	Cisco ME 4924-10GE, IP Base software image (RIP, static routes), no power supply, fan tray
PWR-C49-300DC	3.6.6	Power Supply (DC 300W)
WS-X4991	3.6.6	Fan Tray
X2-10GE-CX4	3.6.1	10GBASE-CX4 X2 Module
X2-10GE-ER	3.6.1	10GBASE-ER X2 Module
X2-10GE-LR	3.6.1	10GBASE-LR X2 Module
X2-10GE-LX4	3.6.1	10GBASE-LX4 X2 Module
X2-10GE-SR	3.6.1	10GBASE-SR X2 Module

Cisco 4924 ME—Supported Technologies

The following technologies are supported by the Cisco 4924 ME in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [VPN \(VRF\), page 7-106](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco 4924 ME—Supported Service Events

Table 7-56 *Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active ip interfaces found	3.6.1	N
All ip interfaces down	3.6.1	N
BGP link down due to admin	3.6.1	N
BGP link down due to oper	3.6.1	N
BGP link down vrf due to admin	3.6.1	N
BGP link down vrf due to oper	3.6.1	N
BGP link up	3.6.1	N
BGP neighbor found	3.6.1	N
BGP neighbor loss due to admin	3.6.1	N
BGP neighbor loss due to oper	3.6.1	N
BGP process down	3.6.1	N
BGP process up	3.6.1	N
Card down	3.6.1	N
Card in	3.6.1	N
Card out	3.6.1	N
Card up	3.6.1	N
Device Managed	3.6.1	N
Device Partially Managed	3.6.1	N
Device Unsupported	3.6.1	N
Discarded packet rate exceeded upper threshold	3.6.1	N
Discarded packet rate is below lower threshold	3.6.1	N
Dropped packet rate exceeded upper threshold	3.6.1	N
Dropped packet rate is below lower threshold	3.6.1	N
GRE tunnel down	3.6.1	N
GRE tunnel up	3.6.1	N
High priority member down	3.6.1	N
High Priority MPLS-TE tunnel down	3.6.1	N
keepalive configured	3.6.1	N
keepalive not configured	3.6.1	N
l2tp peer established	3.6.1	N

Table 7-56 **Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.7.2 (continued)**

Event Name	ANA Version	Expedited
l2tp peer is removed	3.6.1	N
l2tp peer not established	3.6.1	N
LAG down	3.6.1	N
LAG Link down	3.6.1	N
LAG Link up	3.6.1	N
LAG up	3.6.1	N
Layer 2 tunnel up	3.6.1	N
LDP neighbor down	3.6.1	N
LDP neighbor up	3.6.1	N
Link down due to admin down	3.6.1	N
Link down due to Card event	3.6.1	N
Link down due to oper down	3.6.1	N
Link down on unreachable	3.6.1	N
Link over utilized	3.6.1	N
Link up	3.6.1	N
Link utilization normal	3.6.1	N
Logical port down	3.6.1	N
Logical port up	3.6.1	N
Low priority member down	3.6.1	N
Low Priority MPLS-TE tunnel down	3.6.1	N
Management Unreachable	3.6.1	N
Medium priority member down	3.6.1	N
Medium Priority MPLS-TE tunnel down	3.6.1	N
Memory utilization exceeded upper threshold	3.6.1	N
Memory utilization less than lower threshold	3.6.1	N
Module Unsupported	3.6.1	N
MPLS interface added	3.6.1	N
MPLS interface removed	3.6.1	N
MPLS-TE tunnel up	3.6.1	N
OSPF Neighbor Down	3.6.1	N
OSPF Neighbor Up	3.6.1	N
Port down due to admin	3.6.1	N
Port down due to Card down	3.6.1	N

Table 7-56 *Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.7.2 (continued)*

Event Name	ANA Version	Expedited
Port down due to Card out	3.6.1	N
Port down due to oper	3.6.1	N
Port up	3.6.1	N
Primary HSRP interface active	3.6.1	N
Primary HSRP interface not active	3.6.1	N
rx dormant	3.6.1	N
rx dormant normal	3.6.1	N
Rx utilization exceeded upper threshold	3.6.1	N
Rx utilization is below lower threshold	3.6.1	N
Secondary HSRP interface active	3.6.1	N
Secondary HSRP interface not active	3.6.1	N
Service down	3.6.1	N
Service up	3.6.1	N
Shelf in	3.6.1	N
Shelf out	3.6.1	N
tx dormant	3.6.1	N
tx dormant normal	3.6.1	N
Tx utilization exceeded upper threshold	3.6.1	N
Tx utilization is below lower threshold	3.6.1	N

Cisco Catalyst 5000 Series Switches

This section includes the following information about Cisco 5000 Series switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco Catalyst 5000 Series Switches](#)):

- [Cisco 5000 Series—Supported Software Versions, page 7-55](#)
- [Cisco 5000 Series—Supported Topologies, page 7-55](#)
- [Cisco 5000 Series—Supported Technologies, page 7-55](#)
- [Cisco 5000 Series—Supported Service Events, page 7-55](#)

Cisco 5000 Series—Supported Software Versions

Table 7-57 Supported Software Versions for Cisco 5000 Series—Cisco ANA Version 3.7.2

Software Version	ANA Version
4.5(15)	3.7

Cisco 5000 Series—Supported Topologies

Table 7-58 Supported Topologies for Cisco 5000 Series—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Business	Business	3.7
Ethernet	Ethernet	3.7
Physical Layer	Physical Layer	3.7

Cisco 5000 Series—Supported Technologies

The following technologies are supported by the Cisco 5000 Series in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)

Cisco 5000 Series—Supported Service Events

Table 7-59 Supported Service Events for Cisco 5000 Series—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7	Y
All IP Interfaces Down	3.7	Y
BGP process up	3.7	N
Card Down	3.7	Y
Card In	3.7	Y
Card Out	3.7	Y
Card Up	3.7	Y

Table 7-59 Supported Service Events for Cisco 5000 Series—Cisco ANA Version 3.7.2 (continued)

Event Name	ANA Version	Expedited
CPU utilization exceeded upper threshold	3.7	N
Device Unsupported	3.7	N
Link up	3.7	N
Module Unsupported	3.7	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 3.7.2, see [Cisco Catalyst 6500 Series \(CatOS\) Switches](#)):

- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Software Versions, page 7-56](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Topologies, page 7-57](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Modules, page 7-57](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Technologies, page 7-60](#)
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Service Events, page 7-60](#)

Cisco Catalyst 6500 Series (CatOS)—Supported Software Versions

Table 7-60 Supported Software Versions for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.2

Software Version	ANA Version
6.4(10)	3.6.3
7.6(1)	3.6.3
7.6(8)	3.6.3
8.3(4)	3.6.3
8.4.1	3.6.3
8.5(1)	3.7 ¹
8.5(7)	3.7

¹ANA recognizes all maintenance builds in this CatOS release train.

Cisco Catalyst 6500 Series (CatOS)—Supported Topologies

Table 7-61 *Supported Topologies for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.2*

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0
LAG	LAG	3.6.2

Cisco Catalyst 6500 Series (CatOS)—Supported Modules

Table 7-62 *Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.2*

Module Name	ANA Version	Module Description
AIP	3.6.0	ATM Interface Processor
CAT6509	3.6.0	Catalyst 6500 Plus with 9 slots
CAT6K-MSFC	3.6.0	Multilevel Switching Feature Card for the Catalyst 6000 series
CAT6K-MSFC2	3.6.0	Multilevel Switching Feature Card Version 2 for the Catalyst 6000 series
CAT6K-WSF-6700-CFC	3.6.0	Catalyst 6500 centralized Forwarding Card
CAT6K-WSF-6K-DFC3A	3.6.0	Catalyst 6500 Distributed L3 switching engine IIIa
CAT6K-WSF-6K-PFC3A	3.6.0	Catalyst 6500 Centralized L3 switching engine IIIa
CAT6K-WSF-6K-VPWR-GE	3.6.0	Cat6k voice daughter cards
CAT6K-WS-SUP32-GE-3B	3.6.0	cat6k-ws-sup32-ge-3b
CAT6K-WS-SUP720	3.6.0	Catalyst 6500 Supervisor Module 720 CPU board
CAT6K-WS-SUP720-BASE	3.6.0	Catalyst 6500 Supervisor Module 720 base board
CAT6K-WS-SVC-IDS2	3.6.0	Catalyst 6500 Intrusion Detection Module
CAT6K-WSX-6066-SLB-APC	3.6.0	Content Switching Module
CAT6K-WSX-6148-GE-TX	3.6.0	Catalyst 6000 48 port 10/100/1000BaseT(RJ-45) module
CAT6K-WSX-6148-RJ45	3.6.0	48 port 10/100BaseTX(RJ-45) module
CAT6K-WSX-6248A-RJ45	3.6.0	Catalyst 6000 48-port 10/100BaseTX RJ-45
CAT6K-WSX-6248-RJ45	3.6.0	Catalyst 6000 Family 48-port 10/100 RJ-45 module
CAT6K-WSX-6348-RJ45	3.6.0	48-port 10/100 ethernet module
CAT6K-WSX-6416-GBIC	3.6.0	16-port GBIC Gigabit ethernet module
CAT6K-WSX-6515-GETX	3.6.0	Catalyst 6500 16 port 10/100/1000BaseT (RJ-45) module

Table 7-62 Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
CAT6K-WSX-6516A-GBIC	3.6.0	Catalyst 6500 16 port 1000BaseX (GBIC)
CAT6K-WSX-6516-GBIC	3.6.0	Catalyst 6500 16 port 1000BaseX GBIC
CAT6K-WSX-6524-MMMT	3.6.0	Catalyst 6500 24 port 100BaseX MM (MT-RJ) module
CAT6K-WSX-6548-GETX	3.6.0	Catalyst 6500 48 port 10/100/1000 (RJ-45)
CAT6K-WSX-6548-RJ21	3.6.0	Catalyst 6500 48 port 10/100BaseTX (RJ-21)
CAT6K-WSX-6548-RJ45	3.6.0	48 port 10/100 Hydra2+/Hydra2V+
CAT6K-WSX-6704-10GE	3.6.0	Catalyst 6500 4 port 10 GE
CAT6K-WSX-6724-SFP	3.6.0	Catalyst 6500 24 port 1000Base FX (SFP GBIC)
CAT6K-WSX-6748-GETX	3.6.0	Catalyst 6500 48 port 10/100/1000 (RJ-45)
CAT6K-WSX-SUP1A-2GE	3.6.0	Catalyst 6500 2 port 1000BaseX Supervisor module (GBIC)
CAT6K-WSX-SUP2-2GE	3.6.0	Supervisor 2 with 2 Gigabit Ethernet ports
CATALYST 6500 FIREWALL MODULE	3.6.0	Catalyst 6500 Firewall Module
CEF720 48 PORT 1000MB SFP	3.6.0	Catalyst 6500 48 port 1000Base FX (SFP GBIC)
FSIP	3.6.0	Fast Serial Interface processor
HDV	3.6.0	High Density Voice module
MIP	3.6.0	MultiChanel Interface Processor
MSFC2A ROUTE ENGINE	3.6.0	MSFC2A Route Engine
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=
PA-1T3-PLUS	3.6.0	pa-1t3-plus
PA-2FEISL-TX	3.6.0	pa-2feisl-tx
PA-2T3-PLUS	3.6.0	pa-2t3-plus
PA-8CE1	3.6.0	pa-8ce1
PA-A4T	3.6.0	pa-a4t
PA-A8T-V35	3.6.0	pa-a8t-v35
PA-AH1T	3.6.0	pa-ah1t
PA-AH2T	3.6.0	pa-ah2t
PA-ATMDX-DS3	3.6.0	pa-atmdx-ds3
PA-ATMDX-E3	3.6.0	pa-atmdx-e3
PA-ATMDX-MM-OC3	3.6.0	pa-atmdx-mm-oc3
PA-ATMDX-SMI-OC3	3.6.0	pa-atmdx-smi-oc3
PA-ATMDX-SML-OC3	3.6.0	pa-atmdx-sml-oc3
PA-CE3	3.6.0	pa-ce3

Table 7-62 Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
PA-POSSW-LR	3.6.0	pa-poss-sw-lr
PA-POSSW-MM	3.6.0	pa-poss-sw-mm
PA-POSSW-SM	3.6.0	pa-poss-sw-sm
PM-1FE-1T1	3.6.0	pm-1fe-1t1
POLICY FEATURE CARD 3	3.6.0	Policy Feature Card 3
POS-OC12-MM	3.6.0	pos-oc12-mm
RP	3.6.0	ROMmon Recovery Procedure
SPA-10X1GE	3.6.1	10-port Gigabit Ethernet SPA, SFP Optics
SPA-1XTENGE-XFP	3.6.1	1-port 10 Gigabit Ethernet SPA, LANPHY XFP Optics
SPA-2XOC3-ATM	3.6.1	2-port OC-3c/STM-1c ATM SPA
SPA-2XOC48POS/RPR	3.6.1	1-port 10 Gigabit Ethernet Shared Port Adapter XFP based
SPA-4XOC3-ATM	3.6.1	4-port OC-3c/STM-1c ATM SPA
TRIP	3.6.0	trip
VPN MODULE	3.6.0	VPN Module
VPN MODULE SUPPORTING 3DES	3.6.0	VPN Module supporting 3DES
WS-C6500-SFM	3.6.0	Switch Fabric Module
WS-C6509-NEB-A	3.6.1	Enhanced 9-slot vertically oriented chassis
WS-F6K-PWR	3.6.0	CATALYST 6000 INLINE POWER CARD, REF
WS-SUP720-3BXL	3.6.0	Catalyst 6500/Cisco 7600 Supervisor 720 Fabric MSFC3 PFC3BXL
WS-SVC-ADM-1-K9=	3.6.0	Catalyst 6500 Cisco Anomaly Detection Module
WS-SVC-AGM-1-K9=	3.6.0	Catalyst 6500 Cisco Anomaly Guard Module
WS-SVC-IDS2-BUN-K9	3.6.1	Cisco Catalyst 6500 Series Intrusion Detection System (IDSM-2) Service Module
WS-SVC-SSL-1-K9=	3.6.0	SSL Module for Catalyst 6500
WS-X6148-FE-SFP	3.6.0	Cisco Catalyst 6500 48-port 100BASE-X SFP Module
WSX-6408A-GBIC	3.6.0	Catalyst 6000 8-port Gigabit Ethernet Module
WSX-6408-GBIC	3.6.0	Card with 8 Gigabit Ethernet ports for the Catalyst 6000 series
WS-X6500-SFM2	3.6.0	Switch Fabric Module 2
WVIC-2DSU-T1(V2)	3.6.0	wvic-2dsu-t1(V2)

Cisco Catalyst 6500 Series (CatOS)—Supported Technologies

The following technologies are supported by the Cisco Catalyst 6500 Series (CatOS) in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Frame Relay, page 7-95](#)
- [PPP, page 7-97](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)

Cisco Catalyst 6500 Series (CatOS)—Supported Service Events

Table 7-63 *Supported Service Events for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N

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 3.7.2, see [Cisco Catalyst 6500 Series \(IOS\) Switches](#)):

- [Cisco Catalyst 6500 Series \(IOS\)—Supported Software Versions, page 7-61](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Topologies, page 7-61](#)

- [Cisco Catalyst 6500 Series \(IOS\)—Supported Modules, page 7-62](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Technologies, page 7-69](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Service Events, page 7-69](#)

Cisco Catalyst 6500 Series (IOS)—Supported Software Versions

Table 7-64 *Supported Software Versions for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2*

Software Version	ANA Version
IOS 12.1	3.6.1
IOS 12.1(13)E6	3.6.2
IOS 12.1(20)E3	3.6.2
IOS 12.2	3.6.1 ¹
IOS 12.2(17d)SXB	3.6.1
IOS 12.2(18)SXD2	3.6.2
IOS 12.2(18)SXD5	3.6.2
IOS 12.2(18)SXE	3.6.1 ²
IOS 12.2(18)SXF	3.6.1 ³
IOS 12.2(18)SXF7	3.6.2 ⁴
IOS 12.2(33)	3.6.1 ⁵
IOS 12.2(33)SRA	3.6.1 ⁶
IOS 12.2(33)SRA6	3.6.3 ⁷
IOS 12.2(33)SXH	3.6.3 ⁸
IOS 12.2(33)SXH1	3.6.3 ⁹
IOS 12.2(33)SXH2	3.6.6 ¹⁰
IOS 12.2(33)SXH2a	3.6.5 ¹¹
IOS 12.2(33)SXI	3.6.4 ¹²
starts with 12.2(SIERRA)	3.6.1 ¹³

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 ANA models pluggable ports for this IOS version.

Cisco Catalyst 6500 Series (IOS)—Supported Topologies

Table 7-65 *Supported Topologies for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2*

Topology Type	Link Type	ANA Version
BGP	BGP	3.6.0
Ethernet	Ethernet	3.6.0

Table 7-65 Supported Topologies for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
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
LAG	LAG	3.6.0

Cisco Catalyst 6500 Series (IOS)—Supported Modules

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
4000W-DC	3.6.2	4000W DC PS for 7609/7613Chassis
6000W-DC	3.6.2	6000W DC PS
7600-ES+40G3C	3.6.7	7600 ES+ Line Card, 40xGE SFP with DFC 3C
7600-ES20	3.6.1	Cisco 7600 Series Ethernet Services Card
7600-ES20-10G3C	3.6.1	Cisco 7600 ES20 line card, 2x10GE XFP with DFC 3C
7600-ES20-10G3CXL	3.6.1	Cisco 7600 ES20 line card, 2x10GE XFP with DFC 3CXL
7600-ES20-GE3C	3.6.1	Cisco 7600 ES20 line card, 20xGE SFP with DFC 3C
7600-ES20-GE3CXL	3.6.1	Cisco 7600 ES20 line card, 20xGE SFP with DFC 3CXL
7600-ES20-PROC	3.6.1	7600 ES20 PROC FRU
7600-ES40-G3CXL	3.6.4	7600 ES+ Line Card, 40xGE SFP with DFC 3CXL
7600-MSFC4	3.6.1	c7600 MSFC4 Daughterboard
7600-SIP-200	3.6.0	SPA Interface Processor-200
7600-SIP-400	3.6.0	SPA Interface Processor-400
7600-SIP-600	3.6.0	SPA Interface Processor-600
7600-SSC-400	3.6.3	Cisco 7600 / Catalyst 6500 Services SPA Carrier Card-400 Rev. 2.0
76-ES+T-20G	3.7.1	7600 ES+T Fixed 20x1G Low Queue Transport 3CXL
76-ES+T-2TG	3.7.1	7600 ES+T Fixed OTN/DWDM+FEC 2x10GE 3C XL Low Queue Transport 3CXL
76-ES+T-40G	3.7.1	7600 ES+T Fixed 40x1G Low Queue Transport 3CXL
76-ES+T-4TG	3.7.1	7600 ES+T Fixed OTN/DWDM+FEC 4x10GE 3C XL Low Queue Transport 3CXL

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
76-ES+XC-20G3C	3.7	7600 ES+XC Combo 10x1GE/ 1x10GE, DFC3CXL
76-ES+XC-20G3CXL	3.7	7600 ES+XC Combo 10x1GE/ 1x10GE, DFC3CXL
76-ES+XC-40G3C	3.7	Combo 20x1GE/2x10GE - 3C
76-ES+XC-40G3CXL	3.7	Combo 20x1GE/2x10GE - 3CXL
ACE20-MOD-K9	3.6.3	Application Control Engine 20 Hardware
CAT6500FIREWALLSM	3.6.2	Cisco Catalyst 6500 Series Firewall Services Module
CAT6500SSLSM	3.6.2	Cisco Catalyst 6500 Series SSL Services Module
CEVFAN	3.6.1	Fan
DFC-3C	3.6.1	Distributed Forwarding Card 3C
FAN-MOD-09	3.6.4	Catalyst 6509-NEB-A Fan Tray
GLC_BX-U	3.6.7	1000BASE-BX10 SFP module for single-strand SMF, 1310-nm TX/1490-nm RX wavelength
GLC-BX-D	3.6.7	1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength
GLC-LH-SM	3.6.4	Short Wave fiber Gigabit Ethernet
MSFC4	3.6.2	Multilayer Switch Feature Card
OSM-12CT3T1	3.6.0	12-port channelized/unchannelized CT3-T1
OSM-1CHOC12T3-SI	3.6.0	1-port channelized OC-12, SM-IR
OSM-1OC48-POS-SI+	3.6.0	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-IR
OSM-1OC48-POS-SL+	3.6.0	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-LR
OSM-1OC48-POS-SS+	3.6.0	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-SR
OSM-2+4GE-WAN+	3.6.0	4-port Gigabit Ethernet WAN (GBIC) with two Layer 2 LAN ports; CEF256
OSM-2OC12-ATM-MM+	3.6.0	Enhanced 2-port OC-12/STM-4 ATM OSM, MM
OSM-2OC12-ATM-SI+	3.6.0	Enhanced 2-port OC-12/STM-4 ATM OSM, SM-IR
OSM-2OC12-POS-SI+	3.6.0	Enhanced 2-port OC-12c/STM-4c POS, SM-IR; CEF256
OSM-4OC12-POS-SI+	3.6.0	Enhanced 4-port OC-12c/STM-4c POS, SM-IR; CEF256
OSM-4OC3-POS-SI+	3.6.0	Enhanced 4-port OC-3c/STM-1c POS, SM-IR;
PA-1FE-FX	3.6.0	1-port Fast Ethernet port adapter
PA-1FE-TX	3.6.0	1-port Fast Ethernet port adapter
PA-2CE/PRI	3.6.1	Not Found
PA-2FE-TX	3.6.0	2-port Fast Ethernet port adapter
PA-4T+	3.6.0	T1/E1 port adapters

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
PA-A3-E3	3.6.0	ATM with traffic shaping port adapters
PA-A3-T3	3.6.0	ATM with traffic shaping port adapters
PA-MC-2E1/120	3.6.1	2 port multichannel E1 port adapter with G.703 120ohm interf
PA-MC-4T1	3.6.0	T1/E1 port adapters
PA-MC-8T1	3.6.0	T1/E1 port adapters
PA-MC-STM-1	3.6.0	Multichannel STM-1 port adapters
PA-MCX-8TE1	3.6.1	8 port multichannel T1/E1 8PRI port adapter
PA-POS-2OC3	3.6.0	2-port POS OC3c/STM1 port adapter
PFC-3C	3.6.2	Policy Feature Card 3C
PFC-3CXL	3.6.1	Policy Feature Card 3Cxl (PFC3CXL)
PWR-2700-AC/4	3.6.4	2700W AC power supply for Cisco Catalyst 6504-E
PWR-2700-DC/4	3.6.2	2700W DC Power Supply for Cisco 6504-E
PWR-4000-DC	3.6.4	Cisco 4000 Watt DC power supply for Catalyst 6000
RSP720-3C-10GE	3.7	Cisco 7600 Series RSP 720-10GE with 10 Gigabit Ethernet Uplinks that includes PFC-3C and Multilayer Switch Feature Card (MSFC4)
RSP720-3C-GE	3.6.1	Route Switch Processor 720 with PFC3C
RSP720-3CXL	3.6.4	Catalyst 6500 Supervisor Module 720 base board
RSP720-3CXL-10GE	3.7	Cisco 7600 Series RSP 720-10GE with 10 Gigabit Ethernet Uplinks that includes PFC-3CXL and Multilayer Switch Feature Card (MSFC4)
SFP-GE-L	3.6.4	1000BASE-LH/LX pluggable transceiver
SFP-GE-S	3.6.7	1000BASE-Sx Short wavelength gigabit ethernet SFP
SFP-GE-T	3.6.7	1000BASE-T Copper gigabit ethernet SFP
SFP-GE-Z	3.6.7	1000BASE-Zx Extended reach gigabit ethernet SFP
SFP-OC3-IR1	3.6.0	Intermediate range, single-mode fiber
SFP-OC3-LR1	3.6.0	Long range, single-mode fiber
SFP-OC3-MM	3.6.0	Short range, multimode fiber
SFP-OC3-SR	3.6.1	OC3/STM1 SFP, Single-mode fiber, Short Reach
SPA-10X1GE	3.6.0	10-port Gigabit Ethernet SPA, SFP Optics
SPA-10X1GE-V2	3.6.0	10-port Gigabit Ethernet SPA, SFP Optics
SPA-1XCHSTM1/OC3	3.6.0	1-port Channelized STM1/OC3 to DS0 SPA
SPA-1XOC12-ATM	3.6.0	1-Port OC-12c/STM-4c ATM SPA
SPA-1XOC12-POS	3.6.0	1-port OC-12c/STM-4c POS SPA
SPA-1XOC48-ATM	3.6.0	1 port OC-48c/STM-16 ATM SPA

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
SPA-1XTENGE-XFP	3.6.0	1-port 10 Gigabit Ethernet SPA, LANPHY XFP Optics
SPA-24CHT1-CE-ATM	3.6.0	24-Port Channelized T1/E1/J1 ATM CEoP SPA
SPA-2X1GE	3.6.0	2-port Gigabit Ethernet SPA, SFP Optics
SPA-2X1GE-V2	3.6.0	2-port Gigabit Ethernet SPA, SFP Optics
SPA-2XCT3/DS0	3.6.0	2-port Channelized T3 to DS0 SPA
SPA-2XOC3-ATM	3.6.0	2-port OC-3c/STM-1c ATM SPA
SPA-2XOC3-POS	3.6.0	2-port OC-3c/STM-1c POS SPA
SPA-2XOC48POS/RPR	3.6.1	1-port 10 Gigabit Ethernet Shared Port Adapter XFP based
SPA-2XOC48POS/RPR	3.6.0	2 port OC-48 POS/RPR SPA with SFP Optics
SPA-2XT3/E3	3.6.0	2-port Clear Channel T3/E3 SPA
SPA-4X1FE-TX-V2	3.6.0	4-port 10/100 Ethernet SPA TX
SPA-4XCT3/DS0	3.6.0	4-port Channelized T3 to DS0 SPA
SPA-4XOC3-ATM	3.6.0	4-port OC-3c/STM-1c ATM SPA
SPA-4XOC3-POS	3.6.0	4-port OC-3c/STM-1c POS SPA
SPA-4XOC48POS/RPR	3.6.0	4-port OC-48c/STM-16 POS/DPT/RPR SPA
SPA-4XT3/E3	3.6.0	4-port Clear Channel T3/E3 SPA
SPA-5X1GE	3.6.0	5-port Gigabit Ethernet SPA, SFP Optics
SPA-5X1GE-V2	3.6.2	5-Port Gigabit Ethernet Shared Port Adapter
SPA-8X1FE-TX-V2	3.6.0	8-port 10/100 Ethernet SPA TX
SPA-8XCHT1E1	3.6.0	8-Port Channelized T1/E1 SPA
SPA-CHOC3-CE-ATM	3.6.2	1-port Channelized OC3/STM-1 ATM + Circuit Emulation Shared Port Adapter
SPA-OC192POS-LR	3.6.0	1-port OC-192c/STM-64 POS/RPR SPA, SM-LR
SPA-OC192POS-XFP	3.6.0	1-port OC-192c/STM-64 POS/RPR SPA, XFP Optics
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
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
WS-6700-DFC3B	3.6.1	Catalyst 6500 Distributed forwarding card 3B
WS-6700-DFC3BXL	3.6.1	Catalyst 6500 Distributed forwarding card 3B XL
WS-C6000-CL	3.7	Cisco Catalyst 6000 Clock FRU
WS-C6503-E-FAN	3.6.4	Catalyst 6503-E Chassis Fan Tray
WS-C6506-E-FAN	3.6.4	Catalyst 6506 - E chassis fan Tray

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
WS-C6509-E-FAN	3.6.0	High-capacity fan tray
WS-C6509-NEB-A	3.6.1	Enhanced 9-slot vertically oriented chassis
WS-C6509-NEB-FAN	3.6.4	Catalyst 6509-NEB Fan Tray for 9-Vertical-Slot System
WS-C6509-V-E-FAN	3.6.4	Catalyst 6509-V-E Fan Tray
WS-C6513-CL	3.7	Cisco Clock Module WS-C6513-CL
WS-C6K-13SLT-FAN2	3.6.0	High Speed Fan Tray for Catalyst 6513 / Cisco 7613
WS-C6K-VTT	3.7	Catalyst 6000 VTT Module
WS-CAC-2500W	3.6.4	Catalyst 6500 2500W AC power supply
WS-CAC-3000W	3.6.4	Catalyst 6500 3000W AC power supply
WS-CAC-4000W-INT	3.6.3	4000W AC PowerSupply, International (cable included)
WS-CAC-6000W	3.6.0	6000W AC power supply
WS-CDC-2500W	3.6.4	Cisco 2500 Watt DC power supply for Catalyst 6000 or 8500 series
WS-F6700-DFC3A	3.6.1	Distributed Forwarding Card 3
WS-F6700-DFC3BXL	3.6.0	Distributed Forwarding Card 3BXL (DFC3BXL) for use on CEF720 modules
WS-F6700-DFC3C	3.6.0	Distributed Forwarding Card 3C (DFC3C) for use on CEF720 modules
WS-F6700-DFC3CXL	3.6.0	Distributed Forwarding Card 3CXL (DFC3CXL) for use on CEF720 modules
WS-F6K-FE48X2-AF	3.6.0	IEEE 802.3af PoE daughter card
WS-F6K-GE48-AF	3.6.0	IEEE 802.3af PoE daughter card
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
WS-F6K-PFC2	3.6.1	Catalyst 6500 L3 switching engine II
WS-F6K-PFC3BXL	3.6.0	Policy Feature Card 3BXL (PFC3BXL)
WS-F6K-PFC3CXL	3.6.0	Policy Feature Card 3CXL (PFC3CXL)
WS-F6K-VPWR	3.6.0	PoE Daughter card
WS-F6K-VPWR-GE	3.6.0	PoE Daughter card
WS-G5486	3.6.4	Long Haul fiber Gigabit Ethernet
WS-G6483	3.6.0	10GBASE-ER serial 1550 nm extended-reach OIM
WS-G6488	3.6.0	10GBASE-LR serial 1310 nm long-reach OIM
WS-SUP32-10GE-3B	3.6.0	Supervisor Engine 32
WS-SUP32-GE-3B	3.6.0	Supervisor Engine 32
WS-SUP720-3B	3.6.0	Supervisor Engine 720 with PFC3B

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
WS-SUP720-3BXL	3.6.0	Supervisor Engine 720 with PFC3BXL
WS-SVC-FWM-1	3.6.0	Catalyst 6500 Firewall Module
WS-SVC-IDS2-BUN-K9	3.6.1	Cisco Catalyst 6500 Series Intrusion Detection System (IDSM-2) Service Module
WS-SVC-IDSM-2	3.6.1	Catalyst 6500 Intrusion Detection Module
WS-SVC-MWAM-1	3.6.0	Multi-Processor WAN Application Module
WS-SVC-NAM-1	3.6.0	Network Analysis module 1
WS-SVC-NAM-2	3.6.0	Network Analysis module 2
WS-X6148A-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module
WS-X6148A-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module
WS-X6148FE-SFP	3.6.1	Catalyst 6500 48 port 100Base-X SFP module
WS-X6148-FE-SFP	3.6.0	48 port 100BASE-FX Fast Ethernet Switching Module
WS-X6148-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module
WS-X6148-RJ-21	3.6.0	48 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module
WS-X6148-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module
WS-X6148X2-RJ-45	3.6.0	96 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module
WS-X6196-RJ-21	3.6.0	96 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module
WS-X6248A-TEL	3.6.0	48 port 10/100TX RJ-21 Enhanced Ethernet/Fast Ethernet Switching Module
WS-X6248-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module
WS-X6248-TEL	3.6.0	48 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module
WS-X6316-GE-TX	3.6.0	16-port Gigabit Ethernet RJ-45
WS-X6324-100FX-SM	3.6.0	24 port 100FX Single Mode Fast Ethernet Switching Module
WS-X6348-RJ-21	3.6.0	6500 48 port 10/100BaseTX (RJ-21)
WS-X6348-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module
WS-X6408A-GBIC	3.6.0	8-port Gigabit Ethernet GBIC Enhanced QoS Module
WS-X6408-GBIC	3.6.0	8-port Gigabit Ethernet GBIC

Table 7-66 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
WS-X6416-GBIC	3.6.0	16-port Gigabit Ethernet GBIC
WS-X6502-10GE	3.6.0	1-port 10-Gigabit Ethernet
WS-X6516A-GBIC	3.6.0	16-port Gigabit Ethernet GBIC
WS-X6516-GBIC	3.6.0	16-port Gigabit Ethernet GBIC
WS-X6516-GE-TX	3.6.0	16 port 10/100/1000 Base-T Ethernet Switching Module
WS-X6548-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module
WS-X6548-RJ-21	3.6.0	48 port 10/100TX RJ-21 Ethernet/Fast Ethernet Switching Module
WS-X6548-RJ-45	3.6.0	48 port 10/100TX RJ-45 Ethernet/Fast Ethernet Switching Module
WS-X6582-2PA	3.6.0	Enhanced FlexWAN Module;
WS-X6700-CFC	3.6.0	Centralized Forwarding Card
WS-X6704-10GE	3.6.0	4-port 10-Gigabit Ethernet
WS-X6708-10G-3C	3.6.1	C6K 8 port 10 Gigabit Ethernet module with DFC3C (req. X2)
WS-X6708-10GE	3.6.3	C6K 8 port 10 Gigabit Ethernet module with DFC
WS-X6724-SFP	3.6.0	24-port Gigabit Ethernet SFP
WS-X6748-GE-TX	3.6.0	48 port 10/100/1000 RJ-45 Ethernet Switching Module
WS-X6748-SFP	3.6.0	48-port Gigabit Ethernet SFP
WS-X6816-GBIC	3.6.0	16-port Gigabit Ethernet GBIC
WS-X6K-S1A-MSFC2	3.6.1	Catalyst 6000 Supervisor Engine 1A, 2 Gigabit Ethernet, plus MSFC2 and policy feature card (PFC)
WS-X6K-S2-MSFC2	3.6.1	Catalyst 6500 Supervisor Engine-2, 2GE, plus MSFC-2 / PFC-2
WS-X6K-SUP2-2GE	3.6.1	Supervisor 2 with 2 Gigabit Ethernet ports
X2-10GB-SR	3.6.5	10GBASE-SR Serial 850-nm short-reach multimode (MMF)
XENPAK-10GB-ER	3.6.0	10GBASE-ER Serial 1550-nm extended-reach, single-mode fiber (SMF), dispersion-shifted fiber (DSF)
XENPAK-10GB-LR	3.6.4	10 Gigabit Ethernet Serial 1310nm Laser Xenpak Module
XENPAK-10GB-SR	3.6.0	10GBASE-SR Serial 850-nm short-reach multimode fiber (MMF)
XFP-10GLR-OC192SR	3.6.4	OC192 XFP Single Mode Long Reach 2 (80km).

Cisco Catalyst 6500 Series (IOS)—Supported Technologies

The following technologies are supported by the Cisco Catalyst 6500 Series (IOS) in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [ATM, page 7-92](#)
- [HDLC, page 7-98](#)
- [SONET/SDH, page 7-98](#)
- [TDM/DSx, page 7-99](#)
- [MPLS, page 7-103](#)
- [MPLS-TE, page 7-104](#)
- [VPN \(VRF\), page 7-106](#)
- [PWE3, page 7-107](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [LocalSwitching, page 7-112](#)
- [BFD, page 7-113](#)
- [Carrier Ethernet, page 7-114](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

Cisco Catalyst 6500 Series (IOS)—Supported Service Events

Table 7-67 *Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active ip interfaces found	3.6.0	N
All ip interfaces down	3.6.0	N
BGP link down due to admin	3.6.0	N
BGP link down due to oper	3.6.0	N
BGP link down vrf due to admin	3.6.0	N
BGP link down vrf due to oper	3.6.0	N

Table 7-67 **Supported Service Events for Cisco Catalyst 6500 Series (IOS) — Cisco ANA Version 3.7.2 (continued)**

Event Name	ANA Version	Expedited
BGP link up	3.6.0	N
BGP neighbor found	3.6.0	N
BGP neighbor loss due to admin	3.6.0	N
BGP neighbor loss due to oper	3.6.0	N
BGP neighbor loss VRF due to admin	3.6.0	N
BGP neighbor loss VRF due to oper	3.6.0	N
BGP process up	3.6.0	N
Card down	3.6.0	N
Card in	3.6.0	N
Card out	3.6.0	N
Card up	3.6.0	N
CPU utilization exceeded upper threshold	3.6.0	N
CPU utilization less than lower threshold	3.6.0	N
Device Managed	3.6.0	N
Device Partially Managed	3.6.0	N
Device Unsupported	3.6.0	N
Discarded packet rate exceeded upper threshold	3.6.0	N
Discarded packet rate is below lower threshold	3.6.0	N
Dropped packet rate exceeded upper threshold	3.6.0	N
Dropped packet rate is below lower threshold	3.6.0	N
Dual stack IP added	3.6.0	N
Dual stack IP removed	3.6.0	N
High priority member down	3.6.0	N
High Priority MPLS-TE tunnel down	3.6.0	N
Interface status down	3.6.0	N
Interface status up	3.6.0	N
keepalive configured	3.6.0	N
keepalive not configured	3.6.0	N
l2tp peer established	3.6.0	N
l2tp peer is removed	3.6.0	N

Table 7-67 **Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.2 (continued)**

Event Name	ANA Version	Expedited
LAG down	3.6.0	N
LAG Link down	3.6.0	N
LAG Link up	3.6.0	N
LAG up	3.6.0	N
Layer 2 tunnel up	3.6.0	N
LDP neighbor down	3.6.0	N
LDP neighbor up	3.6.0	N
Link down due to admin down	3.6.0	N
Link down due to Card event	3.6.0	N
Link down due to oper down	3.6.0	N
Link down on unreachable	3.6.0	N
Link over utilized	3.6.0	N
Link up	3.6.0	N
Link utilization normal	3.6.0	N
Logical port up	3.6.0	N
Low priority member down	3.6.0	N
Low Priority MPLS-TE tunnel down	3.6.0	N
Management Unreachable	3.6.0	N
Medium priority member down	3.6.0	N
Medium Priority MPLS-TE tunnel down	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Memory utilization less than lower threshold	3.6.0	N
Module Unsupported	3.6.0	N
MPLS Black hole cleared	3.6.0	N
MPLS Black hole found	3.6.0	N
MPLS interface added	3.6.0	N
MPLS interface removed	3.6.0	Y
MPLS TE FRR State Changed to Active	3.6.0	N
MPLS TE FRR State Changed to Ready	3.6.0	N
MPLS-TE tunnel down	3.6.0	N
MPLS-TE tunnel up	3.6.0	N

Table 7-67 **Supported Service Events for Cisco Catalyst 6500 Series (IOS) — Cisco ANA Version 3.7.2 (continued)**

Event Name	ANA Version	Expedited
OSPF Neighbor Down	3.6.0	N
OSPF Neighbor Up	3.6.0	N
Port down due to admin	3.6.0	N
Port down due to Card down	3.6.0	N
Port down due to Card out	3.6.0	N
Port down due to oper	3.6.0	N
Port up	3.6.0	N
Primary HSRP interface active	3.6.0	N
Primary HSRP interface not active	3.6.0	N
rx dormant normal	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Rx utilization is below lower threshold	3.6.0	N
Secondary HSRP interface active	3.6.0	N
Secondary HSRP interface not active	3.6.0	N
Service down	3.6.0	N
Service up	3.6.0	N
Shelf in	3.6.0	N
Shelf out	3.6.7	N
SONET Path down due to Admin	3.6.0	N
SONET Path down due to Card	3.6.0	N
SONET Path down due to Oper	3.6.0	N
SONET Path Link down due to Card event	3.6.0	N
SONET Path Link down on unreachable	3.6.0	N
tx dormant normal	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N
Tx utilization is below lower threshold	3.6.0	N

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 3.7.2, see [Cisco ME 6500 Series Ethernet Switches \(6524\)](#)):

- [Cisco ME 6500 Series \(6524\)—Supported Software Versions, page 7-73](#)
- [Cisco ME 6500 Series \(6524\)—Supported Topologies, page 7-73](#)
- [Cisco ME 6500 Series \(6524\)—Supported Modules, page 7-74](#)
- [Cisco ME 6500 Series \(6524\)—Supported Technologies, page 7-74](#)
- [Cisco ME 6500 Series \(6524\)—Supported Service Events, page 7-75](#)

Cisco ME 6500 Series (6524)—Supported Software Versions

Table 7-68 *Supported Software Versions for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.2*

Software Version	ANA Version
12.2	3.6.0
12.2(18)ZU	3.6.0 ¹
12.2(18)ZU1	3.6.0 ²
12.2(18)ZU2	3.6.0 ³
12.2(33)SXI	3.7 ⁴

^{1,2,3,4}ANA models pluggable ports for this IOS version.

Cisco ME 6500 Series (6524)—Supported Topologies

Table 7-69 *Supported Topologies for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.2*

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
LAG	LAG	3.6.2

Cisco ME 6500 Series (6524)—Supported Modules

Table 7-70 *Supported Modules for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.2*

Module Name	ANA Version	Module Description
ME-C6524GT-8S	3.6.0	32 ports Cisco ME 6524 Ethernet Switch Rev. 1.1
WS-6148A-GE-TX	3.6.0	Catalyst 6500 48 port 10/100/1000BaseTX (RJ-45) module
WS-6148-GE-TX	3.6.0	Catalyst 6000 48 port 10/100/1000BaseT (RJ-45) module

Cisco ME 6500 Series (6524)—Supported Technologies

The following technologies are supported by the Cisco ME 6500 Series (6524) in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [MPLS, page 7-103](#)
- [MPLS-TE, page 7-104](#)
- [VPN \(VRF\), page 7-106](#)
- [PWE3, page 7-107](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [Carrier Ethernet, page 7-114](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

Cisco ME 6500 Series (6524)—Supported Service Events

Table 7-71 Supported Service Events for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.0	Y
All IP Interfaces Down	3.6.0	Y
BGP process up	3.6.0	N
Card Down	3.6.0	Y
Card In	3.6.0	Y
Card Out	3.6.0	Y
Card Up	3.6.0	Y
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N

Cisco Nexus 5000 Series Switches

This section includes the following information about Cisco Nexus 5000 switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco Nexus 5000 Series Switches](#)):

- [Cisco Nexus 5000—Supported Software Versions, page 7-75](#)
- [Cisco Nexus 5000—Supported Topologies, page 7-76](#)
- [Cisco Nexus 5000—Supported Modules, page 7-76](#)
- [Cisco Nexus 5000—Supported Technologies, page 7-76](#)
- [Cisco Nexus 5000—Supported Service Events, page 7-76](#)

Cisco Nexus 5000—Supported Software Versions

Table 7-72 Supported Software Versions for Cisco Nexus 5000—Cisco ANA Version 3.7.2

Software Version	ANA Version
NX-OS 4.1(3)N2(1a))	3.7.2
NX-OS 4.2(1)N2(1)	3.7.2

Cisco Nexus 5000—Supported Topologies

Table 7-73 Supported Topologies for Cisco Nexus 5000—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.7.2
Physical Layer	Physical Layer	3.7.2

Cisco Nexus 5000—Supported Modules

Table 7-74 Supported Modules for Cisco Nexus 5000—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
N5K-C5020P-BF	3.7.2	Cisco Nexus 5000 2RU Chassis no PS, 5 Fan Modules, 40 ports (req SFP+)
N5K-C5020-FAN	3.7.2	Cisco Nexus 5010 Fan Module
N5K-PAC-1200W	3.7.2	Cisco Nexus 5020 PSU module, A/C, 100-240V, 1200W
SFP-10G-LR	3.7.2	10GBASE-LR SFP+ module

Cisco Nexus 5000—Supported Technologies

The following technologies are supported by the Cisco Nexus 5000 in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)

Cisco Nexus 5000—Supported Service Events

Table 7-75 Supported Service Events for Cisco Nexus 5000—Cisco ANA Version 3.7.2

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.2	Y
All IP Interfaces Down	3.7.2	Y
Card Down	3.7.2	Y
Card In	3.7.2	Y

Table 7-75 Supported Service Events for Cisco Nexus 5000—Cisco ANA Version 3.7.2 (continued)

Event Name	ANA Version	Expedited
Card Out	3.7.2	Y
Card Up	3.7.2	Y
CPU utilization exceeded upper threshold	3.7.2	N
Device Unsupported	3.7.2	N
Link down due to admin down	3.7.2	Y
Link down due to Card event	3.7.2	Y
Link down due to oper down	3.7.2	Y
Link up	3.7.2	N
Memory utilization exceeded upper threshold	3.7.2	N
Module Unsupported	3.7.2	N

Cisco Nexus 7000 Series Switches

This section includes the following information about Cisco Nexus 7000 switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco Nexus 7000 Series Switches](#)):

- [Cisco Nexus 7000—Supported Software Versions, page 7-77](#)
- [Cisco Nexus 7000—Supported Topologies, page 7-78](#)
- [Cisco Nexus 7000—Supported Modules, page 7-78](#)
- [Cisco Nexus 7000—Supported Technologies, page 7-79](#)
- [Cisco Nexus 7000—Supported Service Events, page 7-79](#)

Cisco Nexus 7000—Supported Software Versions

Table 7-76 Supported Software Versions for Cisco Nexus 7000—Cisco ANA Version 3.7.2

Software Version	ANA Version
NX-OS 4.2(2)	3.7.1
NX-OS 4.2(3)	3.7.1
NX-OS 4.2(4)	3.7.2
NX-OS 5.0(3)	3.7.2

Cisco Nexus 7000—Supported Topologies

Table 7-77 Supported Topologies for Cisco Nexus 7000—Cisco ANA Version 3.7.2

Topology Type	Link Type	ANA Version
Business	Business	3.7.1
Ethernet	Ethernet	3.7.1
Physical Layer	Physical Layer	3.7.1

Cisco Nexus 7000—Supported Modules

Table 7-78 Supported Modules for Cisco Nexus 7000—Cisco ANA Version 3.7.2

Module Name	ANA Version	Module Description
GLC-SX-MM	3.7.1	1000BASE-SX SFP transceiver module for MMF, 850-nm wavelength
N7K-AC-7.5KW-US	3.7.1	Nexus 7000 - 7.5KW AC Power Supply Module US (cable included)
N7K-C7010-FAB-1	3.7.1	Nexus 7000 - 10 Slot Chassis - 46Gbps/Slot Fabric Module
N7K-C7018-FAB-1	3.7.1	Nexus 7000 - 18 Slot Chassis - 46Gbps/Slot Fabric Module
N7K-C7018-FAN	3.7.1	Nexus 7000 - 18 Slot Fan
N7K-DC-6.0KW	3.7.2	Nexus 7000 - 6.0KW DC Power Supply Module (cable included)
N7K-M108X2-12L	3.7.2	Cisco Nexus 7000 Series 8-Port 10 Gigabit Ethernet Module with XL Option
N7K-M132XP-12	3.7.1	Nexus 7000 - 32 Port 10GbE, 80G Fabric (req. SFP+)
N7K-M148GS-11	3.7.1	Nexus 7000 - 48 Port 1G, SFP, 40G Fabric
N7K-M148GS-11L	3.7.2	Cisco Nexus 7000 Series 48-port Gigabit Ethernet Module with XL Option (req. SFP)
N7K-M148GT-11	3.7.1	Nexus 7000 - 48 Port 10/100/1000, RJ-45, 40G Fabric
N7K-SUP1	3.7.1	Nexus 7000 - Supervisor, Includes External 8GB Log Flash
SFP-10G-LR	3.7.1	Cisco 10GBASE-LR SFP+ Module for SMF
SFP-10G-SR	3.7.1	Cisco 10GBASE-SR SFP+ Module for MMF
SFP-GE-S	3.7.1	1000BASE-Sx Short wavelength gigabit ethernet SFP.

Cisco Nexus 7000—Supported Technologies

The following technologies are supported by the Cisco Nexus 7000 in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [VPN \(VRF\), page 7-106](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [CDP, page 7-116](#)

Cisco Nexus 7000—Supported Service Events

Table 7-79 *Supported Service Events for Cisco Nexus 7000—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.1	Y
All IP Interfaces Down	3.7.1	Y
BGP process up	3.7.1	N
Card Down	3.7.1	Y
Card In	3.7.1	Y
Card Out	3.7.1	Y
Card Up	3.7.1	Y
CPU utilization exceeded upper threshold	3.7.1	N
Device Unsupported	3.7.1	N
Layer 2 Tunnel Down	3.7.1	N
Link up	3.7.1	N
Memory utilization exceeded upper threshold	3.7.1	N
Module Unsupported	3.7.1	N
MPLS Black Hole found	3.7.1	N

Cisco Service Control Engines

This section includes the following information about Cisco SCE switches (for information on the NE types supported in Cisco ANA Version 3.7.2, see [Cisco Service Control Engines](#)):

- [Cisco SCE—Supported Topologies, page 7-80](#)
- [Cisco SCE—Supported Technologies, page 7-80](#)
- [Cisco SCE—Supported Service Events, page 7-80](#)

Cisco SCE—Supported Topologies

Table 7-80 *Supported Topologies for Cisco SCE—Cisco ANA Version 3.7.2*

Topology Type	Link Type	ANA Version
Business	Business	3.7
Ethernet	Ethernet	3.7
Physical Layer	Physical Layer	3.7

Cisco SCE—Supported Technologies

The following technologies are supported by the Cisco SCE in Cisco ANA Version 3.7.2:

- [IP, page 7-82](#)
- [Ethernet, page 7-87](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)

Cisco SCE—Supported Service Events

Table 7-81 *Supported Service Events for Cisco SCE—Cisco ANA Version 3.7.2*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.1	Y
All IP Interfaces Down	3.7.1	Y
BGP process up	3.7.1	N
Card Down	3.7.1	Y
Card In	3.7.1	Y
Card Out	3.7.1	Y
Card Up	3.7.1	Y
CPU utilization exceeded upper threshold	3.7.1	N
Device Unsupported	3.7.1	N
Layer 2 Tunnel Down	3.7.1	N
Link up	3.7.1	N
Memory utilization exceeded upper threshold	3.7.1	N
Module Unsupported	3.7.1	N
MPLS Black Hole found	3.7.1	N

Supported Technologies on Cisco Switches

The following sections list the objects and attributes that are supported on Cisco switches in Cisco ANA Version 3.7.2 per technology:

- [IP, page 7-82](#)
- [Routing Protocols, page 7-84](#)
- [Ethernet, page 7-87](#)
- [ATM, page 7-92](#)
- [Frame Relay, page 7-95](#)
- [PPP, page 7-97](#)
- [HDLC, page 7-98](#)
- [SONET/SDH, page 7-98](#)
- [TDM/DSx, page 7-99](#)
- [MPLS, page 7-103](#)
- [MPLS-TE, page 7-104](#)
- [VPN \(VRF\), page 7-106](#)
- [PWE3, page 7-107](#)
- [Security, page 7-108](#)
- [Hardware, page 7-109](#)
- [Serial, page 7-111](#)
- [Additional Technologies, page 7-112](#)
- [LocalSwitching, page 7-112](#)
- [BFD, page 7-113](#)
- [Carrier Ethernet, page 7-114](#)
- [LLDP, page 7-115](#)
- [CDP, page 7-116](#)
- [Discovery Protocol, page 7-116](#)
- [Ethernet OAM, page 7-117](#)

IP

Table 7-82 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IIPInterface																						
IP Address		Y	Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
IP Interface Addresses Array		Y			Y	Y	Y		Y	Y			Y			Y	Y	Y	Y	Y	Y	Y
Interface Name	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Interface Description						Y	Y		Y	Y	Y		Y			Y		Y	Y	Y	Y	Y
IP Interface State	Y	Y	Y	Y	Y	Y	Y	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		Y ¹						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		Y	Y	Y	Y	Y	Y	
ARP Entity		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	
Routing Table Changes																Y						
Name		Y	Y	Y	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	Y	Y	Y			
IMO Name—IIRoutingEntry																						
Destination IP Subnet		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Table 7-82 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Next Hop IP Address		Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	
Routing Protocol Type		Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	
IMO Name—IARPEntity																						
ARP Table		Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
MAC Address		Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
Entry Type							Y		Y	Y	Y		Y	Y		Y		Y	Y	Y	Y	Y
IMO Name—IIPPool																						
IP Address Pool Entries																						
Name																						
Index																						
IMO Name—IIPRangeBasedIIPoolEntry																						
Start IP Address																						
End IP Address																						
Unused Addresses																						
Used Addresses																						
Reserved Addresses																						
IMO Name—IIPSubnetBasedIIPoolEntry																						
IP Subnet																						
Unused Addresses																						
Used Addresses																						
Reserved Addresses																						
IMO Name—HSRPGGroupEntry																						
Group Number							Y		Y	Y		Y ²		Y ³				Y	Y			
Port Description							Y		Y	Y		Y ⁴		Y ⁵				Y	Y			
Priority							Y		Y	Y		Y ⁶		Y ⁷				Y	Y			
Coupled Router							Y		Y	Y		Y ⁸		Y ⁹				Y	Y			
State							Y		Y	Y		Y ¹⁰		Y ¹¹				Y	Y			
Tracking Interfaces							Y			Y												
Virtual IP Address							Y		Y	Y		Y ¹²		Y ¹³				Y	Y			

Table 7-82 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Virtual MAC Address							Y		Y	Y		Y ¹⁴		Y ¹⁵				Y	Y			
IMO Name—I Tunnel GRE																						
Name									Y			Y ¹⁶		Y ¹⁷	Y	Y		Y	Y			
Tunnel Destination and Source									Y			Y ¹⁸		Y ¹⁹	Y	Y		Y	Y			
IP Address									Y			Y ²⁰		Y ²¹	Y	Y		Y	Y			
IP Interface State														Y				Y	Y			
IANA Type																						
Containing CTPs																						
Contained CTPs																						
Keep Alive Time									Y			Y		Y		Y						
Keep Alive Retry									Y			Y		Y		Y						
IMO Name—IIPSLA Responder Service																						
responderStatus																						
TWAMP Responder Status																						
tcpConnect																						
udpEcho																						
IMO Name—IIP Address Port Pair																						
type																						
ipAddress																						
port																						

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 Supported for 4503E, 4507RE, 4507, and 4506E only.

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

Routing Protocols

Table 7-83 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IBGP Neighbor Entry																						
Remote Identifier						Y	Y		Y	Y		Y ¹		Y ²	Y			Y	Y			
Neighbor Type																						

Table 7-83 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Distributing Interfaces																						
Remote Address						Y	Y		Y	Y		Y ³		Y ⁴	Y			Y	Y			
Remote Autonomous System						Y	Y		Y	Y		Y ⁵		Y ⁶	Y			Y	Y			
Peer State						Y	Y		Y	Y		Y ⁷		Y ⁸	Y			Y	Y			
Peer AdminState									Y													
Hold Time						Y	Y		Y	Y		Y ⁹		Y ¹⁰	Y			Y	Y			
Keep Alive Time						Y	Y		Y	Y		Y ¹¹		Y ¹²	Y			Y	Y			
VrfName																						
Address family						Y																
IMO Name—IospfEntry																						
Area Identifier			Y				Y		Y	Y		Y ¹³		Y ¹⁴	Y			Y	Y			
IP Address			Y				Y		Y	Y		Y ¹⁵		Y ¹⁶	Y			Y	Y			
Type			Y				Y		Y	Y		Y ¹⁷		Y ¹⁸	Y			Y	Y			
Administrative Status			Y				Y		Y	Y		Y ¹⁹		Y ²⁰	Y			Y	Y			
Ospf Entry State			Y				Y		Y	Y		Y ²¹		Y ²²	Y			Y	Y			
IMO Name—IospfProcess																						
Process Id							Y			Y												
OSPF Version							Y			Y												
Router Id							Y			Y												
IMO Name—IospfNeighbor																						
Neighbor Id							Y			Y												
Outgoing Interface							Y			Y												
State							Y			Y												
Neighbor Interface Address							Y			Y												
Area Id							Y			Y												
IMO Name—IospfInterface																						
Area Id							Y			Y												
Network Type							Y			Y												
Cost							Y			Y												
State							Y			Y												
Interface Address													Y	Y					Y	Y		
Type							Y			Y												
IF Priority							Y			Y												
DR Id							Y			Y												

Table 7-83 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
BDR Id							Y			Y												
IMO Name—IISpfTimers																						
Schedule Delay							Y			Y												
Min Hold Time							Y			Y												
Max Wait Time							Y			Y												
IMO Name—IISISProcess																						
ISIS Version							Y			Y												
Manual Area Address							Y			Y												
IS Type							Y			Y												
System Id							Y			Y												
Process Id							Y			Y												
IMO Name—IISISMetric																						
IS Type							Y			Y												
Metric Style							Y			Y												
Metric Value							Y			Y												
Address Family							Y			Y												
IMO Name—IISISInterface																						
Interface Name							Y			Y												
IMO Name—IISISNeighbor																						
IS Type							Y			Y												
System Id							Y			Y												
Admin State							Y			Y												
Hold Time							Y			Y												
SNPA							Y			Y												
Interface Name							Y			Y												
IP Address							Y			Y												
Adress Family							Y			Y												

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11Supported for 4503E, 4507RE, 4507, and 4506E only.

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

Ethernet

Table 7-84 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IM0 Name—ILinkAggregationGroup802dot3ad																						
dot3adAggMACAddress		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggActorSystemPriority		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggActorSystemID		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggActorAdminKey		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggActorOperKey		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggPartnerSystemID		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggPartnerSystemPriority		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggPartnerOperKey		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
dot3adAggCollectorMaxDelay		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
GroupNumber		Y	Y	Y	Y	Y		Y			Y	Y		Y	Y	Y	Y	Y	Y			
AggregationProtocolType		Y	Y	Y	Y	Y		Y			Y	Y		Y	Y	Y	Y	Y	Y			
MacAddress		Y	Y	Y	Y	Y		Y			Y	Y		Y	Y	Y	Y	Y	Y			
ChannelAdminStatus		Y	Y	Y	Y	Y		Y			Y	Y		Y	Y	Y	Y	Y	Y			
ChannelOperStatus		Y	Y	Y	Y	Y		Y			Y	Y		Y	Y	Y	Y	Y	Y			
IM0 Name—IEthernet																						
MAC Address	Y	Y	Y	Y	Y	Y	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																						
Port Type			Y																			
isElmiEnabled									Y									Y				
isLOAMEnabled							Y		Y	Y								Y				
IM0 Name—IVlanInterface																						
Mode			Y		Y	Y	Y	Y	Y	Y		Y ¹		Y	Y		Y	Y	Y			
Native VLAN Identification			Y		Y	Y	Y	Y	Y	Y		Y ²		Y	Y		Y	Y	Y			
Virtual LAN Table																						
IANA Type																			Y			

Table 7-84 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Containing CTPs																						
Contained CTPs																						
vlanAdminType			Y				Y		Y	Y				Y			Y					
vlanencapType			Y				Y		Y	Y				Y			Y					
getAccess																						
Allowed Vlans							Y		Y	Y				Y			Y					
IMO Name—IVlanEncapMux																						
IANA Type								Y	Y													
Containing CTPs																						
Contained CTPs																						
IMO Name—IVlanMapping																						
direction			Y ³						Y									Y	Y			
vlanMatchCriteria			Y ⁴						Y									Y	Y			
vlanRewriteDefinition			Y ⁵						Y									Y	Y			
Drop			Y ⁶						Y									Y	Y			
Vlan			Y ⁷						Y									Y	Y			
innerVlan			Y ⁸						Y									Y	Y			
translatedVlan			Y ⁹						Y									Y	Y			
translatedInnerVlan			Y ¹⁰						Y									Y	Y			
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																						
StpProtocol		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpMaxAge		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
StpHelloTime		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
StpBridgeForwardDelay		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
StpInstanceInfoTable		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
Same as ISystemService																						
StpUplinkFastState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			

Table 7-84 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
StpBackboneFastState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpForwardDelay		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
StpBridgeMaxAge		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
StpBridgeHelloTime		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y			
IM0 Name—IMstService																						
MstProperties		Y						Y								Y						
Same as IStpService		Y						Y								Y						
IM0 Name—IPvstpService																						
UpLinkFast		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y		Y	Y		Y	Y	Y			
BackboneFast		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y		Y	Y		Y	Y	Y			
IM0 Name—IMstProperties																						
MstForceVersion		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
MstCfgIdFmtSel		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
MstExternalRootCost		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
MstMaxInstances		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
MstCfgIdName		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
MstCfgIdRevLevel		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
IM0 Name—IStpInstanceInfo																						
Object Identification																						
StpBridgeId		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
BridgePriority		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
Designated Parent and Root Bridges		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpRootCost		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
IsRoot		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpRootPort		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpPortInfoTable		Y	Y	Y	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	Y		Y	Y		Y	Y	Y			
Vlan Id																						
StpDesignatedBridge		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpDesignatedRoot		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
IM0 Name—IMstInstanceInfo																						
MstVlanIds		Y	Y	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	Y	Y			

Table 7-84 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IPvstpInstanceInfo																						
Protocol Type		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpBridgeMaxAge		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpBridgeHelloTime		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpBridgeForwardDelay		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpProtocolSpecification		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpVlanId		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpForwardDelay		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
StpMaxAge		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
IMO Name—IRstpInstanceInfo																						
StpForceVersion		Y	¹¹	Y	Y	Y	¹²	¹³	¹⁴	¹⁵	Y	Y		Y	Y		Y	¹⁶	Y			
Same as IStpInstanceInfo		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
IMO Name—IStpPortInfo																						
StpPort		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortPriority		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortPathCost		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortEdgePort		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortPointToPoint		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortRole		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpDesignatedPortIdentifier		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpDesignatedBridge		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortIdentifier		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortBpduGuardState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
StpPortBpduFilterState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
IMO Name—IMstPortInfo																						
MstPortHelloTime		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y			Y				
Same as IStpPortInfo		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
IMO Name—IPvstpPortInfo																						
PvstpPortFastState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y				
IMO Name—IEthernetChannel																						
Group Number		Y ¹⁷	Y	Y	Y ¹⁸	Y ¹⁹	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
Bandwidth		Y ²⁰	Y	Y	Y	Y ²¹	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			
Aggregation Protocol		Y ²²	Y	Y	Y ²³	Y ²⁴	Y	Y	Y	Y	Y	Y		Y			Y	Y	Y			

Table 7-84 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IANA Type		Y ²⁵	Y	Y	Y ²⁶	Y ²⁷	Y	Y	Y	Y	Y	Y		Y			Y	Y	Y			
Containing CTPs																						
Contained CTPs																						
Mac Address							Y		Y	Y												
Admin Status							Y		Y	Y							Y					
Oper Status							Y		Y	Y							Y					
IMO Name—ITokenRingLayer2																						
MAC Address																						
IANA Type																						
Containing CTPs																						
Contained CTPs																						
IMO Name—ITokenRingLayer1																						
Same as IPhysicalLayer																						
IMO Name—IVtpService																						
Version	Y	Y	²⁸	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y			
OperatingMode	Y	Y	²⁹	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y			
DomainName		Y	³⁰	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y			
ConfigurationRevision	Y	Y	³¹	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y			
isPruningEnabled	Y	Y	³²	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y			
isAuthenticationEnabled	Y	Y	³³	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y			
IMO Name—IREPService																						
version		Y ³⁴	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
administrativeVlan		Y ³⁵	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
notificationEnabled		Y ³⁶	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
IMO Name—IREPSegmentInfo																						
segmentId		Y ³⁷	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
segmentComplete		Y ³⁸	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
IMO Name—IREPPortInfo																						
portName		Y ³⁹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
portKey		Y ⁴⁰	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
segmentId		Y ⁴¹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
portType		Y ⁴²	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
portRole		Y ⁴³	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
operStatus		Y ⁴⁴	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			

Table 7-84 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
blockedVlans		Y ⁴⁵	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
preemptTimer		Y ⁴⁶	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
lslAgeoutTimer		Y ⁴⁷	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
remoteDeviceName		Y ⁴⁸	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
remoteDeviceMac		Y ⁴⁹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
remotePortName		Y ⁵⁰	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
IMO Name—IBridgeLan																						
Id																						
IMO Name—IIBridgeEntry																						
IS Id																						
IBridge																						
BBridge																						

1, 2, 3, ⁴SNMP is supported on ANA 3.6.0 and later.

5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, ²¹Not Supported on IOS version 12.2(25)SEE2

22, 23, 24, 25, 26, 27, 28, ²⁹Supported on ME3400-E devices only.

30, 44, 45, 46, 47, ⁵⁰CSCti41937

31, 32, 33, 34, 35, ³⁶The MIB provides data by default, but the device does not support VTP.

37, 38, 39, 40, 41, 42, ⁴³SNMP is supported on ANA 3.6.0 and later.

^{48, 49}Supported for 12.2(25)EWA14 only.

ATM

Table 7-85 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IATm																						
ATM Address																						
Interface Type																						
VP and VC Ranges																						
VC Table																		Y				
Cross-Connect Table																						
IANA Type																		Y				
Containing CTPs																						

Table 7-85 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Contained CTPs																						
Tx Allocated Bandwidth																		Y				
Tx Maximum Bandwidth																		Y				
Tx UBR Allocated Bandwidth																		Y				
Tx CBR Allocated Bandwidth																		Y				
Rx Allocated Bandwidth																		Y				
Rx Maximum Bandwidth																		Y				
Rx UBR Allocated Bandwidth																		Y				
Rx CBR Allocated Bandwidth																		Y				
IMO Name—IAtmVc																						
Virtual Channel Identifier																		Y				
Virtual Path Identifier																		Y				
Shaping Profile																						
Discarded and Received Input Data Counters																		Y				
Dropped and Forward Output Data Counters																		Y				
Ingress Traffic Descriptor																		Y				
Egress Traffic Descriptor																		Y				
Administrative Status																		Y				
Operational Status																		Y				
IANA Type																						
Containing CTPs																						
Contained CTPs																						
IMO Name—IAtmTrafficDescriptor																						
Traffic Descriptor Type																		Y				
Service Category																		Y				
Cell Loss Priority																		Y				
Cell Delay Variation																						
Cell Delay Variation Tolerance																		Y				
Maximum High Priority and Aggregate Cell Rates																		Y				
Minimum High Priority and Aggregate Cell Rates																		Y				

Table 7-85 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Sustainable High Priority and Aggregate Cell Rates																		Y				
Peak High Priority and Aggregate Cell Rates																		Y				
Name																						
Index																						
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																						
IMO Name—IVcSwitchingEntity																						
Cross Connect Table																						
crossConnectTableSize																						
Logical Sons																						

Table 7-85 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IIMAGroup																						
AdminStatus																						
OperStatus																						
GroupNumber																						
ImaVersion																						
Speed																						
ConfiguredBandwidth																						
NumberOfLinks																						
NumberOfActiveLinks																						
MinimumNumberOfTxLinks																						
MinimumNumberOfRxLinks																						
ClockMode																						
FrameLength																						
interfaceName																						
groupStatus																						

Frame Relay

Table 7-86 Frame Relay Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—Iframerelay/IFrTrunk																						
Protocol Type																						
VC Table																						
Cross-Connect Table																						
IANA Type																						
Containing CTPs																						
Contained CTPs																						
IMO Name—IfrVc																						
Data Link Connection Identifier																						
Traffic Descriptor																						

Table 7-86 Frame Relay Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Discard and Received Input Data Counters																						
Dropped and Forward Output Data Counters																						
Ingress Traffic Descriptor																						
Egress Traffic Descriptor																						
Administrative Status																						
Operational Status																						
IANA Type																						
Containing CTPs																						
Contained CTPs																						
IMO Name—IfrTrafficDescriptor																						
Committed Rate																						
Excess Burst Rate																						
Name																						
Index																						
IMO Name—IframerelayLogicalPort/Trunk																						
Admin Status																						
Oper Status																						
Same as IFrameRelay																						
IMO Name—IfrTrunkVc																						
Destination Description																						
Same as IFRvc																						
IMO Name—IEncapsulation																						
Virtual Connection Interface																	Y					
Binding Information																						

PPP

Table 7-87 PPP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IVcBasedEncapsulation																						
Virtual Connection																						
Binding Information																						
Binding Status																	Y					
IANA Type																	Y					
Containing CTPs																						
Contained CTPs																						
IMO Name—IMLPPP																						
InterfaceName																						
GroupNumber																						
MTU																						
FragmentDelay																						
FragmentDisable																						
FragmentMaximum																						
FragmentSize																						
Interleave																						
Keepalive																						
KeepaliveTime																						
KeepaliveRetry																						
ActiveLink																						
MinimumConfiguredLink																						
MaximumConfiguredLink																						
LocalMRRU																						
RemoteMRRU																						
LoadThreshold																						
LCPStatus																						
AdminStatus																						
OperStatus																						

HDLC

Table 7-88 HDLC Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—Iencapsulation (HDLC/PPP)																						
Virtual Connection																						
Binding Information																		Y				
Binding Status																		Y				
IANA Type																		Y				
Containing CTPs																						
Contained CTPs																						

SONET/SDH

Table 7-89 SONET/SDH Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IsonetSdh																						
Specific Type																						
Loopback Type																		Y				
Scrambling Mode																		Y				
Same as IPhysicalLayer																						
TCAThresholdB1																						
TCAThresholdB2																						
TCAThresholdB3																						
clocking																						
IMO Name—IDS1PdhChannelized																						
Au4Number																						
Au3Number																						
Sts1Number																						
Tug3Number																						
Tug2Number																						
VtNumber																						
C11Number																						

Table 7-89 SONET/SDH Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
C12Number																						
Vt15Number																						
Vt2Number																						
T1Number																						
E1Number																						
PathType																						
Description																						
IMO Name—ISonetSdhHop																						
Description																						
AppliqueType																						
PathType																						
IMO Name—ISonetSts1																						
Sts1Number																						
IMO Name—ISdhAu4																						
Au4Number																						
IMO Name—ISdhAu3																						
Au3Number																						

TDM/DSx

Table 7-90 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IDS0Bundle																						
Bundled Time Slots																		Y				
Bundle Location																						
IANA Type																		Y				
Containing CTPs																						
Contained CTPs																						
AdminStatus																						
OperStatus																						

Table 7-90 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IDS1Pdh / IDS3Pdh																						
Framing Type																						
Cell Mapping Type																						
Loopback Type																		Y				
Scrambling Mode																		Y				
Same as IPhysicalLayer																						
portDescription																						
internationalBit																						
nationalBits																						
framing																						
lineCode																						
cableLength																						
recoveredClockingId																						
clocking																						
loopback																						
alarmState																						
IMO Name—IClockService																						
ActiveClockSource																						
NcsMode																						
HoldTimeout																						
UseStratum4																						
Mode																						
NcsPriorityList																						
PtpService																						
IMO Name—IClockSource																						
Priority																						
Source																						
Status																						
Type																						
IMO Name—IPtpService																						
Mode																						
ClockId																						
Domain																						
Priority1																						

Table 7-90 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Priority2																						
PtpEnabled																						
PtpInterfaceList																						
IMO Name—IPTpInterface																						
Version																						
AnnounceInterval																						
AnnounceTimeout																						
DestinationAddress																						
SourceAddress																						
DelayReq																						
MasterMode																						
SlaveMode																						
SyncInterval																						
SyncLimit																						
InterfaceXid																						
IMO Name—IACRService																						
RecoveredClockSource																						
RecoveredClockMode																						
CemInterface																						
RecoveredClockList																						
IMO Name—IRecoveredClock																						
ClockId																						
RecoveredClockMode																						
Port																						
Cem																						
Status																						
FrequencyOffset																						
IMO Name—ICEMEncap																						
cemIfName																						
IMO Name—ICEMGroup																						
IdlePattern																						
IdleCAS																						
DeJitter																						
PayloadSize																						

Table 7-90 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
RTP																						
RTPHeader																						
TimeSlots																						
AdminStatus																						
OperStatus																						
IMO Name—ISyncE																						
synchronousMode																						
equipmentClock																						
clockMode																						
ssmOption																						
esmcMode																						
holdOffTimer																						
waitToRestore																						
Revertive																						
IMO Name—ISyncEInterface																						
selectionInput																						
ingressESMCMode																						
egressESMCMode																						
ingressQLMode																						
ingressQuality																						
egressQLMode																						
egressQuality																						
waitToRestore																						
holdOffTimer																						

MPLS

Table 7-91 MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IM0 Name—IMpls																						
Distribution Protocol							Y		Y	Y								Y	Y			
Outer and Inner Labels																						
Traffic Engineering Properties							Y		Y	Y								Y	Y			
Resource reservation Properties																						
IANA Type							Y		Y	Y								Y				
Containing CTPs																						
Contained CTPs																						
IM0 Name—ILse																						
MPLS Table							Y		Y	Y								Y	Y			
MPLS Aggregate Table							Y		Y	Y								Y	Y			
MPLS Tunnel Segments							Y		Y	Y												
LDP Service							Y		Y	Y												
Logical Sons							Y		Y	Y								Y	Y			
IM0 Name—ILdpService																						
Local Identification Status							Y		Y	Y												
LDP Peers							Y		Y	Y								Y	Y			
IM0 Name—ILdpPeer																						
Peer Identification							Y		Y	Y								Y	Y			
Transport Address							Y		Y	Y								Y	Y			
Distribution Method							Y		Y	Y								Y	Y			
Protocol Type							Y		Y	Y												
Path Vector Limit							Y		Y	Y								Y	Y			
Session Status							Y		Y	Y								Y	Y			
Protocol Version Hold Time																		Y	Y			
Hold Time							Y		Y	Y								Y	Y			
Keep Alive Time																		Y	Y			
Peer Discovery Sources							Y		Y	Y								Y	Y			
IM0 Name—ILdpDiscoverySource																						
Interface Name							Y		Y	Y								Y	Y			
Source Address							Y		Y	Y								Y	Y			
Type							Y		Y	Y								Y	Y			

Table 7-91 MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IMplsEntry																						
Incoming Label							Y		Y	Y								Y	Y			
Outgoing Interface and Label							Y		Y	Y								Y	Y			
Switching Action							Y		Y	Y								Y	Y			
Next Hop IP Address							Y		Y	Y								Y	Y			
Destination Mask							Y		Y	Y								Y	Y			
Destination address							Y		Y	Y								Y	Y			
IMO Name—IMplsAggregateEntry																						
Virtual Routing Entity							Y		Y	Y								Y	Y			
Incoming Label							Y		Y	Y								Y	Y			
Outgoing Interface and Label							Y		Y	Y								Y	Y			
Switching Action							Y		Y	Y								Y	Y			
Next Hop IP Address							Y		Y	Y								Y	Y			

MPLS-TE

Table 7-92 MPLS-TE Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IMplsTETunnel																						
Destination Address							Y		Y	Y								Y	Y			
Outgoing Interface and Label							Y		Y	Y								Y	Y			
LSP Identification							Y		Y	Y								Y	Y			
Requested Bandwidth							Y		Y	Y								Y	Y			
Measured Average Burst and Peak Bandwidth							Y		Y	Y								Y	Y			
Setup and Hold Priority							Y		Y	Y								Y	Y			
Affinity Bits and Mask							Y		Y	Y								Y	Y			
Automatic Route Announcement Status							Y		Y	Y								Y	Y			
Optimization Lock Down Status							Y		Y	Y								Y	Y			
Path Option							Y		Y	Y								Y	Y			

Table 7-92 MPLS-TE Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Name							Y		Y	Y								Y	Y			
Description							Y		Y	Y								Y	Y			
Administrative Status							Y		Y	Y								Y	Y			
Operational Status							Y		Y	Y								Y	Y			
IANA Type							Y		Y	Y								Y	Y			
is FRR Enabled							Y			Y												
IMO Name—IMplsTEProperties																						
Administrative Weight							Y		Y	Y								Y	Y			
Attributes Identifier																			Y			
Signaling Protocol							Y		Y	Y								Y				
Available Physical and Reservable Bandwidth							Y		Y	Y								Y	Y			
Reserved Bandwidth							Y		Y	Y								Y	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			
LSP Identification									Y									Y	Y			
Name									Y									Y	Y			
FRRTunnelName							Y			Y												
FRRTunnelState							Y			Y												
AverageBandwidth									Y									Y	Y			
In Interface									Y									Y	Y			
Out interface									Y									Y	Y			
In Label									Y									Y	Y			
Out Label									Y									Y	Y			
Source address									Y									Y	Y			
Destination address									Y									Y	Y			

VPN (VRF)

Table 7-93 VPN (VRF) Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IVrf																						
Virtual Routing Table						Y	Y		Y	Y								Y	Y		Y	
Exported Route Targets						Y	Y		Y	Y								Y	Y			
Imported Route Targets						Y	Y		Y	Y								Y	Y			
Route Distinguisher						Y	Y		Y	Y								Y	Y			
ARP Entity						Y	Y		Y	Y								Y	Y		Y	
Name						Y	Y		Y	Y								Y	Y		Y	
Logical Sons						Y	Y		Y	Y								Y	Y			
Description							Y			Y												
Import Route-Map							Y			Y												
Export Route-Map							Y			Y												
IMO Name—IVrfEntry																						
Next Hop BGP Address						Y	Y		Y	Y								Y	Y			
Incoming and Outgoing Inner Label						Y	Y		Y	Y								Y	Y			
Outer Label						Y	Y		Y	Y								Y	Y			
Destination IP Subnet						Y	Y		Y	Y								Y	Y		Y	
Next Hop IP Address						Y	Y		Y	Y								Y	Y		Y	
Type						Y	Y		Y	Y								Y	Y			
Routing Protocol Type						Y	Y		Y	Y								Y	Y		Y	
Outgoing Interface Name						Y	Y		Y	Y								Y	Y		Y	
IMO Name—IMpBgp																						
BGP Identifier						Y	Y		Y	Y		Y		Y	Y			Y	Y			
Local Autonomous System						Y	Y		Y	Y		Y		Y	Y			Y	Y			
Cross Virtual Routing Table							Y		Y	Y												
BGP Neighbors						Y	Y		Y	Y		Y		Y	Y				Y			
Logical Sons						Y	Y		Y	Y								Y	Y			
IMO Name—ICrossVrf																						
Virtual Routing Entries							Y		Y	Y												
Virtual Routing Entity Name							Y		Y	Y												

Table 7-93 VPN (VRF) Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—I CrossVrfRoutingEntry																						
Outgoing Virtual Routing Entity Identifier																						
Incoming and Outgoing Virtual Routing Tags																						
Destination IP Subnet							Y		Y	Y								Y	Y			
Next Hop IP Address							Y		Y	Y								Y	Y			
Type							Y		Y	Y								Y	Y			
Routing Protocol Type							Y		Y	Y								Y	Y			
Outgoing Interface Name																						

PWE3

Table 7-94 PWE3 Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IPTPLayer2MplsTunnel																						
Local and Remote Router Addresses							Y		Y	Y								Y	Y			
Local and Remote Virtual Connection Labels							Y		Y	Y								Y	Y			
Tunnel Identification							Y		Y	Y								Y	Y			
Tunnel Status							Y		Y	Y								Y	Y			
Local and Remote Tunnel Interface																			Y			
IANA Type							Y		Y	Y								Y	Y			
Containing CTPs																						
Contained CTPs																						
PseudowireType							Y		Y	Y								Y				
PreferredPathTunnel							Y		Y	Y								Y				
LocalMTU							Y		Y	Y								Y				
RemoteMTU							Y		Y	Y								Y				
PeerStatus							Y		Y	Y								Y				

Table 7-94 *PWE3 Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)*

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
SignalingProtocol							Y		Y	Y								Y				
VFIName							Y		Y	Y								Y				

Security

Table 7-95 *Security Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2*

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IAccessList																						
Type		Y	Y				Y		Y	Y		Y ¹		Y ²	Y			Y	Y			
Access List Entries		Y	Y				Y		Y	Y		Y ³		Y ⁴	Y			Y	Y			
Name or Id		Y	Y				Y		Y	Y		Y ⁵		Y ⁶	Y			Y	Y			
Index		Y	Y				Y		Y	Y		Y ⁷		Y ⁸	Y			Y	Y			
IMO Name—IAccessListEntry																						
Entry Identification		Y	Y				Y		Y	Y		Y ⁹		Y ¹⁰	Y			Y	Y			
Action Logic		Y	Y				Y		Y	Y		Y ¹¹		Y ¹²	Y			Y	Y			
Source and Destination Address		Y	Y				Y		Y	Y		Y ¹³		Y ¹⁴	Y			Y	Y			
Source and Destination Wildcard		Y	Y				Y		Y	Y		Y ¹⁵		Y ¹⁶	Y			Y	Y			
Protocol Type		Y	Y				Y		Y	Y		Y ¹⁷		Y ¹⁸	Y			Y	Y			
Source and Destination Port Ranges		Y	Y				Y		Y	Y		Y ¹⁹		Y ²⁰	Y			Y	Y			
Source and Destination Port Action		Y	Y				Y		Y	Y		Y ²¹		Y ²²	Y			Y	Y			
Protocol Specific Info		Y	Y				Y		Y	Y		Y ²³		Y ²⁴	Y			Y	Y			
Differential Services Code Points		Y	Y				Y		Y	Y		Y ²⁵		Y ²⁶	Y			Y	Y			
Type of Service		Y	Y				Y		Y	Y		Y ²⁷		Y ²⁸	Y			Y	Y			
Precedence		Y	Y				Y		Y	Y		Y ²⁹		Y ³⁰	Y			Y	Y			
Matches		Y	Y				Y		Y	Y		Y ³¹		Y ³²	Y			Y	Y			

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16Supported for 4503E, 4507RE, 4507, and 4506E only.

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

Hardware

Table 7-96 Hardware Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IChassis																						
Description			Y ¹			Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
Equipment Holder Type				Y			Y		Y	Y	Y	Y	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	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	Y	Y	Y	Y	Y	Y	Y
Module Description			Y	Y	Y	Y	Y ²	Y	Y	Y ³		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	Y	Y	Y	Y	Y	Y
Operational Status		Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
Managed IP Address																						
Redundant Equipment																						
Configured Redundancy												Y								Y	Y	
Redundancy Status				Y	Y	Y		Y				Y	Y					Y	Y	Y	Y	
Operational Status Last Changed			Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	
Supported Physical Termination Points			Y									Y	Y	Y	Y			Y	Y			
Serial Number (soft property)		Y	Y		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Slots Number																						Y
IMO Name—IManagedElement																						
IP Address		Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
Investigation State		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Table 7-96 Hardware Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Element Category		Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
Device Name		Y	Y	Y	Y	Y	Y ⁴	Y	Y	Y ⁵	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	Y	Y	Y	Y	Y	Y	Y
System Description	Y	Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y
Software Version	Y	Y	Y	Y	Y	Y	Y	Y	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	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	Y	Y	Y	Y	Y	Y	
DRAM Free	Y	Y	Y	Y		Y	Y	Y	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	Y	Y	Y	Y	Y	Y		Y	
Flash Device Size		Y	Y	Y		Y		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	Y	Y	Y	Y	Y		Y	
Processor DRAM		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	
Sys Contact	Y	Y	Y	Y		Y	Y	Y	Y	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	Y	Y		Y	Y	Y	Y	Y	Y
Serial Number		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
File Systems																						
IMO Name—IContext																						
Name					Y	Y			Y				Y						Y			
Bounded Connections																						
IP Address Pools																						
Forwarding Components List																						
Traffic Descriptors List																						
Tunnel Containers List																						
Data Link Aggregation Containers List																						
IMO Name—ISystemService																						
Type																						
Status																						
Up Time		Y	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		Y	Y	Y			
Type		Y	Y		Y	Y	Y			Y		Y		Y	Y		Y	Y	Y			

Table 7-96 Hardware Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
MAC Address		Y	Y		Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	Y			
IP Interface		Y			Y	Y	Y			Y	Y	Y				Y		Y	Y			
Name		Y	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			
Vlan Type			Y																			
IMO Name—IBridgeEntry																						
Destination MAC		Y	Y		Y	Y	Y			Y	Y	Y		Y	Y		Y	Y	Y			
Outgoing Interface			Y				Y			Y				Y	Y		Y	Y	Y			

¹Supported for 12.2(50)SE only.^{2,4}"show interfaces switchport" command will be used to get PortMode^{3,5}Device Name is Mapped to Element Name in GUI

Serial

Table 7-97 Serial Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IPhysicalLayer																						
Media Type		Y	Y	Y	Y	Y		Y	Y			Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
Clocking Source													Y					Y	Y			
Maximum Speed	Y	Y	Y	Y	Y	Y		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	Y	Y	Y	
Discarded Bandwidth																						
Dropped Bandwidth																						
Input Bandwidth																						
Output Bandwidth																						
Discarded and Received Input Data Counters		Y		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	Y			
Administrative Status	Y	Y	Y	Y	Y	Y		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	Y	Y	Y	Y	Y	Y

Table 7-97 Serial Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
Last Changed	Y	Y		Y	Y	Y		Y	Y		Y	Y	Y			Y	Y	Y	Y			Y
IANA Type		Y		Y	Y	Y		Y	Y			Y	Y				Y	Y	Y			
Containing CTPs																						
Contained CTPs																						
Port Alias	Y	Y	Y	Y		Y		Y	Y		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	Y	Y	Y	Y	Y	Y	Y
Sending Alarms	Y	Y	Y	Y		Y		Y	Y		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	Y	Y	Y	Y	
Part ID		Y	Y	Y		Y		Y	Y		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
Connector Serial Num		Y	Y	Y		Y		Y	Y		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
Product		Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
Status		Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Managed		Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Ipcore	Y																					

Additional Technologies

Table 7-98 Additional Technologies Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—POS																						
POS			Y		Y	Y			Y					Y	Y			Y	Y			

LocalSwitching

Table 7-99 LocalSwitching Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—ILocalSwitchingEntity																						
LocalSwitchingTable									Y									Y				

Table 7-99 LocalSwitching Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
PWSwitchingTable																						
IMO Name—ILocalSwitchingEntry																						
Local Switching Entry Key									Y									Y				
Local Switching Entry Status									Y									Y				
Segment 1									Y									Y				
Segment 1 Port Name									Y									Y				
Segment 1 Status									Y									Y				
Segment 2									Y									Y				
Segment 2 Port Name									Y									Y				
Segment 2 Status									Y									Y				

BFD

Table 7-100 BFD Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IBfdService																						
Status							Y		Y	Y								Y				
IMO Name—IBfdSession																						
SourceIp							Y		Y	Y								Y				
DestinationIp							Y		Y	Y								Y				
Interval							Y		Y	Y								Y				
Multiplier							Y		Y	Y								Y				
Protocol							Y		Y	Y								Y				
State							Y		Y	Y								Y				
Interface							Y		Y	Y								Y				
Process							Y		Y	Y								Y				

Carrier Ethernet

Table 7-101 Carrier Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IVsi																						
vsiInstanceName																		Y	Y			
vpnId																		Y	Y			
discoveryMode																		Y	Y			
vsiMode																		Y	Y			
Operational state																		Y	Y			
Administrative state																		Y	Y			
IMO Name—IPseudowireProperties																						
isSplitHorizonEnabled																		Y				
isAutoDiscovered																		Y				
IMO Name—IVLANTaggedInterface																						
InterfaceName																		Y				
Inner Vlan Id																		Y				
Outer Vlan Id																		Y				
Encap Type																		Y				
Operational state																		Y				
Administrative state																		Y				
ConfiguredDescription																		Y				
IMO Name—IEfp																						
EfpId							Y			Y								Y ¹				
RewriteParams																		Y ²				
EncapsParams							Y			Y								Y ³				
AdminStatus							Y			Y								Y ⁴				
OperStatus							Y			Y								Y ⁵				
SplitHorizonGroup																		Y ⁶				
MatchCriteria							Y			Y								Y ⁷				
ConfiguredDescription																		Y				
GetServiceInstanceId							Y			Y								Y ⁸				
SetServiceInstanceId							Y			Y								Y ⁹				

1, 2, 3, 4, 5, 6, 7, 8, 9SNMP is used with versions greater than SRD.

LLDP

Table 7-102 LLDP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMo Name—ILDPService																						
status		Y ¹	Y ²				Y	Y	Y ³	Y		Y ⁴		Y ⁵	Y				Y ⁶			
lldpAdvertisementsInterval		Y ⁷	Y ⁸				Y	Y	Y ⁹	Y		Y ¹⁰		Y ¹¹	Y				Y ¹²			
lldpHoldTime		Y ¹³	Y ¹⁴				Y	Y	Y ¹⁵	Y		Y ¹⁶		Y ¹⁷	Y				Y ¹⁸			
lldpReinitialisationDelay		Y ¹⁹	Y ²⁰				Y	Y	Y ²¹	Y		Y ²²		Y ²³	Y				Y ²⁴			
localChassisID		Y ²⁵	Y ²⁶				Y	Y	Y ²⁷	Y		Y ²⁸		Y ²⁹	Y				Y ³⁰			
localSystemName		Y ³¹	Y ³²				Y	Y	Y ³³	Y		Y ³⁴		Y ³⁵	Y				Y ³⁶			
IMo Name—ILDPNeighbor																						
localPortName		Y ³⁷	Y ³⁸				Y	Y	Y ³⁹	Y		Y ⁴⁰		Y ⁴¹	Y				Y ⁴²			
remotePortDesc		Y ⁴³	Y ⁴⁴				Y	Y	Y ⁴⁵	Y		Y ⁴⁶		Y ⁴⁷	Y				Y ⁴⁸			
remoteChassisId		Y ⁴⁹	Y ⁵⁰				Y	Y	Y ⁵¹	Y		Y ⁵²		Y ⁵³	Y				Y ⁵⁴			
remoteManagementIP		Y ⁵⁵	Y ⁵⁶				Y	Y	Y ⁵⁷	Y		Y ⁵⁸		Y ⁵⁹	Y				Y ⁶⁰			
localPortId		Y ⁶¹	Y ⁶²				Y	Y	Y ⁶³	Y		Y ⁶⁴		Y ⁶⁵	Y				Y ⁶⁶			
remotePortId		Y ⁶⁷	Y ⁶⁸				Y	Y	Y ⁶⁹	Y		Y ⁷⁰		Y ⁷¹	Y				Y ⁷²			
remoteDeviceId		Y ⁷³	Y ⁷⁴				Y	Y	Y ⁷⁵	Y		Y ⁷⁶		Y ⁷⁷	Y				Y ⁷⁸			

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78 LLDP links are not modeled properly on IOS version 12.2(51) and earlier IOS versions that support LLDP. This is because the IOS displays the port description in place of local port ID in LLDP Neighbor Table.

CDP

Table 7-103 CDP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—ICdpService																						
cdpHoldtime		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
cdpMessageInterval		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
cdpDeviceId		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
cdpState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
cdpVersion		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
IMO Name—ICdpNeighbor																						
remoteDeviceId	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
remotePortId	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
remoteIPAddress	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	
localPortId	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	

Discovery Protocol

Table 7-104 Discovery Protocol Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—IDiscoveryProtocol																						
DiscoveryProtocolType	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			
Info	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y			

Ethernet OAM

Table 7-105 Ethernet OAM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
IMO Name—ICfmService																						
cacheSize			Y						Y									Y	Y			
maximumCacheSize			Y						Y									Y	Y			
holdTime			Y						Y									Y	Y			
version			Y						Y									Y	Y			
maintenanceIntermediatePointsTable			Y						Y									Y	Y			
maintenanceDomain			Y						Y									Y	Y			
IMO Name—IMaintenanceDomain																						
name			Y						Y									Y	Y			
level			Y						Y									Y	Y			
Id			Y						Y									Y	Y			
maintenanceAssociation			Y						Y									Y	Y			
IMO Name—IMaintenanceEndPoint																						
macAddress			Y						Y									Y	Y			
Interface			Y						Y									Y	Y			
continuityCheckStatus			Y						Y									Y	Y			
direction			Y						Y									Y	Y			
IMO Name—IMaintenanceAssociation																						
name			Y						Y									Y	Y			
associationType			Y						Y									Y	Y			
maximalMeps			Y						Y									Y	Y			
continuityCheckInterval			Y						Y									Y	Y			
continuityCheckEnable			Y						Y									Y	Y			
crossCheckEnable			Y						Y									Y	Y			
direction			Y						Y									Y	Y			
bridge			Y						Y									Y	Y			
maintenanceEndPoints			Y						Y									Y				
cfmRemoteMaintenanceEndPoints			Y						Y									Y	Y			
IMO Name—IMaintenanceIntermediatePoint																						
level			Y						Y									Y	Y			

Table 7-105 Ethernet OAM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
cfmInterface			Y						Y									Y	Y			
isAutocreated			Y						Y									Y	Y			
Vlans			Y						Y									Y	Y			
macAddress			Y						Y									Y	Y			
IMO Name—IRemoteMaintenanceEndPoint																						
mepId			Y						Y									Y	Y			
macAddress			Y						Y									Y	Y			
level			Y						Y									Y	Y			
maintenanceEndPointStatus			Y						Y									Y	Y			
maintenanceEndPointOid			Y						Y									Y	Y			
IMO Name—IOAMData																						
adminState			Y				Y		Y	Y								Y				
pduMaxRate			Y				Y		Y	Y								Y				
pduMinRate			Y				Y		Y	Y								Y				
linkTimeout			Y				Y		Y	Y								Y				
highThresholdAction			Y				Y		Y	Y								Y				
linkFaultAction			Y				Y		Y	Y								Y				
dyingGaspAction			Y				Y		Y	Y								Y				
criticalEventAction			Y				Y		Y	Y								Y				
mode			Y				Y		Y	Y								Y				
unidirectional			Y				Y		Y	Y								Y				
linkMonitor			Y				Y		Y	Y								Y				
remoteLoopback			Y				Y		Y	Y								Y				
portStatus			Y				Y		Y	Y								Y				
loopbackStatus			Y				Y		Y	Y								Y				
remoteData			Y				Y		Y	Y								Y				
name			Y				Y		Y	Y								Y				
ethernetPort			Y				Y		Y	Y								Y				
IMO Name—IOAMRemoteData																						
macAddress			Y				Y		Y	Y								Y				
vendor			Y				Y		Y	Y								Y				
mode			Y				Y		Y	Y								Y				
unidirection			Y				Y		Y	Y								Y				
linkMonitor			Y				Y		Y	Y								Y				

Table 7-105 Ethernet OAM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.2 (continued)

Attribute	1900	2900	ME3400	3500	3550	3560	ME 3600X	3750	3750ME	ME 3800X	4000	4500	ACE 4700	4900	4924ME	5000	6500 CatOS	6500 IOS	6524ME	Nexus 5000	Nexus 7000	SCE
remoteLoopback			Y				Y		Y	Y								Y				
IMO Name—IUNIProperties																						
UNIIId			Y						Y									Y				
isServiceMultiplexing			Y						Y									Y				
isBundlingEnabled			Y						Y									Y				
bundlingType			Y						Y									Y				
IMO Name—IEthernetLMI																						
isGlobalEnabled			Y ¹						Y ²													
mode			Y ³						Y ⁴													
ELMIInterfaces			Y						Y									Y				
deviceEVCs			Y						Y									Y				
IMO Name—IDeviceEVC																						
EVCName			Y						Y									Y				
EVCStatus			Y						Y									Y				
EVCType			Y						Y									Y				
cfmMaName			Y						Y									Y				
configuredRemoteUNICount			Y						Y									Y				
activeRemoteUNICount			Y						Y									Y				
UNIIInterfaces			Y						Y									Y				
IMO Name—IUNIIInterfaces																						
UNIStatus			Y						Y									Y				
UNIIId			Y						Y									Y				
interfaceName			Y						Y									Y				
vlanList			Y						Y									Y				
lmiLinkStatus			Y						Y									Y				
IMO Name—IELMIInterfaces																						
interfaceName			Y						Y									Y				
T391			Y						Y									Y				
T392			Y						Y									Y				
N391			Y						Y									Y				
N393			Y						Y									Y				

^{1, 2, 3, 4}Supported from IOS version 12.2(35)SE onwards

