

WAN / STANDARDS

PPPoE and IPoE

802.1q trunking

802.1p traffic classification

ADSL(Annex A):ANSI T1.413-1998

ADSL(Annex A):ITU-T G992.1 (G.dmt)

ADSL2(Annex A):ITU-T G992.3

ADSL2 ITU-T G992.3 Annex L (G.dmt.bis)

ADSL2+ ITU-T G992.5 ANNEXM (extended upstream bandwidth)

VDSL:ITU-T G993.1

VDSL2:ITU-T G993.2

VDSL2: ITU-T G.993.5 (Vectoring)

VDSL2: ITU-T G.993.2 (2015) Amd.1 Annex Q (profile 35b)

DSL Line : Support 8b, 12a, 17a band profiles

DSL Line : Support 30a band profile

DSL Line : Support VDSL, Annex A, 997, 998 (998-M2X-A, 998ADE17-M2X-B) band plan

DSL Line : Support Upstream power backoff (UPBO)

DSL Line : Support Downstream power backoff (DPBO)

Impulse noise protection (INP) and extended INP

Seamless Rate Adaptation (SRA)

SNR indicator

ATM mode

PTM mode

Trellis coding

Bitswapping

DNS Conditional Forwarding : Forward to appropriate WAN connection DNS Servers.

PPP PAP/CHAP Authentication, PAP is the minimum requirement

QoS : Priority Queue for Voice Traffic (all interfaces)

QoS : CBWFQ for IP Traffic QoS (all interfaces)

QoS : Marking, Shaping, Policing of traffic (all interfaces)

VOICE / STANDARDS

RFC 3261, SIP: Session Initiation Protocol

RFC 2327, SDP: Session Description Protocol

RFC 3264, An Offer/Answer Model with the Session Description Protocol (SDP)

RFC 3550, RTP: A Transport Protocol for Real-Time Applications

RFC 3263, Session Initiation Protocol (SIP):
Locating SIP Servers (Primary/Secondary (two) outbound SIP proxies should be supported at minimum)

RFC 2782, A DNS RR for specifying the location of services

Support of local media

Dial plan support for overdecadic digits (e.g. Features Access Codes)

SIP ALG

RFC2833/4733

RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals

Reliable Provisional Responses Support (RFC3262)

NAPTR - DNS SRV records support & DNS A-record lookup support (RFC 2915)

RFC3311 - The Session Initiation Protocol (SIP) UPDATE Method

RFC3960 - Early Media and Ringing Tone Generation in the Session Initiation Protocol (SIP)

RFC5009 - Private Header (P-Header) Extension to the Session Initiation Protocol (SIP) for
Authorization of Early Media - RECOMMENDED