

Alcatel 7302 ISAM

Network Compatibility Disclosure Document

Appendix 1

To

Alcatel1000 ADSL (Asymmetric Digital Subscriber Line)
and
7300 ASAM (Advanced Services Access Manager)
document

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1. Alcatel 7302 ISAM.

This document gives an overview to exceptions to features described in “Interface Specification Document for Alcatel 1000 and Alcatel 7300 ASAM” and gives information on additional functionality in the Alcatel 7302 ISAM compared to the Alcatel 1000 ADSL and Alcatel 7300 ASAM.

Alcatel 7302 ISAM is Alcatel's 3d generation DSLAM, offering DSL services in an Ethernet/IP environment.

2. Deviations from main “Interface Specification” document

The “Interface Specification Document” describing Alcatel 7300 ASAM and A1000 ADSL is relevant for the Alcatel 7302 ISAM except for the following parts:

Reference part	Comment
Part 3.3 page 14	SHDSL supported, including ITU-T G.991.2 amendment from July 2005. “SHDSL.bis” functionality; 16-TCPAM and 32-TCPAM coding modes supported. ATM and PTM (64/65b) according to G.991.2 supported.
Part 19.1 page 40	ITU-T G.993.2 VDSL2 standard supported. ATM transport in VDSL2 not supported. Packet Transfer mode according to ITU-T G.993.2 (“Ethernet First Mile”) supported.
Part B.3 page 46	OAM F4 cells not used. VP or VC crossconnect from subscriber line to uplink not used (Ethernet uplinks are used). OAM F5 loop settings on subscriber lines may be triggered from the management console
Part B.3 page 47	Features related to ATM on DSLAM uplinks not supported (Ethernet uplinks are used)
Part B.4 page 48	Not applicable to Alcatel 7302 ISAM
Part B.5 page 49	Not applicable to Alcatel 7302 ISAM
Annex C Page 51	Note that in the 7302 ISAM, SHDSL-ports may use, and VDSL2-ports uses, “Ethernet First Mile” (64/65b) PTM transport mode on the subscriber link
Annex C page 51	The 7302 ISAM may support various framing modes on ADSL(2plus), including the Ethernet over ATM mode described in this annex (RFC 2684 bridged encapsulation), IP over ATM (RFC 2684 routed encapsulation), PPP over Ethernet (over ATM) and PPP over ATM modes

3. Additional functionality of the Alcatel 7302 ISAM.

Below are given brief information on some additional functionality on subscriber line interfaces which is supported by the Alcatel 7302 ISAM.

ADSL/ADSL2/ADSL2plus

- "L2" power backoff mode and "Seamless Rate Adaption" mode according to ITU-T G.992.3/G.992.5 can be supported (dependant on software release)
- Possibility of bonding two subscriber lines, ref. ITU-T G.988.1 (dependant on software release)
- ITU-T G.992.3/992.5 Annex M can be supported on "POTS" line cards

SHDSL

Supported transport modes:

- ATM transport 2- and 4-wire mode
- ATM IMA mode with up to 4 pairs
- Support of ITU-T G.991.2 Packet Transfer Mode/"EFM", 2- and 4-wire mode

VDSL2

- Possibility of bonding two subscriber lines, ref. ITU-T G.988.1 (dependant on software release)
- Upstream Power Backoff supported

Note:

The capabilities of the Alcatel 7302 ISAM may vary over time and is dependant on hardware and software versions being used. For exact information on supported features at a given time, in a given location, please contact the owner of the equipment or Alcatel.

For verification of compatibility between Alcatel DSLAMs and CPE's Alcatel also cooperates with independent DSL Forum approved test laboratories to enable these test laboratories to perform compatibility tests with Alcatel DSLAMs.