



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 3.7.1. For more information about the objects and attributes described in this chapter, see Part 2: Technology Support and Information Model Objects.

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 7-10](#)
- [Cisco Catalyst 3550 Series Switches, page 7-12](#)
- [Cisco Catalyst 3560 Series Switches, page 7-15](#)
- [Cisco ME 3600X Ethernet Access Switch, page 7-18](#)
- [Cisco Catalyst 3750 Series Switches, page 7-21](#)
- [Cisco Catalyst 3750 Metro Series Switches, page 7-24](#)
- [Cisco ME 3800X Carrier Ethernet Switches, page 7-29](#)
- [Cisco Catalyst 4000 Series Switches, page 7-33](#)
- [Cisco Catalyst 4500 Series Switches, page 7-36](#)
- [Cisco ACE 4700 Series Access Control Engine, page 7-43](#)
- [Cisco Catalyst 4900 Series Switches, page 7-49](#)
- [Cisco ME 4900 Series Ethernet Switch, page 7-57](#)
- [Cisco Catalyst 5000 Series Switches, page 7-63](#)
- [Cisco Catalyst 6500 Series \(CatOS\) Switches, page 7-65](#)
- [Cisco Catalyst 6500 Series \(IOS\) Switches, page 7-70](#)
- [Cisco ME 6500 Series Ethernet Switches \(6524\), page 7-82](#)
- [Cisco Nexus 7000 Series Switches, page 7-85](#)
- [Cisco Service Control Engines, page 7-87](#)
- [Supported Technologies on Cisco Switches, page 7-89](#)

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 3.7.1, 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 3.7.1*

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 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Catalyst 1900—Supported Service Events

Table 7-3 Supported Service Events for Catalyst 1900—Cisco ANA Version 3.7.1

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 3.7.1, 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 Commands, page 7-6](#)

Cisco Catalyst 2900 Series—Supported Software Versions

Table 7-4 *Supported Software Versions for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.1*

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 3.7.1*

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 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 2900 Series—Supported Service Events

Table 7-7 Supported Service Events for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.1

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 Catalyst 2900 Series—Supported Commands

Table 7-8 *Supported Commands for Cisco Catalyst 2900 Series—Cisco ANA Version 3.7.1*

Command	ANA Version
Show REP Segment Information	3.7

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 3.7.1, 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 7-8
- [Cisco ME 3400 Series—Supported Technologies](#), page 7-8
- [Cisco ME 3400 Series—Supported Service Events](#), page 7-9
- [Cisco ME 3400 Series—Supported Commands](#), page 7-9

Cisco ME 3400 Series—Supported Software Versions

Table 7-9 *Supported Software Versions for Cisco ME 3400 Series—Cisco ANA Version 3.7.1*

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

Table 7-9 **Supported Software Versions for Cisco ME 3400 Series—Cisco ANA Version 3.7.1**

Software Version	ANA Version
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

^{1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 17, 18, 19, 20, 21}ANA 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 7-10 **Supported Topologies for Cisco ME 3400 Series—Cisco ANA Version 3.7.1**

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 7-11 *Supported Modules for Cisco ME 3400 Series—Cisco ANA Version 3.7.1*

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.
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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)
- [Ethernet OAM, page 7-126](#)

Cisco ME 3400 Series—Supported Service Events

Table 7-12 Supported Service Events for Cisco ME 3400 Series—Cisco ANA Version 3.7.1

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
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 ME 3400 Series—Supported Commands

Table 7-13 Supported Commands for Cisco ME 3400 Series—Cisco ANA Version 3.7.1

Command	ANA Version
CFM Configure Domain	3.7
CFM Configure Global Params	3.7
CFM Configure MIP	3.7
CFM Define Continuity Check	3.7
CFM Configure ServiceID	3.7
CFM Configure MEP	3.7
CFM Enable Continuity Check	3.7
CFM Enable SNMP Server Traps	3.7
CFM Diag MEP Status	3.7
CFM CrossCheck Status	3.7
CFM Diag Ping MAC	3.7
CFM Diag Ping MPID	3.7

Table 7-13 **Supported Commands for Cisco ME 3400 Series—Cisco ANA Version 3.7.1 (continued)**

Command	ANA Version
CFM Diag Ping Multicast	3.7
CFM Diag MAC TraceRoute	3.7
CFM Diag MPID TraceRoute	3.7
CFM Configure MEP	3.7 ¹
Enable E-LMI Global	3.7
Configure MultiPoint To MultiPoint or Point To Point EVC	3.7
Configure UNI in an Interface	3.7
Enable E-LMI on Interface	3.7
Configure Service Instance Vlan Id on Interface	3.7
Apply Template on Interface	3.7
Create Template on Interface	3.7
Disable OAM on Interface	3.7
Enable OAM on Interface	3.7
Configure OAM Parameter on Interface	3.7
Start Remote Loopback	3.7
Stop Remote Loopback	3.7
Show REP Segment Information	3.7

¹ Specific to IOS 12.2(53)SE.

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 3.7.1, see [Cisco Catalyst 3500 XL Series Switches](#)):

- [Cisco Catalyst 3500 XL Series—Supported Software Versions, page 7-11](#)
- [Cisco Catalyst 3500 XL Series—Supported Topologies, page 7-11](#)
- [Cisco Catalyst 3500 XL Series—Supported Modules, page 7-11](#)
- [Cisco Catalyst 3500 XL Series—Supported Technologies, page 7-11](#)
- [Cisco Catalyst 3500 XL Series—Supported Service Events, page 7-12](#)

Cisco Catalyst 3500 XL Series—Supported Software Versions

Table 7-14 Supported Software Versions for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.1

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

Cisco Catalyst 3500 XL Series—Supported Topologies

Table 7-15 Supported Topologies for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.1

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 7-16 Supported Modules for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.1

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 3500 XL Series—Supported Service Events

Table 7-17 *Supported Service Events for Cisco Catalyst 3500 XL Series—Cisco ANA Version 3.7.1*

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

- [Cisco Catalyst 3550 Series—Supported Software Versions](#), page 7-13
- [Cisco Catalyst 3550 Series—Supported Topologies](#), page 7-13
- [Cisco Catalyst 3550 Series—Supported Technologies](#), page 7-13
- [Cisco Catalyst 3550 Series—Supported Service Events](#), page 7-14

Cisco Catalyst 3550 Series—Supported Software Versions

Table 7-18 *Supported Software Versions for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.1*

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 7-19 *Supported Topologies for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 3550 Series—Supported Service Events

Table 7-20 *Supported Service Events for Cisco Catalyst 3550 Series—Cisco ANA Version 3.7.1*

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

- [Cisco Catalyst 3560 Series—Supported Software Versions, page 7-15](#)
- [Cisco Catalyst 3560 Series—Supported Topologies, page 7-15](#)
- [Cisco Catalyst 3560 Series—Supported Modules, page 7-16](#)
- [Cisco Catalyst 3560 Series—Supported Technologies, page 7-16](#)
- [Cisco Catalyst 3560 Series—Supported Service Events, page 7-17](#)
- [Cisco Catalyst 3560 Series—Supported Commands, page 7-17](#)

Cisco Catalyst 3560 Series—Supported Software Versions

Table 7-21 *Supported Software Versions for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.1*

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 7-22 *Supported Topologies for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.1*

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 7-23 *Supported Modules for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [VPN \(VRF\), page 7-114](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 3560 Series—Supported Service Events

Table 7-24 Supported Service Events for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.1

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 3560 Series—Supported Commands

Table 7-25 Supported Commands for Cisco Catalyst 3560 Series—Cisco ANA Version 3.7.1

Command	ANA Version
Show REP Segment Information	3.7

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 3.7.1, see [Cisco ME 3600X Ethernet Access Switch](#)):

- [Cisco ME 3600X—Supported Software Versions](#), page 7-18
- [Cisco ME 3600X—Supported Topologies](#), page 7-18
- [Cisco ME 3600X—Supported Modules](#), page 7-19
- [Cisco ME 3600X—Supported Technologies](#), page 7-20
- [Cisco ME 3600X—Supported Service Events](#), page 7-21

Cisco ME 3600X—Supported Software Versions

Table 7-26 *Supported Software Versions for Cisco ME 3600X—Cisco ANA Version 3.7.1*

Software Version	ANA Version
IOS 12.2(52)EY	3.7.1

Cisco ME 3600X—Supported Topologies

Table 7-27 *Supported Topologies for Cisco ME 3600X—Cisco ANA Version 3.7.1*

Topology Type	Link Type	ANA Version
BGP	BGP	3.7.1
Ethernet	Ethernet	3.7.1
MPLS	MPLS	3.7.1
PPP/HDLC	PPP or HDLC	3.7.1
LAG	LAG	3.7.1

Cisco ME 3600X—Supported Modules

Table 7-28 Supported Modules for Cisco ME 3600X—Cisco ANA Version 3.7.1

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
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	Long wavelength gigabit ethernet SFP
GLC-SX-MM	3.7.1	Short wavelength 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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [MPLS, page 7-111](#)
- [MPLS-TE, page 7-113](#)
- [VPN \(VRF\), page 7-114](#)
- [PWE3, page 7-116](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [BFD, page 7-122](#)
- [Carrier Ethernet, page 7-123](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)
- [Ethernet OAM, page 7-126](#)

Cisco ME 3600X—Supported Service Events

Table 7-29 *Supported Service Events for Cisco ME 3600X—Cisco ANA Version 3.7.1*

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

- [Cisco 3750 Series—Supported Software Versions, page 7-22](#)
- [Cisco 3750 Series—Supported Topologies, page 7-22](#)
- [Cisco 3750 Series—Supported Technologies, page 7-22](#)
- [Cisco 3750 Series—Supported Service Events, page 7-23](#)
- [Cisco 3750 Series—Supported Commands, page 7-23](#)

Cisco 3750 Series—Supported Software Versions

Table 7-30 *Supported Software Versions for Cisco 3750 Series—Cisco ANA Version 3.7.1*

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 7-31 *Supported Topologies for Cisco 3750 Series—Cisco ANA Version 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco 3750 Series—Supported Service Events

Table 7-32 Supported Service Events for Cisco 3750 Series—Cisco ANA Version 3.7.1

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
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

Cisco 3750 Series—Supported Commands

Table 7-33 Supported Commands for Cisco 3750 Series—Cisco ANA Version 3.7.1

Command	ANA Version
Show REP Segment Information	3.7

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

- [Cisco Catalyst 3750 Metro Series—Supported Software Versions, page 7-24](#)
- [Cisco Catalyst 3750 Metro Series—Supported Topologies, page 7-25](#)
- [Cisco Catalyst 3750 Metro Series—Supported Modules, page 7-25](#)
- [Cisco Catalyst 3750 Metro Series—Supported Technologies, page 7-26](#)
- [Cisco Catalyst 3750 Metro Series—Supported Service Events, page 7-27](#)
- [Cisco Catalyst 3750 Metro Series—Supported Commands, page 7-28](#)

Cisco Catalyst 3750 Metro Series—Supported Software Versions

Table 7-34 *Supported Software Versions for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.1*

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

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

^{11, 12, 13, 14}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 7-35 Supported Topologies for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.1

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 7-36 Supported Modules for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.1

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
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
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
ME-C3750-24TE-FAN 0	3.7 ¹	Fan Module for ME-C3750-24TE

¹Tested by John C (Refer bug CSCtg86953)

Cisco Catalyst 3750 Metro Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 3750 Metro Series in Cisco ANA Version 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [MPLS, page 7-111](#)
- [MPLS-TE, page 7-113](#)
- [VPN \(VRF\), page 7-114](#)
- [PWE3, page 7-116](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [LocalSwitching, page 7-122](#)
- [BFD, page 7-122](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)
- [Ethernet OAM, page 7-126](#)

Cisco Catalyst 3750 Metro Series—Supported Service Events

Table 7-37 *Supported Service Events for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.1*

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 Catalyst 3750 Metro Series—Supported Commands

Table 7-38 *Supported Commands for Cisco Catalyst 3750 Metro Series—Cisco ANA Version 3.7.1*

Command	ANA Version
CFM Configure Domain	3.7
CFM Configure Global Params	3.7
CFM Configure MIP	3.7
CFM Define Continuity Check	3.7
CFM Configure ServiceID	3.7
CFM Configure MEP	3.7
CFM Enable Continuity Check	3.7
CFM Enable SNMP Server Traps	3.7
CFM Diag MEP Status	3.7
CFM CrossCheck Status	3.7
CFM Diag Ping MAC	3.7
CFM Diag Ping MPID	3.7
CFM Diag Ping Multicast	3.7
CFM Diag MAC TraceRoute	3.7
CFM Diag MPID TraceRoute	3.7
CFM Configure MEP	3.7 ¹
Enable E-LMI Global	3.7
Configure MultiPoint To MultiPoint or Point To Point EVC	3.7
Configure UNI in an Interface	3.7
Enable E-LMI on Interface	3.7
Configure Service Instance Vlan Id on Interface	3.7
Apply Template on Interface	3.7
Create Template on Interface	3.7
Disable OAM on Interface	3.7
Enable OAM on Interface	3.7
Configure OAM Parameter on Interface	3.7
Start Remote Loopback	3.7
Stop Remote Loopback	3.7
Show REP Segment Information	3.7

¹ Specific to IOS 12.2(53)SE.

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 3.7.1, see [Cisco ME 3800X Carrier Ethernet Switches](#)):

- [Cisco ME 3800X—Supported Software Versions, page 7-29](#)
- [Cisco ME 3800X—Supported Topologies, page 7-29](#)
- [Cisco ME 3800X—Supported Modules, page 7-30](#)
- [Cisco ME 3800X—Supported Technologies, page 7-31](#)
- [Cisco ME 3800X—Supported Service Events, page 7-32](#)
- [Cisco ME 3800X—Supported Commands, page 7-32](#)

Cisco ME 3800X—Supported Software Versions

Table 7-39 *Supported Software Versions for Cisco ME 3800X—Cisco ANA Version 3.7.1*

Software Version	ANA Version
IOS 12.2(52)EY	3.7.1

Cisco ME 3800X—Supported Topologies

Table 7-40 *Supported Topologies for Cisco ME 3800X—Cisco ANA Version 3.7.1*

Topology Type	Link Type	ANA Version
BGP	BGP	3.7.1
Ethernet	Ethernet	3.7.1
MPLS	MPLS	3.7.1
PPP/HDLC	PPP or HDLC	3.7.1
LAG	LAG	3.7.1

Cisco ME 3800X—Supported Modules

Table 7-41 Supported Modules for Cisco ME 3800X—Cisco ANA Version 3.7.1

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
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	Long wavelength gigabit ethernet SFP
GLC-SX-MM	3.7.1	Short wavelength 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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [MPLS, page 7-111](#)
- [MPLS-TE, page 7-113](#)
- [VPN \(VRF\), page 7-114](#)
- [PWE3, page 7-116](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [BFD, page 7-122](#)
- [Carrier Ethernet, page 7-123](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)
- [Ethernet OAM, page 7-126](#)

Cisco ME 3800X—Supported Service Events

Table 7-42 *Supported Service Events for Cisco ME 3800X—Cisco ANA Version 3.7.1*

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 ME 3800X—Supported Commands

Table 7-43 *Supported Commands for Cisco ME 3800X—Cisco ANA Version 3.7.1*

Command	ANA Version
Apply Template on Interface	3.7.1
Create Template on Interface	3.7.1
Disable OAM on Interface	3.7.1
Enable OAM on Interface	3.7.1
Configure OAM Parameter on Interface	3.7.1
Start Remote Loopback	3.7.1
Stop Remote Loopback	3.7.1
Show REP Segment Information	3.7.1

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

- [Cisco Catalyst 4000 Series—Supported Software Versions, page 7-33](#)
- [Cisco Catalyst 4000 Series—Supported Topologies, page 7-33](#)
- [Cisco Catalyst 4000 Series—Supported Modules, page 7-34](#)
- [Cisco Catalyst 4000 Series—Supported Technologies, page 7-35](#)
- [Cisco Catalyst 4000 Series—Supported Service Events, page 7-35](#)
- [Cisco Catalyst 4000 Series—Supported Commands, page 7-36](#)

Cisco Catalyst 4000 Series—Supported Software Versions

Table 7-44 *Supported Software Versions for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1*

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 7-45 *Supported Topologies for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1*

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 7-46 Supported Modules for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1

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
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)

Table 7-46 Supported Modules for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 4000 Series—Supported Service Events

Table 7-47 Supported Service Events for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1

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

Table 7-47 **Supported Service Events for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1**

Event Name	ANA Version	Expedited
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 4000 Series—Supported Commands

Table 7-48 **Supported Commands for Cisco Catalyst 4000 Series—Cisco ANA Version 3.7.1**

Command	ANA Version
Show REP Segment Information	3.7

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

- [Cisco Catalyst 4500 Series—Supported Software Versions, page 7-37](#)
- [Cisco Catalyst 4500 Series—Supported Topologies, page 7-37](#)
- [Cisco Catalyst 4500 Series—Supported Modules, page 7-38](#)
- [Cisco Catalyst 4500 Series—Supported Technologies, page 7-42](#)
- [Cisco Catalyst 4500 Series—Supported Service Events, page 7-43](#)
- [Cisco Catalyst 4500 Series—Supported Commands, page 7-43](#)

Cisco Catalyst 4500 Series—Supported Software Versions

Table 7-49 *Supported Software Versions for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1*

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 7-50 *Supported Topologies for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1*

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 7-51 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

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)
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)

Table 7-51 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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	3.7	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.

Table 7-51 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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

Table 7-51 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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)
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)

Table 7-51 Supported Modules for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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 ¹	Catalyst 4507R-E Fan Tray

¹Tested by John C(PLM).Refer bug-CSCtg86953

Cisco Catalyst 4500 Series—Supported Technologies

The following technologies are supported by the Cisco Catalyst 4500 Series in Cisco ANA Version 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [VPN \(VRF\), page 7-114](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 4500 Series—Supported Service Events

Table 7-52 Supported Service Events for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

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 Catalyst 4500 Series—Supported Commands

Table 7-53 Supported Commands for Cisco Catalyst 4500 Series—Cisco ANA Version 3.7.1

Command	ANA Version
Show REP Segment Information	3.7

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 3.7.1, see [Cisco ACE 4700 Series Access Control Engine](#)):

- [Cisco ACE 4700—Supported Software Versions, page 7-44](#)
- [Cisco ACE 4700—Supported Topologies, page 7-44](#)
- [Cisco ACE 4700—Supported Technologies, page 7-44](#)
- [Cisco ACE 4700—Supported Service Events, page 7-45](#)

Cisco ACE 4700—Supported Software Versions

Table 7-54 *Supported Software Versions for Cisco ACE 4700—Cisco ANA Version 3.7.1*

Software Version	ANA Version
ACE Appliance SW 3.2	3.7.1

Cisco ACE 4700—Supported Topologies

Table 7-55 *Supported Topologies for Cisco ACE 4700—Cisco ANA Version 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)

Cisco ACE 4700—Supported Service Events

Table 7-56 Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.1

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
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

Table 7-56 *Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.1 (continued)*

Event Name	ANA Version	Expedited
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
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

Table 7-56 **Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.1 (continued)**

Event Name	ANA Version	Expedited
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
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

Table 7-56 *Supported Service Events for Cisco ACE 4700—Cisco ANA Version 3.7.1 (continued)*

Event Name	ANA Version	Expedited
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
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 3.7.1, see [Cisco Catalyst 4900 Series Switches](#)):

- [Cisco Catalyst 4900 Series—Supported Software Versions, page 7-49](#)
- [Cisco Catalyst 4900 Series—Supported Topologies, page 7-50](#)
- [Cisco Catalyst 4900 Series—Supported Modules, page 7-50](#)
- [Cisco Catalyst 4900 Series—Supported Technologies, page 7-53](#)
- [Cisco Catalyst 4900 Series—Supported Service Events, page 7-54](#)
- [Cisco Catalyst 4900 Series—Supported Commands, page 7-56](#)

Cisco Catalyst 4900 Series—Supported Software Versions

Table 7-57 *Supported Software Versions for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1*

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
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 7-58 Supported Topologies for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1

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 7-59 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1

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
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)

Table 7-59 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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)
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)

Table 7-59 Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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

Table 7-59 **Supported Modules for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1**

Module Name	ANA Version	Module Description
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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [VPN \(VRF\), page 7-114](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco Catalyst 4900 Series—Supported Service Events

Table 7-60 *Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1*

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 7-60 *Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1*

Event Name	ANA Version	Expedited
I2tp peer is removed	3.6.1	N
I2tp 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 7-60 *Supported Service Events for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1*

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 4900 Series—Supported Commands

Table 7-61 *Supported Commands for Cisco Catalyst 4900 Series—Cisco ANA Version 3.7.1*

Command	ANA Version
Show REP Segment Information	3.7

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

- [Cisco 4924 ME—Supported Software Versions, page 7-57](#)
- [Cisco 4924 ME—Supported Topologies, page 7-57](#)
- [Cisco 4924 ME—Supported Modules, page 7-58](#)
- [Cisco 4924 ME—Supported Technologies, page 7-59](#)
- [Cisco 4924 ME—Supported Service Events, page 7-60](#)
- [Cisco 4924 ME—Supported Commands, page 7-62](#)

Cisco 4924 ME—Supported Software Versions

Table 7-62 *Supported Software Versions for Cisco 4924 ME—Cisco ANA Version 3.7.1*

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 7-63 *Supported Topologies for Cisco 4924 ME—Cisco ANA Version 3.7.1*

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

Cisco 4924 ME—Supported Modules

Table 7-64 Supported Modules for Cisco 4924 ME—Cisco ANA Version 3.7.1

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
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

Table 7-64 **Supported Modules for Cisco 4924 ME—Cisco ANA Version 3.7.1 (continued)**

Module Name	ANA Version	Module Description
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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [VPN \(VRF\), page 7-114](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco 4924 ME—Supported Service Events

Table 7-65 *Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.7.1*

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 7-65 **Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.7.1 (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 7-65 Supported Service Events for Cisco 4924 ME—Cisco ANA Version 3.7.1 (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 4924 ME—Supported Commands

Table 7-66 Supported Commands for Cisco 4924ME—Cisco ANA Version 3.7.1

Command	ANA Version
Show REP Segment Information	3.7

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 3.7.1, see [Cisco Catalyst 5000 Series Switches](#)):

- [Cisco 5000 Series—Supported Software Versions, page 7-63](#)
- [Cisco 5000 Series—Supported Topologies, page 7-63](#)
- [Cisco 5000 Series—Supported Technologies, page 7-63](#)
- [Cisco 5000 Series—Supported Service Events, page 7-64](#)

Cisco 5000 Series—Supported Software Versions

Table 7-67 *Supported Software Versions for Cisco 5000 Series—Cisco ANA Version 3.7.1*

Software Version	ANA Version
4.5(15)	3.7

Cisco 5000 Series—Supported Topologies

Table 7-68 *Supported Topologies for Cisco 5000 Series—Cisco ANA Version 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)

Cisco 5000 Series—Supported Service Events

Table 7-69 *Supported Service Events for Cisco 5000 Series—Cisco ANA Version 3.7.1*

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
Link up	3.7	N
Module Unsupported	3.7	N

Cisco 5000 Series—Supported Commands

Table 7-70 *Supported Commands for Cisco 5000 Series—Cisco ANA Version 3.7.1*

Command	ANA Version
Show REP Segment Information	3.7

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 3.7.1, see [Cisco Catalyst 6500 Series \(CatOS\) Switches](#)):

- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Software Versions](#), page 7-65
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Topologies](#), page 7-65
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Modules](#), page 7-66
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Technologies](#), page 7-68
- [Cisco Catalyst 6500 Series \(CatOS\)—Supported Service Events](#), page 7-69

Cisco Catalyst 6500 Series (CatOS)—Supported Software Versions

Table 7-71 *Supported Software Versions for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.1*

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 7-72 *Supported Topologies for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.1*

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 7-73 *Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.1*

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-IDSM2	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
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)

Table 7-73 Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
PA-POSSW-LR	3.6.0	pa-possw-lr
PA-POSSW-MM	3.6.0	pa-possw-mm
PA-POSSW-SM	3.6.0	pa-possw-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

Table 7-73 Supported Modules for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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 (IDS2) 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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Frame Relay, page 7-104](#)
- [PPP, page 7-105](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [CDP, page 7-125](#)

Cisco Catalyst 6500 Series (CatOS)—Supported Service Events

Table 7-74 *Supported Service Events for Cisco Catalyst 6500 Series (CatOS)—Cisco ANA Version 3.7.1*

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

- [Cisco Catalyst 6500 Series \(IOS\)—Supported Software Versions, page 7-70](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Topologies, page 7-71](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Modules, page 7-71](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Technologies, page 7-78](#)
- [Cisco Catalyst 6500 Series \(IOS\)—Supported Service Events, page 7-79](#)

Cisco Catalyst 6500 Series (IOS)—Supported Software Versions

Table 7-75 *Supported Software Versions for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1*

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 7-76 Supported Topologies for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

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

Cisco Catalyst 6500 Series (IOS)—Supported Modules

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

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

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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
CAT6500SSLSTM	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;

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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 CEsP 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-2XOC48POSRPR	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-4XOC48POSRPR	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

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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 (IDS2) Service Module
WS-SVC-IDS2	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)

Table 7-77 Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
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
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

Table 7-77 **Supported Modules for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1**

Module Name	ANA Version	Module Description
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 3.7.1:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [ATM, page 7-101](#)
- [HDLC, page 7-106](#)
- [SONET/SDH, page 7-107](#)
- [TDM/DSx, page 7-108](#)
- [MPLS, page 7-111](#)
- [MPLS-TE, page 7-113](#)
- [VPN \(VRF\), page 7-114](#)
- [PWE3, page 7-116](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [LocalSwitching, page 7-122](#)
- [BFD, page 7-122](#)
- [Carrier Ethernet, page 7-123](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)
- [Ethernet OAM, page 7-126](#)

Cisco Catalyst 6500 Series (IOS)—Supported Service Events

Table 7-78 *Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1*

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
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

Table 7-78 **Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1 (continued)**

Event Name	ANA Version	Expedited
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
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

Table 7-78 **Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1 (continued)**

Event Name	ANA Version	Expedited
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
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

Table 7-78 **Supported Service Events for Cisco Catalyst 6500 Series (IOS)—Cisco ANA Version 3.7.1 (continued)**

Event Name	ANA Version	Expedited
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 3.7.1, see [Cisco ME 6500 Series Ethernet Switches \(6524\)](#)):

- [Cisco ME 6500 Series \(6524\)—Supported Software Versions, page 7-82](#)
- [Cisco ME 6500 Series \(6524\)—Supported Topologies, page 7-83](#)
- [Cisco ME 6500 Series \(6524\)—Supported Modules, page 7-83](#)
- [Cisco ME 6500 Series \(6524\)—Supported Technologies, page 7-83](#)
- [Cisco ME 6500 Series \(6524\)—Supported Service Events, page 7-84](#)

Cisco ME 6500 Series (6524)—Supported Software Versions

Table 7-79 **Supported Software Versions for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.1**

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 7-80 Supported Topologies for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.1

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 7-81 Supported Modules for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.1

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 3.7.1:

- [IP](#), page 7-90
- [Routing Protocols](#), page 7-93
- [Ethernet](#), page 7-95
- [MPLS](#), page 7-111
- [MPLS-TE](#), page 7-113
- [VPN \(VRF\)](#), page 7-114
- [PWE3](#), page 7-116
- [Security](#), page 7-117
- [Hardware](#), page 7-118
- [Serial](#), page 7-120
- [Additional Technologies](#), page 7-121

- [Carrier Ethernet](#), page 7-123
- [LLDP](#), page 7-124
- [CDP](#), page 7-125
- [Discovery Protocol](#), page 7-125
- [Ethernet OAM](#), page 7-126

Cisco ME 6500 Series (6524)—Supported Service Events

Table 7-82 *Supported Service Events for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.1*

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 ME 6500 Series (6524)—Supported Commands

Table 7-83 *Supported Commands for Cisco ME 6500 Series (6524)—Cisco ANA Version 3.7.1*

Command	ANA Version
Show REP Segment Information	3.7

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 3.7.1, see [Cisco Nexus 7000 Series Switches](#)):

- [Cisco Nexus 7000—Supported Software Versions](#), page 7-85
- [Cisco Nexus 7000—Supported Topologies](#), page 7-85
- [Cisco Nexus 7000—Supported Modules](#), page 7-86
- [Cisco Nexus 7000—Supported Technologies](#), page 7-86
- [Cisco Nexus 7000—Supported Service Events](#), page 7-87
- [Cisco Nexus 7000—Additional Information](#), page 7-87

Cisco Nexus 7000—Supported Software Versions

Table 7-84 *Supported Software Versions for Cisco Nexus 7000—Cisco ANA Version 3.7.1*

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

Cisco Nexus 7000—Supported Topologies

Table 7-85 *Supported Topologies for Cisco Nexus 7000—Cisco ANA Version 3.7.1*

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 7-86 *Supported Modules for Cisco Nexus 7000—Cisco ANA Version 3.7.1*

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-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-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 3.7.1:

- [IP, page 7-90](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)

Cisco Nexus 7000—Supported Service Events

Table 7-87 Supported Service Events for Cisco Nexus 7000—Cisco ANA Version 3.7.1

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 Nexus 7000—Additional Information

As a prerequisite for the Cisco Nexus 7000 VNE, you must configure any VDC completely. Be sure to specify the complete hostname (such as `myHostname#`) while giving the device credentials. Specifying only the # will affect ANA device modeling.

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 3.7.1, see [Cisco Service Control Engines](#)):

- [Cisco SCE—Supported Topologies, page 7-88](#)
- [Cisco SCE—Supported Technologies, page 7-88](#)
- [Cisco SCE—Supported Service Events, page 7-88](#)

Cisco SCE—Supported Topologies

Table 7-88 *Supported Topologies for Cisco SCE—Cisco ANA Version 3.7.1*

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 3.7.1:

- [IP, page 7-90](#)
- [Ethernet, page 7-95](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)

Cisco SCE—Supported Service Events

Table 7-89 *Supported Service Events for Cisco SCE—Cisco ANA Version 3.7.1*

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 3.7.1 per technology:

- [IP, page 7-90](#)
- [Routing Protocols, page 7-93](#)
- [Ethernet, page 7-95](#)
- [ATM, page 7-101](#)
- [Frame Relay, page 7-104](#)
- [PPP, page 7-105](#)
- [HDLC, page 7-106](#)
- [SONET/SDH, page 7-107](#)
- [TDM/DSx, page 7-108](#)
- [MPLS, page 7-111](#)
- [MPLS-TE, page 7-113](#)
- [VPN \(VRF\), page 7-114](#)
- [PWE3, page 7-116](#)
- [Security, page 7-117](#)
- [Hardware, page 7-118](#)
- [Serial, page 7-120](#)
- [Additional Technologies, page 7-121](#)
- [LocalSwitching, page 7-122](#)
- [BFD, page 7-122](#)
- [Carrier Ethernet, page 7-123](#)
- [LLDP, page 7-124](#)
- [CDP, page 7-125](#)
- [Discovery Protocol, page 7-125](#)
- [Ethernet OAM, page 7-126](#)

For information about IMO changes in Cisco ANA 3.7.1, please see <http://developer.cisco.com/web/ana/integration>.

IP

Table 7-90 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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
Subnetwork Mask		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
Interface Name	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
IP Interface State	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	
ARP Entity		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	

Table 7-90 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 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	
Type		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	
Outgoing Interface Name		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
IMO Name—IARPEntity																					
IP Address		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
Port		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
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 7-90 IP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
Virtual MAC Address							Y		Y	Y		Y ¹⁴		Y ¹⁵				Y	Y		
IMO Name—I TunnelGRE																					
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—IIPSLAResponderService																					
responderStatus																					
TWAMPResponderStatus																					
tcpConnect																					
udpEcho																					
IMO Name—IIPAddressPortPair																					
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 7-91 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IM0 Name—IBgpNeighborEntry																					
Remote Identifier						Y	Y		Y	Y		Y ¹		Y ²	Y			Y	Y		
Neighbor Type																					
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															
IM0 Name—I0spfEntry																					
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		
IM0 Name—I0spfProcess																					
Process Id							Y			Y											
OSPF Version							Y			Y											
Router Id							Y			Y											
IM0 Name—I0spfNeighbor																					
Neighbor Id							Y			Y											
Outgoing Interface							Y			Y											
State							Y			Y											
Neighbor Interface Address							Y			Y											
Area Id							Y			Y											
IM0 Name—I0spfInterface																					
Area Id							Y			Y											
Network Type							Y			Y											
Cost							Y			Y											

Table 7-91 Routing Protocols Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
State							Y			Y											
Interface Address													Y	Y					Y	Y	
Type							Y			Y											
IF Priority							Y			Y											
DR Id							Y			Y											
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 7-92 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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
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 ¹		Y	Y		Y	Y	Y		
Native VLAN Identification			Y		Y	Y		Y	Y			Y ²		Y	Y		Y	Y	Y		
Virtual LAN Table																					
IANA Type																			Y		
Containing CTPs																					

Table 7-92 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
Contained CTPs																					
vlanAdminType			Y						Y					Y			Y				
vlanencapType			Y						Y					Y			Y				
getAccess																					
Allowed Vlans									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		
StpBackboneFastState		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y		

Table 7-92 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
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		
IMO Name—IMstService																					
MstProperties		Y						Y								Y					
Same as IStpService		Y						Y								Y					
IMO 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		
IMO 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		
IMO 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		
IMO 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 7-92 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 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	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		
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 ¹¹	Y	Y	Y ¹²	Y ¹³	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y		
Bandwidth		Y ¹⁴	Y	Y	Y	Y ¹⁵	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y		
Aggregation Protocol		Y ¹⁶	Y	Y	Y ¹⁷	Y ¹⁸	Y	Y	Y	Y	Y	Y		Y			Y	Y	Y		

Table 7-92 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
IANA Type		Y ¹⁹	Y	Y	Y ²⁰	Y ²¹	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	²²	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y		
OperatingMode	Y	Y	²³	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y		
DomainName		Y	²⁴	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y		
ConfigurationRevision	Y	Y	²⁵	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y		
isPruningEnabled	Y	Y	²⁶	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y		
isAuthenticationEnabled	Y	Y	²⁷	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y	Y	Y	Y		
IMO Name—IREPService																					
version		Y ²⁸	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
administrativeVlan		Y ²⁹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
notificationEnabled		Y ³⁰	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
IMO Name—IREPSegmentInfo																					
segmentId		Y ³¹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
segmentComplete		Y ³²	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
IMO Name—IREPPortInfo																					
portName		Y ³³	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
portKey		Y ³⁴	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
segmentId		Y ³⁵	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
portType		Y ³⁶	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
portRole		Y ³⁷	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
operStatus		Y ³⁸	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		

Table 7-92 Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
blockedVlans		Y ³⁹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
preemptTimer		Y ⁴⁰	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
lslAgeoutTimer		Y ⁴¹	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
remoteDeviceName		Y ⁴²	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
remoteDeviceMac		Y ⁴³	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
remotePortName		Y ⁴⁴	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		
IMO Name—IIBridgeLan																					
Id																					
IMO Name—IIBridgeEntry																					
IS Id																					
IBridge																					
BBridge																					

^{1, 2, 3, 4}SNMP 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, 21}Not Supported on IOS version 12.2(25)SEE2

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

^{30, 31, 32, 33, 34, 35}The MIB provides data by default, but the device does not support VTP.

^{36, 37, 38, 39, 40, 41, 42}SNMP is supported on ANA 3.6.0 and later.

^{43, 44}Supported for 12.2(25)EWA14 only.

ATM

Table 7-93 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—IAtm																					
ATM Address																					
Interface Type																					
VP and VC Ranges																					
VC Table																		Y			
Cross-Connect Table																					
IANA Type																		Y			
Containing CTPs																					
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																					

Table 7-93 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
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			
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																					

Table 7-93 ATM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
Same as IAtm																					
IMO Name—IAtmTrunkVc																					
Destination Description																					
Same as IAtmVc																					
IMO Name—IVcSwitchingEntity																					
Cross Connect Table																					
crossConnectTableSize																					
Logical Sons																					
IMO Name—IIMAGroup																					
AdminStatus																					
OperStatus																					
GroupNumber																					
ImaVersion																					
Speed																					
ConfiguredBandwidth																					
NumberOfLinks																					
NumberOfActiveLinks																					
MinimumNumberOfTxLinks																					
MinimumNumberOfRxLinks																					
ClockMode																					
FrameLength																					
interfaceName																					
groupStatus																					

Frame Relay

Table 7-94 Frame Relay Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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																					
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																					

Table 7-94 Frame Relay Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
Same as IFRVc																					
IMO Name—IEncapsulation																					
Virtual Connection Interface																	Y				
Binding Information																					

PPP

Table 7-95 PPP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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																					

Table 7-95 PPP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
LocalMRRU																					
RemoteMRRU																					
LoadThreshold																					
LCPSStatus																					
AdminStatus																					
OperStatus																					

HDLC

Table 7-96 HDLC Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—lencapsulation (HDLC/PPP)																					
Virtual Connection																					
Binding Information																		Y			
Binding Status																		Y			
IANA Type																		Y			
Containing CTPs																					
Contained CTPs																					

SONET/SDH

Table 7-97 SONET/SDH Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IM0 Name—ISonetSdh																					
Specific Type																					
Loopback Type																		Y			
Scrambling Mode																		Y			
Same as IPhysicalLayer																					
TCAThresholdB1																					
TCAThresholdB2																					
TCAThresholdB3																					
clocking																					
IM0 Name—IDS1PdhChannelized																					
Au4Number																					
Au3Number																					
Sts1Number																					
Tug3Number																					
Tug2Number																					
VtNumber																					
C11Number																					
C12Number																					
Vt15Number																					
Vt2Number																					
T1Number																					
E1Number																					
PathType																					
Description																					
IM0 Name—ISonetSdhHop																					
Description																					
AppliqueType																					
PathType																					
IM0 Name—ISonetSts1																					
Sts1Number																					
IM0 Name—ISdhAu4																					
Au4Number																					

Table 7-97 SONET/SDH Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
IMO Name—ISdhAu3																					
Au3Number																					

TDM/DSx

Table 7-98 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—IDS0Bundle																					
Bundled Time Slots																		Y			
Bundle Location																					
IANA Type																		Y			
Containing CTPs																					
Contained CTPs																					
AdminStatus																					
OperStatus																					
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																					

Table 7-98 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
IMO Name—IclockService																					
ActiveClockSource																					
NcsMode																					
HoldTimeout																					
UseStratum4																					
Mode																					
NcsPriorityList																					
PtpService																					
IMO Name—IclockSource																					
Priority																					
Source																					
Status																					
Type																					
IMO Name—IPtpService																					
Mode																					
ClockId																					
Domain																					
Priority1																					
Priority2																					
PtpEnabled																					
PtpInterfaceList																					
IMO Name—IPtpInterface																					
Version																					
AnnounceInterval																					
AnnounceTimeout																					
DestinationAddress																					
SourceAddress																					
DelayReq																					
MasterMode																					
SlaveMode																					
SyncInterval																					
SyncLimit																					
InterfaceXid																					

Table 7-98 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
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																					
RTP																					
RTPHeader																					
TimeSlots																					
AdminStatus																					
OperStatus																					
IMO Name—ISyncE																					
synchronousMode																					
equipmentClock																					
clockMode																					
ssmOption																					
esmcMode																					
holdOffTimer																					
waitToRestore																					
Revertive																					

Table 7-98 TDM/DSx Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
IM0 Name—ISyncEInterface																					
selectionInput																					
ingressESMCMode																					
egressESMCMode																					
ingressQLMode																					
ingressQuality																					
egressQLMode																					
egressQuality																					
waitToRestore																					
holdOffTimer																					

MPLS

Table 7-99 MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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		

Table 7-99 MPLS Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
IMO Name—ILdpService																					
Local Identification Status							Y		Y	Y											
LDP Peers							Y		Y	Y								Y	Y		
IMO 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		
IMO Name—ILdpDiscoverySource																					
Interface Name							Y		Y	Y								Y	Y		
Source Address							Y		Y	Y								Y	Y		
Type							Y		Y	Y								Y	Y		
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 7-100 MPLS-TE Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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		
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		

Table 7-100 MPLS-TE Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
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 7-101 VPN (VRF) Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—IVrf																					
Virtual Routing Table						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		
Name						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		

Table 7-101 VPN (VRF) Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
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		
Next Hop IP Address						Y	Y		Y	Y								Y	Y		
Type						Y	Y		Y	Y								Y	Y		
Routing Protocol Type						Y	Y		Y	Y								Y	Y		
Outgoing Interface Name						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											
IMO Name—ICrossVrfRoutingEntry																					
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 7-102 PWE3 Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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																					
PsuedowireType							Y		Y	Y								Y			
PreferredPathTunnel							Y		Y	Y								Y			
LocalMTU							Y		Y	Y								Y			
RemoteMTU							Y		Y	Y								Y			
PeerStatus							Y		Y	Y								Y			
SignalingProtocol							Y		Y	Y								Y			
VFIName							Y		Y	Y								Y			

Security

Table 7-103 Security Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IM0 Name—IAccessList																					
Type			Y				Y		Y	Y		Y ¹		Y ²	Y			Y	Y		
Access List Entries			Y				Y		Y	Y		Y ³		Y ⁴	Y			Y	Y		
Name or Id			Y				Y		Y	Y		Y ⁵		Y ⁶	Y			Y	Y		
Index			Y				Y		Y	Y		Y ⁷		Y ⁸	Y			Y	Y		
IM0 Name—IAccessListEntry																					
Entry Identification			Y				Y		Y	Y		Y ⁹		Y ¹⁰	Y			Y	Y		
Action Logic			Y				Y		Y	Y		Y ¹¹		Y ¹²	Y			Y	Y		
Source and Destination Address			Y				Y		Y	Y		Y ¹³		Y ¹⁴	Y			Y	Y		
Source and Destination Wildcard			Y				Y		Y	Y		Y ¹⁵		Y ¹⁶	Y			Y	Y		
Protocol Type			Y				Y		Y	Y		Y ¹⁷		Y ¹⁸	Y			Y	Y		
Source and Destination Port Ranges			Y				Y		Y	Y		Y ¹⁹		Y ²⁰	Y			Y	Y		
Source and Destination Port Action			Y				Y		Y	Y		Y ²¹		Y ²²	Y			Y	Y		
Protocol Specific Info			Y				Y		Y	Y		Y ²³		Y ²⁴	Y			Y	Y		
Differential Services Code Points			Y				Y		Y	Y		Y ²⁵		Y ²⁶	Y			Y	Y		
Type of Service			Y				Y		Y	Y		Y ²⁷		Y ²⁸	Y			Y	Y		
Precedence			Y				Y		Y	Y		Y ²⁹		Y ³⁰	Y			Y	Y		
Matches			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 7-104 Hardware Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—IChassis																					
Description			Y ¹			Y	Y ²		Y	Y ³	Y	Y	Y	Y	Y		Y	Y	Y	Y	
Equipment Holder Type				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	
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
Module Description			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
Operational Status		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
Managed IP Address																					
Redundant Equipment																					
Configured Redundancy												Y								Y	
Redundancy Status				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	
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
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
Communication State		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

Table 7-104 Hardware Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
Element Category		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
Device Name		Y	Y	Y	Y	Y	Y ⁴	Y	Y	Y ⁵	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
System Description	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
Software Version	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
Memory and CPU Usage		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		
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
Sys Location	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	
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		
Type		Y	Y		Y	Y						Y		Y	Y		Y	Y	Y		

Table 7-104 Hardware Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
MAC Address		Y	Y		Y	Y					Y	Y		Y	Y	Y	Y	Y	Y		
IP Interface		Y			Y	Y					Y	Y				Y		Y	Y		
Name		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		
Vlan Type			Y																		
IMO Name—IBridgeEntry																					
Destination MAC		Y	Y		Y	Y					Y	Y		Y	Y		Y	Y	Y		
Outgoing Interface			Y											Y	Y		Y	Y	Y		

¹Supported for 12.2(50)SE only.^{2,4}Supported only for version 12.2(50)SE^{3,5}Device Name is Mapped to Element Name in GUI

Serial

Table 7-105 Serial Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—IPhysicalLayer																					
Media Type		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
Is Internal Port		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
Operational Status	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Table 7-105 Serial Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 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
Location	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
Connector Description		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	
Connector Serial Num		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	
Status		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
Ipcore	Y																				

Additional Technologies

Table 7-106 Additional Technologies Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—POS																					
POS			Y		Y	Y			Y					Y	Y			Y	Y		

LocalSwitching

Table 7-107 LocalSwitching Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—ILocalSwitchingEntity																					
LocalSwitchingTable									Y									Y			
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 7-108 BFD Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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 7-109 Carrier Ethernet Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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 7-110 LLDP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IMO Name—ILLDPService																					
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—ILLDPNeighbor																					
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 7-111 CDP Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IM0 Name—ICdpService																					
cdpHoldtime		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		
cdpDeviceId		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		
cdpVersion		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y		
IM0 Name—ICdpNeighbor																					
remoteDeviceId	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		
remoteIPAddress	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		

Discovery Protocol

Table 7-112 Discovery Protocol Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 7000	SCE
IM0 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 7-113 Ethernet OAM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1

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 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		
cfmInterface			Y					Y										Y	Y		

Table 7-113 Ethernet OAM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
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			
remoteLoopback			Y				Y		Y	Y								Y			

Table 7-113 Ethernet OAM Attribute Support on Cisco Switches—Cisco ANA Version 3.7.1 (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 7000	SCE
IMO Name—IUNIPProperties																					
UNIId			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			
UNIInterfaces			Y						Y									Y			
IMO Name—IUNIInterfaces																					
UNIStatus			Y						Y									Y			
UNIId			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, 4Supported from IOS version 12.2(35)SE onwards