



CHAPTER 3

Support Information for Alcatel-Lucent Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Alcatel-Lucent devices in Cisco ANA Version 3.7.2 and 3.7.3. For more information about the objects and attributes described in this chapter, see the [Cisco Active Network Abstraction 3.7.2 Reference Guide](#).

This chapter contains the following topics:

- [Alcatel-Lucent ATM Subscriber Access Multiplexer, page 3-1](#)
- [Alcatel-Lucent 7450 Ethernet Service Switch, page 3-7](#)
- [Alcatel-Lucent 7705 Service Aggregation Router, page 3-10](#)
- [Alcatel-Lucent 7750/7710 Service Router, page 3-12](#)
- [Alcatel-Lucent Intelligent Services Access Manager, page 3-14](#)
- [Supported Technologies on Alcatel-Lucent Devices, page 3-19](#)

Alcatel-Lucent ATM Subscriber Access Multiplexer

This section includes the following information about Alcatel-Lucent ASAM devices (for information on the NE types supported in Cisco ANA Version 3.7.2/3.7.3, see [Alcatel-Lucent ATM Subscriber Access Multiplexer](#)):

This section contains the following topics:

- [Alcatel-Lucent ASAM—Supported Software Versions, page 3-2](#)
- [Alcatel-Lucent ASAM—Supported Topologies, page 3-2](#)
- [Alcatel-Lucent ASAM—Supported Modules, page 3-2](#)
- [Alcatel-Lucent ASAM—Supported Technologies, page 3-5](#)
- [Alcatel-Lucent ASAM—Supported Service Events, page 3-5](#)



Note

Alcatel ATM Subscriber Access Multiplexer device was already supported in the ANA version prior to 3.7.2.

Alcatel-Lucent ASAM—Supported Software Versions

Table 3-1 *Supported Software Versions for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3*

Software Version	ANA Version
2.0.0.16	3.7.2/3.7.3
2.3.1.15	3.7.2/3.7.3
2.4.2.4	3.7.2/3.7.3
3.1.0	3.7.2/3.7.3
4.1.3.0	3.7.2/3.7.3
4.1.5.6	3.7.2/3.7.3
4.2.0.6	3.7.2/3.7.3
4.2.1.0	3.7.2/3.7.3
4.6.0.6	3.7.2/3.7.3
5.0.1.2	3.7.2/3.7.3
5.0.1.3	3.7.2/3.7.3
5.1.0.10	3.7.2/3.7.3
5.1.0.21	3.7.2/3.7.3

Alcatel-Lucent ASAM—Supported Topologies

Table 3-2 *Supported Topologies for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3*

Topology Type	Link Type	ANA Version
ATM	ATM	3.7.2/3.7.3
Ethernet	Ethernet	3.7.2/3.7.3
PPP/HDLC	PPP or HDLC	3.7.2/3.7.3

Alcatel-Lucent ASAM—Supported Modules

Table 3-3 *Supported Modules for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3*

Module Name	ANA Version	Module Description
AACU-A	3.7.2/3.7.3	ADSL Alarm Control Unit version A (R3 equipment)

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3

Module Name	ANA Version	Module Description
AACU-B	3.7.2/3.7.3	ADSL Alarm Control Unit version B
AACU-C	3.7.2/3.7.3	ADSL Alarm Control Unit version C (R4 equipment)
ABLT-D	3.7.2/3.7.3	MultiDSL POTS UD BVB LT standard version D
ABLT-E	3.7.2/3.7.3	Multi-DSL POTS Line Termination version E
ADLT-C	3.7.2/3.7.3	ADSL Line termination version C (4 lines)
ADLT-E	3.7.2/3.7.3	ADSL Line termination version E (4 lines)
ADLT-F	3.7.2/3.7.3	ADSL (Euro) Line termination version F (ISDN support, 4 lines)
ADLT-J	3.7.2/3.7.3	ADSL Line termination version J (12 lines)
ADLT-K	3.7.2/3.7.3	ADSL Line termination version K (12 lines)
ADLT-L	3.7.2/3.7.3	ADSL Line termination version L (24 lines)
ADLT-M	3.7.2/3.7.3	ADSL Line termination version M (12 lines)
ADLT-S	3.7.2/3.7.3	ADSL Line Termination version S - BVB enabled
ADLT-W	3.7.2/3.7.3	ADSL Line Termination version W - POTS/BVB ready
ADSE-A	3.7.2/3.7.3	ADSL Serial Extender version A
ADSE-B	3.7.2/3.7.3	ADSL Serial Extender version B
ADSE-C	3.7.2/3.7.3	ADSL Serial Extender version C
AICC-A	3.7.2/3.7.3	IMA ATM E1-NT 2 Mits Controller Card
ASCC-P	3.7.2/3.7.3	PDH Interface Controller Card
ASCC-PE	3.7.2/3.7.3	PDH E3 Interface Controller Card
ASCC-S1	3.7.2/3.7.3	STM-1 Interface Controller Card

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3

Module Name	ANA Version	Module Description
ASPS-A	3.7.2/3.7.3	ADSL Splitter Subrack version A
BSEC-A	3.7.2/3.7.3	Broad Band Shelf Extender Card
D1LT-A	3.7.2/3.7.3	DS1 Line termination version A
D1LT-B	3.7.2/3.7.3	4 T1 ports Using IMA Group
D3LT-A	3.7.2/3.7.3	DS3 Line termination version A
D3NT-A	3.7.2/3.7.3	DS3 Network Termination version A
D3NT-C	3.7.2/3.7.3	DS3 Network Termination version C
E1LT-A	3.7.2/3.7.3	E1 (IMA) Line Termination version A (4 lines)
E1NT-A	3.7.2/3.7.3	(Quad) E1 (IMA) Network Termination version A
E1NT-C	3.7.2/3.7.3	GANT-B motherboard and E1PL-B daughterboard (PLIM)
EBLT-A	3.7.2/3.7.3	ADSL2+ POTS Line Termination version A
EBLT-C	3.7.2/3.7.3	ADSL2+ POTS Line Termination version C
ECNT-A	3.7.2/3.7.3	7302 ISAM Combined network termination version A
LTAC-C	3.7.2/3.7.3	Line Terminal ADSL Combiner Card
LTAC-D	3.7.2/3.7.3	Line Terminal ADSL Combiner Card
LTSC-A	3.7.2/3.7.3	Line Termination SHDSL Card
MACU-A	3.7.2/3.7.3	MiniRAM ACU version A
NBLC-A	3.7.2/3.7.3	Narrowband Line Card
SALT-A	3.7.2/3.7.3	1 Port OC3 Card
SALT-C	3.7.2/3.7.3	STM-1/OC3c (HCL based) Line Termination Unit version C

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3

Module Name	ANA Version	Module Description
SANT-D	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version D
SANT-E	3.7.2/3.7.3	GANT-A motherboard and SONI-A daughterboard (PLIM)
SANT-F	3.7.2/3.7.3	GANT-B motherboard and SONI-A daughterboard (PLIM)
SANT-G	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version G
SHLT-B	3.7.2/3.7.3	SHDSL Line termination versioin B (12 lines)
SMLT-A	3.7.2/3.7.3	SHDSL Line termination version A (24 lines with IMA)
SMLT-B	3.7.2/3.7.3	SHDSL Line Termination Unit Version B(12 lines, with IMA)
IPGW-A	3.7.2/3.7.3	IP Service Gateway
RPSP-A	3.7.2/3.7.3	Packet Subscriber profile version A

Alcatel-Lucent ASAM—Supported Technologies

The following technologies are supported by the Alcatel-Lucent ASAM in Cisco ANA Version 3.7.2/3.7.3:

- [IP, page 3-20](#)
- [ATM, page 3-20](#)
- [SONET/SDH, page 3-22](#)
- [xDSL, page 3-22](#)
- [Ethernet, page 3-23](#)
- [Hardware, page 3-24](#)
- [Serial, page 3-26](#)

Alcatel-Lucent ASAM—Supported Service Events

Table 3-4 Supported Service Events for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.2/3.7.3	Y

Table 3-4 **Supported Service Events for Alcatel-Lucent ASAM—Cisco ANA Version 3.7.2/3.7.3**

Event Name	ANA Version	Expedited
All IP Interfaces Down	3.7.2/3.7.3	Y
BGP Neighbor Down	3.7.2/3.7.3	N
Card Down	3.7.2/3.7.3	Y
Card In	3.7.2/3.7.3	Y
Card Out	3.7.2/3.7.3	Y
Card Up	3.7.2/3.7.3	Y
Device Unreachable	3.7.2/3.7.3	N
Device Unsupported	3.7.2/3.7.3	N
Interface status down flapping	3.7.2/3.7.3	Y
Interface status down flapping update	3.7.2/3.7.3	Y
Link Down	3.7.2/3.7.3	N
Link up	3.7.2/3.7.3	N
Port Down	3.7.2/3.7.3	N
Port Flapping	3.7.2/3.7.3	N

Alcatel-Lucent 7450 Ethernet Service Switch

This section includes the following information about Alcatel-Lucent 7450 ESS devices (for information on the NE types supported in Cisco ANA Version 3.7.2 and 3.7.3, see the [Alcatel-Lucent 7450 Ethernet Service Switch](#)):

This section contains the following topics:

- [Alcatel-Lucent 7450 ESS—Supported Software Versions, page 3-7](#)
- [Alcatel-Lucent 7450 ESS—Supported Topologies, page 3-7](#)
- [Alcatel-Lucent 7450 ESS—Supported Modules, page 3-7](#)
- [Alcatel-Lucent 7450 ESS—Supported Technologies, page 3-8](#)
- [Alcatel-Lucent 7450 ESS—Supported Service Events, page 3-8](#)

Alcatel-Lucent 7450 ESS—Supported Software Versions

Table 3-5 *Supported Software Versions for Alcatel-Lucent 7450 ESS—Cisco ANA Version 3.7.2 and 3.7.3*

Software Version	ANA Version	DP Version
3.0.R1	3.7.2	1.0
3.0.R7	3.7.2	1.0
4.0.R5	3.7.2	1.0
5.0.R7	3.7.2	3.0

Alcatel-Lucent 7450 ESS—Supported Topologies

Table 3-6 *Supported Topologies for Alcatel-Lucent 7450 ESS—Cisco ANA Version 3.7.2 and 3.7.3*

Topology Type	Link Type	ANA Version	DP Version
Ethernet	Ethernet	3.7.2	1.0

Alcatel-Lucent 7450 ESS—Supported Modules

Table 3-7 *Supported Modules for Alcatel-Lucent 7450 ESS—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA Version	Module Description	DP Version
M10-1GB-SFP	3.7.2	MDA 10 Ports 1-Gigabit Ethernet SFP	1.0
M16-OC12/3-SFP	3.7.2	MDA 16 Ports OC12/OC3 SFP	1.0
M8-OC12/3-SFP	3.7.2	MDA 8 Ports OC12/OC3 SFP	1.0

Table 3-7 Supported Modules for Alcatel-Lucent 7450 ESS—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
M16-OC3-SFP	3.7.2	MDA 16 Ports OC3 SFP	1.0
M4-OC48-SFP	3.7.2	MDA 4 Ports OC48 SFP	1.0
M1-10GB	3.7.2	MDA 1 Port 10 GigabitP	1.0
M2-OC48-SFP	3.7.2	MDA 2 Ports OC48 SFP	1.0
20-100ETH-SFP	3.7.2	MDA 20 Port 100FX	1.0
M20-1GB-TX	3.7.2	MDA 20 Ports 10/100/1000 Ethernet TX	1.0
M2-10GB-XFP	3.7.2	MDA 2 Ports 10Gig Ethernet XFP	1.0
M20-1GB-SFP	3.7.2	MDA 20 Ports 10/100/1000 Ethernet SFP	1.0
VSM-CCA	3.7.2	VSM Cross Connect	1.0
M5-1GB-SFP-B	3.7.2	MDA 5 Ports 10/100/1000 Ethernet SFP	1.0
M10-1GB-SFP-B	3.7.2	MDA 10 Ports 10/100/1000 Ethernet SFP	1.0
SFM-200G	3.7.2	200g CPM/SF module	1.0
SFM-100G	3.7.2	100g CPM/SF module	1.0
SFM2-200G	3.7.2	200g CPM/SF module	1.0
IOM-20G	3.7.2	2 x 10-Gig MDA IOM Card	1.0
M60-10/100ETH-TX	3.7.2	MDA 60 Ports 10/100 Ethernet TX	1.0
M60-10/100ET-TX	3.7.2	MDA 60 Ports 10/100 Ethernet TX	1.0
IOM-20G-B	3.7.2	2 x 10-Gig MDA IOM Card, B	1.0
SFM2-400G	3.7.2	400g CPM/SF module	3.0

Alcatel-Lucent 7450 ESS—Supported Technologies

The following technologies are supported by the Alcatel-Lucent 7450 ESS in Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 3-20](#)
- [Ethernet, page 3-23](#)
- [Hardware, page 3-24](#)
- [Serial, page 3-26](#)

Alcatel-Lucent 7450 ESS—Supported Service Events

Supported Service Events for Alcatel-Lucent 7450 ESS—Cisco ANA Version 3.7.2 and 3.7.3

Event Name	ANA Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2	Y	1.0

Supported Service Events for Alcatel-Lucent 7450 ESS—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Event Name	ANA Version	Expedited	DP Version
All IP Interfaces Down	3.7.2	Y	1.0
BGP Neighbor Down	3.7.2	N	1.0
Card Down	3.7.2	Y	1.0
Card In	3.7.2	Y	1.0
Card Out	3.7.2	Y	1.0
Card Up	3.7.2	Y	1.0
Device Unreachable	3.7.2	N	1.0
Device Unsupported	3.7.2	N	1.0
Interface status down flapping	3.7.2	Y	1.0
Interface status down flapping update	3.7.2	Y	1.0
Link Down	3.7.2	N	1.0
Link up	3.7.2	N	1.0
Port Down	3.7.2	N	1.0
Port Flapping	3.7.2	N	1.0

Alcatel-Lucent 7705 Service Aggregation Router

This section includes the following information about Alcatel-Lucent 7705 SAR devices (for information on the NE types supported in Cisco ANA Version 3.7.2 and 3.7.3, see the [Alcatel-Lucent 7705 Service Aggregation Router](#)):

This section contains the following topics:

- [Alcatel-Lucent 7705 SAR—Supported Software Versions, page 3-10](#)
- [Alcatel-Lucent 7705 SAR—Supported Topologies, page 3-10](#)
- [Alcatel-Lucent 7705 SAR—Supported Modules, page 3-10](#)
- [Alcatel-Lucent 7705 SAR—Supported Technologies, page 3-11](#)
- [Alcatel-Lucent 7705 SAR—Supported Service Events, page 3-11](#)

Alcatel-Lucent 7705 SAR—Supported Software Versions

Table 3-8 *Supported Software Versions for Alcatel-Lucent 7705 SAR—Cisco ANA Version 3.7.2 and 3.7.3*

Software Version	ANA Version	DP Version
TiMOS-B-3.0.R1	3.7.2	3.0

Alcatel-Lucent 7705 SAR—Supported Topologies

Table 3-9 *Supported Topologies for Alcatel-Lucent 7705 SAR—Cisco ANA Version 3.7.2 and 3.7.3*

Topology Type	Link Type	ANA Version	DP Version
Ethernet	Ethernet	3.7.2	3.0

Alcatel-Lucent 7705 SAR—Supported Modules

Table 3-10 *Supported Modules for Alcatel-Lucent 7705 SAR—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA Version	Module Description	DP Version
A16-CHDS1V2	3.7.2	MDA 16 Port Any Service Channelized DS1/E1, Multi-Sync Supported	3.0
A8-ETHV3	3.7.2	MDA 6 10/100 Ethernet, 2 Port 1-Gigabit SFP, SyncE, Multiple Node Sync Sources	3.0
A8-ETHV2	3.7.2	MDA 6 10/100 Ethernet, 2 Port 1-Gigabit SFP, SyncE Supported	3.0
IOM-1G	3.7.2	1G 7705 IOM	3.0

Table 3-10 Supported Modules for Alcatel-Lucent 7705 SAR—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
CSM-1G	3.7.2	1G 7705 CSM	3.0

Alcatel-Lucent 7705 SAR—Supported Technologies

The following technologies are supported by the Alcatel-Lucent 7705 SAR in Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 3-20](#)
- [Routing Protocols, page 3-23](#)
- [Ethernet, page 3-23](#)
- [Hardware, page 3-24](#)
- [Serial, page 3-26](#)
- [MPLS, page 3-26](#)

Alcatel-Lucent 7705 SAR—Supported Service Events

Table 3-11 Supported Service Events for Alcatel-Lucent 7705 SAR—Cisco ANA Version 3.7.2 and 3.7.3

Event Name	ANA Version	Expedited	DP Version
Card In/Out	3.7.2	N	3.0
Link Down/Up	3.7.2	N	3.0
Device Unreachable	3.7.2	N	3.0
CPU Over Utilized	3.7.2	N	3.0
Device Unsupported	3.7.2	N	3.0
Module Unsupported	3.7.2	N	3.0
Port Flapping	3.7.2	N	3.0
Port Down	3.7.2	N	3.0
Card Up/Down	3.7.2	N	3.0

Alcatel-Lucent 7750/7710 Service Router

This section includes the following information about Alcatel-Lucent 7750/7710 SR devices (for information on the NE types supported in Cisco ANA Version 3.7.2 and 3.7.3, see the [Alcatel-Lucent 7750/7710 Service Router](#)):

This section contains the following topics:

- [Alcatel-Lucent 7750/7710 SR—Supported Software Versions, page 3-12](#)
- [Alcatel-Lucent 7750/7710 SR—Supported Topologies, page 3-12](#)
- [Alcatel-Lucent 7750/7710 SR—Supported Modules, page 3-12](#)
- [Alcatel-Lucent 7750/7710 SR—Supported Technologies, page 3-13](#)
- [Alcatel-Lucent 7750/7710 SR—Supported Service Events, page 3-13](#)

Alcatel-Lucent 7750/7710 SR—Supported Software Versions

Table 3-12 *Supported Software Versions for Alcatel-Lucent 7750/7710 SR—Cisco ANA Version 3.7.2 and 3.7.3*

Software Version	ANA Version	DP Version
TiMOS-B-7.0.R4	3.7.2	3.0
TiMOS-C-7.0.R4	3.7.2	3.0
TiMOS-C-8.0.R7	3.7.2/3.7.3	5.0

Alcatel-Lucent 7750/7710 SR—Supported Topologies

Table 3-13 *Supported Topologies for Alcatel-Lucent 7750/7710 SR—Cisco ANA Version 3.7.2 and 3.7.3*

Topology Type	Link Type	ANA Version	DP Version
Ethernet	Ethernet	3.7.2	3.0

Alcatel-Lucent 7750/7710 SR—Supported Modules

Table 3-14 *Supported Modules for Alcatel-Lucent 7750/7710 SR—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA Version	Module Description	DP Version
M60-10/100ETH-TX	3.7.2	MDA 60 Ports 10/100 Ethernet TX	3.0
C5-1GB-XP-SFP	3.7.2	Compact MDA 5-Port 10/100/1000 Ethernet Extended Performance SFP	3.0

Table 3-14 *Supported Modules for Alcatel-Lucent 7750/7710 SR—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Module Name	ANA Version	Module Description	DP Version
M10-1GB-XP-SFP	3.7.2	MDA 10-Port 10/100/1000 Ethernet Extended Performance SFP	3.0
VSM-CCA	3.7.2	VSM Cross Connect	3.0
IOM-XP	3.7.2	7750 Extended Performance IOM	3.0
CFM-XP	3.7.2	7750 Extended Performance CFM	3.0
IOM2-20G	3.7.2	2x10-Gig MDA IOM Card	3.0
SFM2-200G	3.7.2	200G CPM/SF module	3.0
SFM2-400G	3.7.2/3.7.3	400G CPM/SF Module	5.0
M2-10GB-XFP	3.7.2/3.7.3	MDA 2-Port 10-Gig Ethernet XFP	5.0
M1-10GB-XFP	3.7.2/3.7.3	MDA 2 Ports 10Gig Ethernet XFP	5.0
M10-1GB-SFP-B	3.7.2/3.7.3	MDA 10 Ports 10/100/1000 Ethernet SFP	5.0

Alcatel-Lucent 7750/7710 SR—Supported Technologies

The following technologies are supported by the Alcatel-Lucent 7750/7710 SR in Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 3-20](#)
- [Routing Protocols, page 3-23](#)
- [Ethernet, page 3-23](#)
- [Hardware, page 3-24](#)
- [Serial, page 3-26](#)
- [MPLS, page 3-26](#)

Alcatel-Lucent 7750/7710 SR—Supported Service Events

Table 3-15 *Supported Service Events for Alcatel-Lucent 7750/7710 SR—Cisco ANA Version 3.7.2 and 3.7.3*

Event Name	ANA Version	Expedited	DP Version
Card In/Out	3.7.2	N	3.0
Link Down/Up	3.7.2	N	3.0
Device Unreachable	3.7.2	N	3.0
CPU Over Utilized	3.7.2	N	3.0

Table 3-15 *Supported Service Events for Alcatel-Lucent 7750/7710 SR—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Event Name	ANA Version	Expedited	DP Version
Device Unsupported	3.7.2	N	3.0
Module Unsupported	3.7.2	N	3.0
Port Flapping	3.7.2	N	3.0
Port Down	3.7.2	N	3.0
Card Up/Down	3.7.2	N	3.0

Alcatel-Lucent Intelligent Services Access Manager

This section includes the following information about Alcatel-Lucent ISAM devices (for information on the NE types supported in Cisco ANA Version 3.7.2/3.7.3, see [Alcatel-Lucent Intelligent Services Access Manager](#)):

This section contains the following topics:

- [Alcatel-Lucent ISAM—Supported Software Versions, page 3-14](#)
- [Alcatel-Lucent ISAM—Supported Topologies, page 3-15](#)
- [Alcatel-Lucent ISAM—Supported Modules, page 3-15](#)
- [Alcatel-Lucent ISAM—Supported Technologies, page 3-17](#)
- [Alcatel-Lucent ISAM—Supported Service Events, page 3-18](#)



Note

Alcatel ATM Subscriber Access Multiplexer device was already supported in the ANA version prior to 3.7.2.

Alcatel-Lucent ISAM—Supported Software Versions

Table 3-16 *Supported Software Versions for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3*

Software Version	ANA Version
2.0.0.16	3.7.2/3.7.3
2.3.1.15	3.7.2/3.7.3
2.4.2.4	3.7.2/3.7.3

Alcatel-Lucent ISAM—Supported Topologies

Table 3-17 Supported Topologies for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3

Topology Type	Link Type	ANA Version
ATM	ATM	3.7.2/3.7.3
Ethernet	Ethernet	3.7.2/3.7.3
Physical Layer	Physical Layer	3.7.2/3.7.3

Alcatel-Lucent ISAM—Supported Modules

Table 3-18 Supported Modules for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3

Module Name	ANA Version	Module Description
AACU-A	3.7.2/3.7.3	ADSL Alarm Control Unit version A (R3 equipment)
AACU-C	3.7.2/3.7.3	ADSL Alarm Control Unit version C (R4 equipment)
ABLT-D	3.7.2/3.7.3	MultiDSL POTS UD BVB LT standard version D
ABLT-E	3.7.2/3.7.3	Multi-DSL POTS Line Termination version E
ADLT-C	3.7.2/3.7.3	ADSL Line termination version C (4 lines)
ADLT-E	3.7.2/3.7.3	ADSL Line termination version E (4 lines)
ADLT-F	3.7.2/3.7.3	ADSL (Euro) Line termination version F (ISDN support, 4 lines)
ADLT-J	3.7.2/3.7.3	ADSL Line termination version J (12 lines)
ADLT-K	3.7.2/3.7.3	ADSL Line termination version K (12 lines)
ADLT-L	3.7.2/3.7.3	ADSL Line termination version L (24 lines)
ADLT-M	3.7.2/3.7.3	ADSL Line termination version M (12 lines)
ADLT-S	3.7.2/3.7.3	ADSL Line Termination version S - BVB enabled

Table 3-18 Supported Modules for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3

Module Name	ANA Version	Module Description
ADLT-W	3.7.2/3.7.3	ADSL Line Termination version W - POTS/BVB ready
ADSE-A	3.7.2/3.7.3	ADSL Serial Extender version A
ADSE-B	3.7.2/3.7.3	ADSL Serial Extender version B
ADSE-C	3.7.2/3.7.3	ADSL Serial Extender version C
AICC-A	3.7.2/3.7.3	IMA ATM E1-NT 2 Mits Controller Card
ASCC-P	3.7.2/3.7.3	PDH Interface Controller Card
ASCC-PE	3.7.2/3.7.3	PDH E3 Interface Controller Card
ASCC-S1	3.7.2/3.7.3	STM-1 Interface Controller Card
BSEC-A	3.7.2/3.7.3	Broad Band Shelf Extender Card
D1LT-A	3.7.2/3.7.3	DS1 Line termination version A
D1LT-B	3.7.2/3.7.3	4 T1 ports Using IMA Group
D3LT-A	3.7.2/3.7.3	DS3 Line termination version A
D3NT-A	3.7.2/3.7.3	DS3 Network Termination version A
D3NT-C	3.7.2/3.7.3	DS3 Network Termination version C
E1LT-A	3.7.2/3.7.3	E1 (IMA) Line Termination version A (4 lines)
E1NT-A	3.7.2/3.7.3	(Quad) E1 (IMA) Network Termination version A
E1NT-C	3.7.2/3.7.3	GANT-B motherboard and E1PL-B daughterboard (PLIM)
EBLT-A	3.7.2/3.7.3	ADSL2+ POTS Line Termination version A
EBLT-C	3.7.2/3.7.3	ADSL2+ POTS Line Termination version C
ECNT-A	3.7.2/3.7.3	7302 ISAM Combined network termination version A

Table 3-18 **Supported Modules for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3**

Module Name	ANA Version	Module Description
LTAC-C	3.7.2/3.7.3	Line Terminal ADSL Combiner Card
LTAC-D	3.7.2/3.7.3	Line Terminal ADSL Combiner Card
LTSC-A	3.7.2/3.7.3	Line Termination SHDSL Card
MACU-A	3.7.2/3.7.3	MiniRAM ACU version A
NBLC-A	3.7.2/3.7.3	Narrowband Line Card
SALT-A	3.7.2/3.7.3	1 Port OC3 Card
SALT-C	3.7.2/3.7.3	STM-1/OC3c (HCL based) Line Termination Unit version C
SANT-D	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version D
SANT-E	3.7.2/3.7.3	GANT-A motherboard and SONI-A daughterboard (PLIM)
SANT-F	3.7.2/3.7.3	GANT-B motherboard and SONI-A daughterboard (PLIM)
SANT-G	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version G
SHLT-B	3.7.2/3.7.3	SHDSL Line termination versioin B (12 lines)
SMLT-A	3.7.2/3.7.3	SHDSL Line termination version A (24 lines with IMA)
SMLT-B	3.7.2/3.7.3	SHDSL Line Termination Unit Version B(12 lines, with IMA)

Alcatel-Lucent ISAM—Supported Technologies

The following technologies are supported by the Alcatel-Lucent ISAM in Cisco ANA Version 3.7.2/3.7.3:

- [IP](#), page 3-20
- [ATM](#), page 3-20
- [Ethernet](#), page 3-23
- [xDSL](#), page 3-22
- [SONET/SDH](#), page 3-22
- [Hardware](#), page 3-24
- [Serial](#), page 3-26

- [Additional Technologies, page 3-27](#)

Alcatel-Lucent ISAM—Supported Service Events

Table 3-19 *Supported Service Events for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7.2/3.7.3	Y
All IP Interfaces Down	3.6.1	Y
BGP process up	3.7.2/3.7.3	N
Card Down	3.7.2/3.7.3	Y
Card In	3.7.2/3.7.3	Y
Card Out	3.7.2/3.7.3	Y
Card Up	3.7.2/3.7.3	Y
Cloud Problem	3.7.2/3.7.3	N
CPU utilization exceeded upper threshold	3.7.2/3.7.3	N
Device Unreachable	3.7.2/3.7.3	N
Device Unsupported	3.7.2/3.7.3	N
Interface status down flapping	3.7.2/3.7.3	Y
Interface status down flapping update	3.7.2/3.7.3	Y
Keepalive configured	3.7.2/3.7.3	N
Keepalive not configured	3.7.2/3.7.3	N
Layer 2 Tunnel Down	3.7.2/3.7.3	N
Link Down	3.7.2/3.7.3	N
Link up	3.7.2/3.7.3	N

Table 3-19 **Supported Service Events for Alcatel-Lucent ISAM—Cisco ANA Version 3.7.2/3.7.3**

Event Name	ANA Version	Expedited
Memory utilization exceeded upper threshold	3.7.2/3.7.3	N
Module Unsupported	3.7.2/3.7.3	N
Port Down	3.7.2/3.7.3	N
Port Flapping	3.7.2/3.7.3	N
Rx utilization exceeded upper threshold	3.7.2/3.7.3	N
Tx utilization exceeded upper threshold	3.7.2/3.7.3	N
VPN Leak	3.7.2/3.7.3	N

Supported Technologies on Alcatel-Lucent Devices

The following sections list the objects and attributes that are supported on Alcatel-Lucent devices in Cisco ANA Version 3.7.2 and 3.7.3 per technology:

This section contains the following topics:

- [IP, page 3-20](#)
- [ATM, page 3-20](#)
- [SONET/SDH, page 3-22](#)
- [TDM/DSx, page 3-22](#)
- [xDSL, page 3-22](#)
- [Routing Protocols, page 3-23](#)
- [Ethernet, page 3-23](#)
- [Hardware, page 3-24](#)
- [Serial, page 3-26](#)
- [MPLS, page 3-26](#)
- [Additional Technologies, page 3-27](#)

IP

Table 3-20 IP Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	ISAM
IMO Name—IIPInterface				
IP Address	Y	Y	Y	Y
Subnetwork Mask	Y	Y	Y	Y
IP Interface Addresses Array	Y	Y		
Interface Name	Y	Y	Y	Y
Interface Description			Y	Y
IP Interface State	Y	Y	Y	Y
IMO Name—IRoutingEntity				
Routing Table	Y	Y	Y	Y
Name	Y	Y		
Logical Sons	Y	Y		
Destination IP Subnet	Y	Y	Y	Y
Next Hop IP Address	Y	Y	Y	Y
Type	Y	Y	Y	Y
Routing Protocol Type	Y	Y	Y	Y
Outgoing Interface Name	Y	Y	Y	Y
IMO Name—IARP Entity				
ARP Table	Y		Y	Y
IMO Name—IARP Entry				
IP Address	Y		Y	Y
MAC Address	Y		Y	Y
Port	Y		Y	Y

ATM

Table 3-21 ATM Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	ISAM
IMO Name—IAtm				
Interface Type	Y			Y
VP and VC Ranges	Y			Y

Table 3-21 ATM Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	ISAM
VC Table	Y			Y
IMO Name—IAtmVc				
Virtual Channel Identifier	Y			Y
Virtual Path Identifier	Y			Y
Discarded and Received Input Data Counters	Y			Y
Dropped and Forward Output Data Counters	Y			Y
Ingress Traffic Descriptor	Y			Y
Egress Traffic Descriptor	Y			Y
Administrative Status	Y			Y
Operational Status	Y			Y
IMO Name—IAtmTrafficDescriptor				
Traffic Descriptor Type	Y			Y
Service Category	Y			Y
Cell Loss Priority	Y			Y
Cell Delay Variation	Y			Y
Cell Delay Variation Tolerance	Y			Y
Maximum High Priority and Aggregate Cell Rates	Y			Y
Minimum High Priority and Aggregate Cell Rates	Y			Y
Sustainable High Priority and Aggregate Cell Rates	Y			Y
Peak High Priority and Aggregate Cell Rates	Y			Y
Name	Y			Y
Index	Y			Y

SONET/SDH

Table 3-22 *SONET/SDH Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3*

Attribute	ASAM	7450 ESS	7705 SAR	ISAM
IMO Name—ISonetSdh				
Loopback Type	Y			Y

TDM/DSx

Table 3-23 *TDM/DSx Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.1*

Attribute	ASAM	7450 ESS	7705 SAR	ISAM
IMO Name—IDS1Pdh / IDS3Pdh				
Framing Type		Y		
Cell Mapping Type		Y ¹		
Scrambling Mode		Y ²		

^{1,2}Supported only for DS3

xDSL

Table 3-24 *xDSL Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3*

Attribute	ASAM	7450 ESS	7705 SAR	ISAM
IMO Name—IDsl / IIdsl / ISdsl / Ishdsl				
Customer Identification	Y			Y
Traffic Descriptor	Y			Y
IMO Name—IADsl				
Maximum Reception and Transmission Bandwidth	Y			Y
Same as IDsl	Y			

Routing Protocols

Table 3-25 Routing Protocols Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—IBgpNeighborEntry					
Remote Identifier			Y	Y	
Remote Address			Y	Y	
Remote Autonomous System			Y	Y	
Peer State			Y	Y	
Peer AdminState			Y	Y	
Hold Time			Y	Y	
Keep Alive Time			Y	Y	
IMO Name—IospfEntry					
Area Identifier			Y	Y	
IP Address			Y	Y	
Type			Y	Y	
Administrative Status			Y	Y	
Ospf Entry State			Y	Y	

Ethernet

Table 3-26 Ethernet Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—IEthernet					
MAC Address	Y	Y	Y	Y	Y
Port Type			Y	Y	Y
IMO Name—IIEEE802					
VLAN Identification	Y	Y			Y

Table 3-26 Ethernet Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—IEthernetChannel					
Group Number	Y	Y			
IANA Type	Y	Y			

Hardware

Table 3-27 Hardware Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—IChassis					
Description	Y		Y	Y	Y
Serial Number	Y		Y	Y	Y
IMO Name—IShelf					
Description		Y			
Status	Y	Y			
IMO Name—IModule					
Module Name		Y	Y	Y	Y
Module Description		Y	Y	Y	Y
Software Version		Y	Y	Y	Y
Operational Status		Y	Y	Y	
Hardware Type + Version		Y	Y	Y	
Redundant Equipment		Y			
Configured Redundancy		Y			
Redundancy Status		Y			Y
Operational Status Last Changed	Y	Y			Y
Supported Physical Termination Points		Y			Y
Serial Number (soft property)	Y	Y	Y	Y	Y
Fan Speed		Y	Y	Y	Y
Fan Status		Y	Y	Y	Y

Table 3-27 Hardware Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
Power type		Y	Y	Y	
Power AC status		Y	Y	Y	
Power DC Status		Y	Y	Y	Y
IMO Name—IManagedElement					
IP Address		Y	Y	Y	Y
Communication State	Y	Y	Y	Y	Y
Investigation State		Y	Y	Y	
Element Category		Y	Y	Y	
Element Type and Key	Y	Y	Y	Y	Y
Device Name	Y	Y	Y	Y	Y
System Name	Y	Y	Y	Y	Y
System Description	Y	Y	Y	Y	Y
Up Time	Y	Y	Y	Y	Y
Software Version	Y	Y	Y	Y	Y
Vendor Identity	Y	Y	Y	Y	Y
Memory and CPU Usage	Y	Y	Y	Y	Y
Sys Contact	Y		Y	Y	Y
Sys Location	Y		Y	Y	Y
Serial Number	Y		Y	Y	Y
IMO Name—ISystemService					
Up Time		Y			
IMO Name—IBridge					
MAC Address		Y			
IP Interface		Y			
Name		Y			
Logical Sons	Y	Y			
IMO Name—IBridgeEntry					
Destination MAC		Y			

Serial

Table 3-28 *Serial Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3*

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—IPhysicalLayer					
Media Type		Y	Y	Y	
Maximum Speed		Y	Y	Y	
Is Internal Port		Y			
Discarded and Received Input Data Counters		Y			Y
Dropped and Forward Output Data Counters		Y			Y
Administrative Status	Y	Y	Y	Y	Y
Operational Status	Y	Y	Y	Y	Y
Last Changed		Y	Y	Y	Y
IANA Type		Y			Y
Port Alias			Y	Y	
Location			Y	Y	
Status			Y	Y	

MPLS

Table 3-29 *MPLS Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3*

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—I Lse					
LDP Service			Y	Y	
IMO Name—I LdpService					
Local Identification Status			Y	Y	
Status			Y	Y	
LDP Peers			Y	Y	

Table 3-29 MPLS Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—ILdpPeer					
Peer Identification			Y	Y	
Transport Address			Y	Y	
Distribution Method			Y	Y	
Protocol Type			Y	Y	
Path Vector Limit			Y	Y	
Session Status			Y	Y	
Protocol Version Hold Time			Y	Y	
Hold Time			Y	Y	
Keep Alive Time			Y	Y	
Peer Discovery Sources			Y	Y	
IMO Name—ILdpDiscoverySource					
Source Address			Y	Y	
Type			Y	Y	

Additional Technologies

Table 3-30 Additional Technologies Attribute Support on Alcatel-Lucent Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	ASAM	7450 ESS	7705 SAR	7750/7710 SR	ISAM
IMO Name—POS					
POS					Y

