Support Information for Alcatel-Lucent Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Alcatel-Lucent devices in Prime Network Version 4.0.

Note For more information about the objects and attributes described in this chapter, see Cisco *Prime Network 4.0 Supported Cisco VNEs, Cisco Prime Network 4.0 Supported Service Alarms, Cisco Prime Network 4.0 Supported System and Security Events*, and *Cisco Prime Network 4.0 Supported Technologies and Topologies* in the *Cisco Prime Network 4.0 Documentation 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 Service Router, page 3-12
- Alcatel-Lucent Intelligent Services Access Manager, page 3-14
- Supported Technologies on Alcatel-Lucent Devices, page 3-18

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 Prime Network Version 4.0, 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 3-6

Note Alcatel ATM Subscriber Access Multiplexer device was already supported in the Prime Network (formely known as Cisco ANA) version prior to 3.7.2.

Alcatel-Lucent ASAM—Supported Software Versions

Table 3-1 Supported Software Versions for Alcatel-Lucent ASAM—Prime Network Version 4.0

Software Version	Product Version	DP Version
2.0.0.16	3.7.2/3.7.3	6.0
2.3.1.15	3.7.2/3.7.3	6.0
2.4.2.4	3.7.2/3.7.3	6.0
3.1.0	3.7.2/3.7.3	6.0
4.1.3.0	3.7.2/3.7.3	6.0
4.1.5.6	3.7.2/3.7.3	6.0
4.2.0.6	3.7.2/3.7.3	6.0
4.2.1.0	3.7.2/3.7.3	6.0
4.6.0.6	3.7.2/3.7.3	6.0
5.0.1.2	3.7.2/3.7.3	6.0
5.0.1.3	3.7.2/3.7.3	6.0
5.1.0.10	3.7.2/3.7.3	6.0
5.1.0.21	3.7.2/3.7.3	6.0

Alcatel-Lucent ASAM—Supported Topologies

Table 3-2 Supported Topologies for Alcatel-Lucent ASAM—Prime Network Version 4.0

Topology Type	Link Type	Product Version	DP Version
ATM	ATM	3.7.2/3.7.3	6.0
Ethernet	Ethernet	3.7.2/3.7.3	6.0
PPP/HDLC	PPP or HDLC	3.7.2/3.7.3	6.0

Alcatel-Lucent ASAM—Supported Modules

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
AACU-A	3.7.2/3.7.3	ADSL Alarm Control Unit version A (R3 equipment)	6.0

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
AACU-B	3.7.2/3.7.3	ADSL Alarm Control Unit version B	6.0
AACU-C	3.7.2/3.7.3	ADSL Alarm Control Unit version C (R4 equipment)	6.0
ABLT-D	3.7.2/3.7.3	MultiDSL POTS UD BVB LT standard version D	6.0
ABLT-E	3.7.2/3.7.3	Multi-DSL POTS Line Termination version E	6.0
ADLT-C	3.7.2/3.7.3	ADSL Line termination version C (4 lines)	6.0
ADLT-E	3.7.2/3.7.3	ADSL Line termination version E (4 lines)	6.0
ADLT-F	3.7.2/3.7.3	ADSL (Euro) Line termination version F (ISDN support, 4 lines)	6.0
ADLT-J	3.7.2/3.7.3	ADSL Line termination version J (12 lines)	6.0
ADLT-K	3.7.2/3.7.3	ADSL Line termination version K (12 lines)	6.0
ADLT-L	3.7.2/3.7.3	ADSL Line termination version L (24 lines)	6.0
ADLT-M	3.7.2/3.7.3	ADSL Line termination version M (12 lines)	6.0
ADLT-S	3.7.2/3.7.3	ADSL Line Termination version S - BVB enabled	6.0
ADLT-W	3.7.2/3.7.3	ADSL Line Termination version W - POTS/BVB ready	6.0
ADSE-A	3.7.2/3.7.3	ADSL Serial Extender version A	6.0
ADSE-B	3.7.2/3.7.3	ADSL Serial Extender version B	6.0
ADSE-C	3.7.2/3.7.3	ADSL Serial Extender version C	6.0
AICC-A	3.7.2/3.7.3	IMA ATM E1-NT 2 Mits Controller Card	6.0
ASCC-P	3.7.2/3.7.3	PDH Interface Controller Card	6.0
ASCC-PE	3.7.2/3.7.3	PDH E3 Interface Controller Card	6.0
ASCC-S1	3.7.2/3.7.3	STM-1 Interface Controller Card	6.0

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
ASPS-A	3.7.2/3.7.3	ADSL Splitter Subrack version A	6.0
BSEC-A	3.7.2/3.7.3	Broad Band Shelf Extender Card	6.0
D1LT-A	3.7.2/3.7.3	DS1 Line termination version A	6.0
D1LT-B	3.7.2/3.7.3	4 T1 ports Using IMA Group	6.0
D3LT-A	3.7.2/3.7.3	DS3 Line termination version A	6.0
D3NT-A	3.7.2/3.7.3	DS3 Network Termination version A	6.0
D3NT-C	3.7.2/3.7.3	DS3 Network Termination version C	6.0
E1LT-A	3.7.2/3.7.3	E1 (IMA) Line Termination version A (4 lines)	6.0
E1NT-A	3.7.2/3.7.3	(Quad) E1 (IMA) Network Termination version A	6.0
E1NT-C	3.7.2/3.7.3	GANT-B motherboard and E1PL-B daughterboard (PLIM)	6.0
EBLT-A	3.7.2/3.7.3	ADSL2+ POTS Line Termination version A	6.0
EBLT-C	3.7.2/3.7.3	ADSL2+ POTS Line Termination version C	6.0
ECNT-A	3.7.2/3.7.3	7302 ISAM Combined network termination version A	6.0
LTAC-C	3.7.2/3.7.3	Line Terminal ADSL Combiner Card	6.0
LTAC-D	3.7.2/3.7.3	Line Terminal ADSL Combiner Card	6.0
LTSC-A	3.7.2/3.7.3	Line Termination SHDSL Card	6.0
MACU-A	3.7.2/3.7.3	MiniRAM ACU version A	6.0
NBLC-A	3.7.2/3.7.3	Narrowband Line Card	6.0
SALT-A	3.7.2/3.7.3	1 Port OC3 Card	6.0
SALT-C	3.7.2/3.7.3	STM-1/OC3c (HCL based) Line Termination Unit version C	6.0

Table 3-3 Supported Modules for Alcatel-Lucent ASAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
SANT-D	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version D	6.0
SANT-E	3.7.2/3.7.3	GANT-A motherboard and SONI-A daughterboard (PLIM)	6.0
SANT-F	3.7.2/3.7.3	GANT-B motherboard and SONI-A daughterboard (PLIM)	6.0
SANT-G	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version G	6.0
SHLT-B	3.7.2/3.7.3	SHDSL Line termination versoion B (12 lines)	6.0
SMLT-A	3.7.2/3.7.3	SHDSL Line termination version A (24 lines with IMA)	6.0
SMLT-B	3.7.2/3.7.3	SHDSL Line Termination Unit Version B(12 lines, with IMA)	6.0
IPGW-A	3.7.2/3.7.3	IP Service Gateway	6.0
RPSP-A	3.7.2/3.7.3	Packet Subscriber profile version A	6.0

Alcatel-Lucent ASAM—Supported Technologies

The following technologies are supported by the Alcatel-Lucent ASAM in Prime Network Version 4.0:

- IP, page 3-19
- ATM, page 3-20
- SONET/SDH, page 3-21
- xDSL, page 3-21
- TDM/DSx, page 3-22
- Ethernet, page 3-24
- Hardware, page 3-24
- Serial, page 3-26

Alcatel-Lucent ASAM—Supported Service Events

Table 3-4 Supported Service Events for Alcatel-Lucent ASAM—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2/3.7.3	Y	6.0
All IP Interfaces Down	3.7.2/3.7.3	Y	6.0
BGP Neighbor Down	3.7.2/3.7.3	N	6.0
Card Down	3.7.2/3.7.3	Y	6.0
Card In	3.7.2/3.7.3	Y	6.0
Card Out	3.7.2/3.7.3	Y	6.0
Card Up	3.7.2/3.7.3	Y	6.0
Device Unreachable	3.7.2/3.7.3	N	6.0
Device Unsupported	3.7.2/3.7.3	N	6.0
Interface status down flapping	3.7.2/3.7.3	Y	6.0
Interface status down flapping update	3.7.2/3.7.3	Y	6.0
Link Down	3.7.2/3.7.3	N	6.0
Link up	3.7.2/3.7.3	N	6.0
Port Down	3.7.2/3.7.3	N	6.0
Port Flapping	3.7.2/3.7.3	N	6.0

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 Prime Network Version 4.0, 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 3-8
- Alcatel-Lucent 7450 ESS—Supported Technologies, page 3-9
- Alcatel-Lucent 7450 ESS—Supported Service Events, page 3-9

Alcatel-Lucent 7450 ESS—Supported Software Versions

Table 3-5 Supported Software Versions for Alcatel-Lucent 7450 ESS—Prime Network Version 4.0

Software Version	Product Version	DP Version
3.0.R1	3.7.2	1.0
TiMOS-B-3.0.R7	3.7.2	1.0
4.0.R5	3.7.2	1.0
TiMOS-C-5.0.R	3.7.2	3.0
TiMOS c7.0R4	3.8.x-To-3.9.x	DP1206
TiMOS-C-9.0.R8	3.8.x-To-3.9.x	DP1206

Alcatel-Lucent 7450 ESS—Supported Topologies

Table 3-6 Supported Topologies for Alcatel-Lucent 7450 ESS—Prime Network Version 4.0

Topology Type	Link Type	Product 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—Prime Network Version 4.0

Module Name	Product 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
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
IOM-20G-B	3.8.x-To-3.9.x	2 x 10-Gig MDA IOM Card, B	DP1206
M20-1GB-SFP	3.8.x-To-3.9.x	MDA 20 Ports 10/100/1000 Ethernet SFP	DP1206
M2-10GB-XFP	3.8.x-To-3.9.x	MDA 2 Ports 10Gig Ethernet XFP	DP1206
M1-10GB-XFP	3.8.x-To-3.9.x	MDA 1 Ports 10Gig Ethernet XFP	DP1206
IOM3-XP-50G	3.8.x-To-3.9.x	IOM3-XP-50G	DP1206
2-PT 10G MDA-XP XFP	3.8.x-To-3.9.x	2-PT 10G MDA-XP XFP	DP1206

Table 3-7 Supported Modules for Alcatel-Lucent 7450 ESS—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
20 PT GE MDA-XP SFP	3.8.x-To-3.9.x	20 PT GE MDA-XP SFP	DP1206

Alcatel-Lucent 7450 ESS—Supported Technologies

The following technologies are supported by the Alcatel-Lucent 7450 ESS in Prime Network Version 4.0:

- IP, page 3-19
- Ethernet, page 3-24
- Hardware, page 3-24
- Serial, page 3-26

Alcatel-Lucent 7450 ESS—Supported Service Events

Supported Service Events for Alcatel-Lucent 7450 ESS—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.6.0	Y	
All IP Interfaces Down	3.6.0	Y	
BGP Neighbor Down	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	
Device Unreachable	3.6.0	N	
Device Unsupported	3.6.0	N	
Interface status down flapping	3.6.0	Y	
Interface status down flapping update	3.6.0	Y	
Link Down	3.6.0	N	
Link up	3.6.0	N	
Port Down	3.6.0	N	
Port Flapping	3.6.0	N	

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 Prime Network Version 4.0, 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—Prime Network Version 4.0

Software Version	Product Version	DP Version
TiMOS-B-3.0.R1	3.7.2	3.0
5.0R2	4.0	1308

Alcatel-Lucent 7705 SAR—Supported Topologies

Table 3-9 Supported Topologies for Alcatel-Lucent 7705 SAR—Prime Network Version 4.0

Topology Type	Link Type	Product 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—Prime Network Version 4.0

Module Name	Product 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

Table 3-10 Supported Modules for Alcatel-Lucent 7705 SAR—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
IOM-1G	3.7.2	1g 7705 IOM	3.0
CSM-1G	3.7.2	1g 7705 CSM	3.0
a8-1gb-sfp	4.0	a8-1gb-sfp	1308
a32-chds1v2	4.0	a32-chds1v2	1308

Alcatel-Lucent 7705 SAR—Supported Technologies

The following technologies are supported by the Alcatel-Lucent 7705 SAR in Prime Network Version 4.0:

- IP, page 3-19
- Routing Protocols, page 3-23
- Ethernet, page 3-24
- Hardware, page 3-24
- Serial, page 3-26
- MPLS, page 3-27

Alcatel-Lucent 7705 SAR—Supported Service Events

Table 3-11 Supported Service Events for Alcatel-Lucent 7705 SAR—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2	Y	3.0
All IP Interfaces Down	3.7.2	Y	3.0
Card In	3.7.2	Y	3.0
Card Out	3.7.2	Y	3.0
Device Unreachable	3.7.2	N	3.0
Device Unsupported	3.7.2	N	3.0
Interface Status Down/Up	3.7.2	N	3.0
Link Down	3.7.2	N	3.0
Link up	3.7.2	N	3.0

Alcatel-Lucent 7750 Service Router

This section includes the following information about Alcatel-Lucent 7750 SR devices (for information on the NE types supported in Prime Network Version 4.0, see the Alcatel-Lucent 7750 Service Router):

This section contains the following topics:

- Alcatel-Lucent 7750 SR—Supported Software Versions, page 3-12
- Alcatel-Lucent 7750 SR—Supported Topologies, page 3-12
- Alcatel-Lucent 7750 SR—Supported Modules, page 3-12
- Alcatel-Lucent 7750 SR—Supported Technologies, page 3-13
- Alcatel-Lucent 7750 SR—Supported Service Events, page 3-13

Alcatel-Lucent 7750 SR—Supported Software Versions

Table 3-12 Supported Software Versions for Alcatel-Lucent 7750 SR—Prime Network Version 4.0

Software Version	Product 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 SR—Supported Topologies

Table 3-13 Supported Topologies for Alcatel-Lucent 7750 SR—Prime Network Version 4.0

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

Alcatel-Lucent 7750 SR—Supported Modules

Table 3-14 Supported Modules for Alcatel-Lucent 7750 SR—Prime Network Version 4.0

Module Name	Product 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
M10-1GB-XP-SFP	3.7.2	MDA 10-Port 10/100/1000 Ethernet Extended Performance SFP	3.0

Table 3-14 Supported Modules for Alcatel-Lucent 7750 SR—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
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 SR—Supported Technologies

The following technologies are supported by the Alcatel-Lucent 7750 SR in Prime Network Version 4.0:

- IP, page 3-19
- Routing Protocols, page 3-23
- Ethernet, page 3-24
- Hardware, page 3-24
- Serial, page 3-26
- MPLS, page 3-27

Alcatel-Lucent 7750 SR—Supported Service Events

Table 3-15 Supported Service Events for Alcatel-Lucent 7750 SR—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2	Y	3.0
All IP Interfaces Down	3.7.2	Y	3.0
Card In	3.7.2	Y	3.0
Card Out	3.7.2	Y	3.0
Device Unreachable	3.7.2	N	3.0
Device Unsupported	3.7.2	N	3.0

Table 3-15 Supported Service Events for Alcatel-Lucent 7750 SR—Prime Network Version 4.0 (Continued)

Event Name	Product Version	Expedited	DP Version
Interface Status Down/Up	3.7.2	N	3.0
Link Down	3.7.2	N	3.0
Link up	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 Prime Network Version 4.0, 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 3-14
- Alcatel-Lucent ISAM—Supported Modules, page 3-15
- Alcatel-Lucent ISAM—Supported Technologies, page 3-17
- Alcatel-Lucent ISAM—Supported Service Events, page 3-17

Note Alcatel ATM Subscriber Access Multiplexer device was already supported in the Prime Network (formely known as Cisco ANA) prior to 3.7.2.

Alcatel-Lucent ISAM—Supported Software Versions

Table 3-16 Supported Software Versions for Alcatel-Lucent ISAM—Prime Network Version 4.0

Software Version	Product Version	DP Version
2.0.0.16	3.7.2/3.7.3	6.0
2.3.1.15	3.7.2/3.7.3	6.0
2.4.2.4	3.7.2/3.7.3	6.0

Alcatel-Lucent ISAM—Supported Topologies

Table 3-17 Supported Topologies for Alcatel-Lucent ISAM—Prime Network Version 4.0

Topology Type	Link Type	Product Version	DP Version
ATM	ATM	3.7.2/3.7.3	6.0

Table 3-17 Supported Topologies for Alcatel-Lucent ISAM—Prime Network Version 4.0

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2/3.7.3	6.0
Physical Layer	Physical Layer	3.7.2/3.7.3	6.0

Alcatel-Lucent ISAM—Supported Modules

Table 3-18 Supported Modules for Alcatel-Lucent ISAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
AACU-A	3.7.2/3.7.3	ADSL Alarm Control Unit version A (R3 equipment)	6.0
AACU-C	3.7.2/3.7.3	ADSL Alarm Control Unit version C (R4 equipment)	6.0
ABLT-D	3.7.2/3.7.3	MultiDSL POTS UD BVB LT standard version D	6.0
ABLT-E	3.7.2/3.7.3	Multi-DSL POTS Line Termination version E	6.0
ADLT-C	3.7.2/3.7.3	ADSL Line termination version C (4 lines)	6.0
ADLT-E	3.7.2/3.7.3	ADSL Line termination version E (4 lines)	6.0
ADLT-F	3.7.2/3.7.3	ADSL (Euro) Line termination version F (ISDN support, 4 lines)	6.0
ADLT-J	3.7.2/3.7.3	ADSL Line termination version J (12 lines)	6.0
ADLT-K	3.7.2/3.7.3	ADSL Line termination version K (12 lines)	6.0
ADLT-L	3.7.2/3.7.3	ADSL Line termination version L (24 lines)	6.0
ADLT-M	3.7.2/3.7.3	ADSL Line termination version M (12 lines)	6.0
ADLT-S	3.7.2/3.7.3	ADSL Line Termination version S - BVB enabled	6.0
ADLT-W	3.7.2/3.7.3	ADSL Line Termination version W - POTS/BVB ready	6.0
ADSE-A	3.7.2/3.7.3	ADSL Serial Extender version A	6.0
ADSE-B	3.7.2/3.7.3	ADSL Serial Extender version B	6.0

Table 3-18 Supported Modules for Alcatel-Lucent ISAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
ADSE-C	3.7.2/3.7.3	ADSL Serial Extender version C	6.0
AICC-A	3.7.2/3.7.3	IMA ATM E1-NT 2 Mits Controller Card	6.0
ASCC-P	3.7.2/3.7.3	PDH Interface Controller Card	6.0
ASCC-PE	3.7.2/3.7.3	PDH E3 Interface Controller Card	6.0
ASCC-S1	3.7.2/3.7.3	STM-1 Interface Controller Card	6.0
BSEC-A	3.7.2/3.7.3	Broad Band Shelf Extender Card	6.0
D1LT-A	3.7.2/3.7.3	DS1 Line termination version A	6.0
D1LT-B	3.7.2/3.7.3	4 T1 ports Using IMA Group	6.0
D3LT-A	3.7.2/3.7.3	DS3 Line termination version A	6.0
D3NT-A	3.7.2/3.7.3	DS3 Network Termination version A	6.0
D3NT-C	3.7.2/3.7.3	DS3 Network Termination version C	6.0
E1LT-A	3.7.2/3.7.3	E1 (IMA) Line Termination version A (4 lines)	6.0
E1NT-A	3.7.2/3.7.3	(Quad) E1 (IMA) Network Termination version A	6.0
E1NT-C	3.7.2/3.7.3	GANT-B motherboard and E1PL-B daughterboard (PLIM)	6.0
EBLT-A	3.7.2/3.7.3	ADSL2+ POTS Line Termination version A	6.0
EBLT-C	3.7.2/3.7.3	ADSL2+ POTS Line Termination version C	6.0
ECNT-A	3.7.2/3.7.3	7302 ISAM Combined network termination version A	6.0
LTAC-C	3.7.2/3.7.3	Line Terminal ADSL Combiner Card	6.0
LTAC-D	3.7.2/3.7.3	Line Terminal ADSL Combiner Card	6.0
LTSC-A	3.7.2/3.7.3	Line Termination SHDSL Card	6.0

Table 3-18 Supported Modules for Alcatel-Lucent ISAM—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
MACU-A	3.7.2/3.7.3	MiniRAM ACU version A	6.0
NBLC-A	3.7.2/3.7.3	Narrowband Line Card	6.0
SALT-A	3.7.2/3.7.3	1 Port OC3 Card	6.0
SALT-C	3.7.2/3.7.3	STM-1/OC3c (HCL based) Line Termination Unit version C	6.0
SANT-D	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version D	6.0
SANT-E	3.7.2/3.7.3	GANT-A motherboard and SONI-A daughterboard (PLIM)	6.0
SANT-F	3.7.2/3.7.3	GANT-B motherboard and SONI-A daughterboard (PLIM)	6.0
SANT-G	3.7.2/3.7.3	Synchronous (STM1) ATM Network Termination version G	6.0
SHLT-B	3.7.2/3.7.3	SHDSL Line termination versoion B (12 lines)	6.0
SMLT-A	3.7.2/3.7.3	SHDSL Line termination version A (24 lines with IMA)	6.0
SMLT-B	3.7.2/3.7.3	SHDSL Line Termination Unit Version B(12 lines, with IMA)	6.0

Alcatel-Lucent ISAM—Supported Technologies

The following technologies are supported by the Alcatel-Lucent ISAM in Prime Network Version 4.0:

- IP, page 3-19
- ATM, page 3-20
- Ethernet, page 3-24
- xDSL, page 3-21
- SONET/SDH, page 3-21
- Hardware, page 3-24
- Serial, page 3-26
- Additional Technologies, page 3-28

Alcatel-Lucent ISAM—Supported Service Events

Table 3-19 Supported Service Events for Alcatel-Lucent ISAM—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.6.0	Y	
All IP Interfaces Down	3.6.1	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	
Cloud Problem	3.6.0	N	
CPU utilization exceeded upper threshold	3.6.0	N	
Device Unreachable	3.6.0	N	
Device Unsupported	3.6.0	N	
Interface status down flapping	3.6.0	Y	
Interface status down flapping update	3.6.0	Y	
Keepalive configured	3.6.0		
Keepalive not configured	3.6.0		
Layer 2 Tunnel Down	3.6.0	N	
Link Down	3.6.0	N	
Link up	3.6.0	N	
Memory utilization exceeded upper threshold	3.6.0		
Module Unsupported	3.6.0	N	
Port Down	3.6.0	N	
Port Flapping	3.6.0	N	
Rx utilization exceeded upper threshold	3.6.0	N	
Tx utilization exceeded upper threshold	3.6.0	N	
VPN Leak	3.6.0	N	

Supported Technologies on Alcatel-Lucent Devices

The following sections list the objects and attributes that are supported on Alcatel-Lucent devices in Prime Network Version 4.0 per technology:

This section contains the following topics:

- IP, page 3-19

- ATM, page 3-20
- SONET/SDH, page 3-21
- xDSL, page 3-21
- xDSL, page 3-21
- Routing Protocols, page 3-23
- Ethernet, page 3-24
- Hardware, page 3-24
- Serial, page 3-26
- MPLS, page 3-27
- Additional Technologies, page 3-28

IP

Table 3-20 IP Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IIPInterface					
IP Address	Y	Y	Y	Y	Y
Subnetwork Mask	Y	Y	Y	Y	Y
IP Interface Addresses Array	Y	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	Y
ARP Entity	Y				Y
Routing Table Changes	Y				
Name	Y				Y
Logical Sons	Y				Y
IMO Name—IRoutingEntry					
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	Y	Y	Y	Y	Y
IMO Name—IARP Entity					
ARP Table	Y	Y	Y	Y	Y

Table 3-20 IP Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IARP Entry					
IP Address	Y	Y	Y	Y	Y
MAC Address	Y	Y	Y	Y	Y
Port	Y	Y	Y	Y	Y
Entry Type	Y				Y

ATM

Table 3-21 ATM Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IAtm					
Interface Type	Y				Y
VP and VC Ranges	Y				Y
VC Table	Y				Y
CAC profiles	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

Table 3-21 ATM Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
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—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—ISonetSdh					
Loopback Type	Y				Y

xDSL

Table 3-23 xDSL Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IDsl / IIdsl / ISdsl / Ishdsl					
Customer Identification	Y				Y
Traffic Descriptor	Y				Y

Table 3-23 xDSL Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IADsl					
Maximum Reception and Transmission Bandwidth	Y				Y
Same as IDsl	Y				
IMO Name—IADsl2					
Spectrum Traffic Descriptor					Y
Traffic Descriptor					Y
Same as IADsl					Y
IMO Name—IAdsItraTrafficDescriptor					
Max, Min and Target Transmission and Reception Noise Margins					Y
Max Transmission Power Spectral Density					Y
Channel type					Y
Name					Y
Index					Y
IMO Name—IAdsl2SpectrumTrafficDescriptor					
Max, Min and Target Transmission and Reception Noise Margins					Y
Max, Min and Planned Target Transmission and Reception Bit Rates					Y
Name					Y
Index					Y

TDM/DSx

Table 3-24 TDM/DSx Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IDS1Pdh / IDS3Pdh					
Framing Type	Y				

Table 3-24 TDM/DSx Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
Cell Mapping Type	Y				
Scrambling Mode	Y				
clocking	Y				
loopback	Y				

Routing Protocols

Table 3-25 Routing Protocols Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

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

Ethernet

Table 3-26 Ethernet Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IEthernet					
MAC Address		Y	Y	Y	Y
Port Type			Y	Y	
IANA Type					Y
IMO Name—IVlanInterface					
Native VLAN Identification		Y			
vlanencapType		Y			
IMO Name—IIEEE802					
VLAN Identification		Y			Y
IANA Type					Y
IMO Name—IEthernetChannel					
Group Number		Y			
IANA Type		Y			

Hardware

Table 3-27 Hardware Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IChassis					
Description	Y		Y	Y	Y
Equipment Holder Type	Y				Y
Serial Number	Y		Y	Y	
IMO Name—IShelf					
Description		Y			Y
Status	Y	Y			Y
Equipment Holder Type					Y
IMO Name—IModule					
Module Name		Y	Y	Y	Y
Module Description	Y	Y	Y	Y	Y

Table 3-27 Hardware Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0 (Continued)

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
Software Version		Y	Y	Y	Y
Operational Status	Y	Y	Y	Y	Y
Hardware Type & Version		Y	Y	Y	Y
Managed IP Address					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	
Fan Status			Y	Y	
Power type			Y	Y	
Power AC status			Y	Y	
Power DC Status			Y	Y	
IMO Name—IManagedElement					
IP Address	Y	Y	Y	Y	Y
Communication State	Y	Y	Y	Y	Y
Investigation State	Y	Y	Y	Y	Y
Element Category	Y	Y	Y	Y	Y
Element Type and Key	Y	Y	Y	Y	Y
Device Name	Y	Y	Y	Y	Y
Device Series	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	
Sys Contact	Y		Y	Y	
Sys Location	Y		Y	Y	
Serial Number			Y	Y	

Table 3-27 Hardware Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0 (Continued)

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—ISystemService					
Up Time		Y			Y
IMO Name—IBridge					
MAC Address		Y			
IP Interface		Y			
Name		Y			
Logical Sons		Y			
IMO Name—IBridgeEntry					
Destination MAC		Y			Y
Outgoing Interface					Y

Serial

Table 3-28 Serial Attribute Support on Alcatel-Lucent Devices—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—IPhysicalLayer					
Media Type		Y	Y	Y	Y
Clocking Source					Y
Maximum Speed		Y	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	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—Prime Network Version 4.0

Attribute	ASAM	7450 ESS	7705 SAR	7750 SR	ISAM
IMO Name—ILse					
LDP Service			Y	Y	
IMO Name—ILdpService					
Local Identification Status			Y	Y	
Status			Y	Y	
LDP Peers			Y	Y	
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—Prime Network Version 4.0

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