

# TLN WRO Architecture type Document

< Glossary List and Symbols >



# telenet

Document Housekeeping

### Document Category and type

CAT	TYPE	DOC ID	Comment
General	ARCH	TLN_WRO_TA_G_M_PAAA	Architecture type documents (ARCH) mainly have an informational/explanatory purpose to highlight the overall technical set-up.

### Document Status

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## 1 Abstract

This document provides a definition of abbreviations that are very broadly used in multiple technical documents that form the TLN WRO. As such the abbreviations, included in this document are not repeated in the individual documents anymore.

## 2 Glossary and Abbreviations

AAA: Authentication, Authorization and Accounting  
AC3: Audio Compression 3  
ACK: Acknowledgement  
ADR: Audit Detailed Record  
AIDTV: Annex Interactive Services  
AO: Alternative Operator  
API: Application Programming Interface  
AS: Autonomous System  
BB: Broadband  
BER: Bit Error Rate  
BGP: Border Gateway Protocol  
BSoD: Business Services over DOCSIS  
BSS: Business Support Systems  
BW: Bandwidth  
CAS: Conditional Access System  
CAT: Conditional Access Table  
CBR: Constant Bit Rate  
CDN: Cable Delivery Network or Content Delivery Network (in case of VOD IP)  
CDR: Call Detail Record  
CE: European Conformity  
CFE: Cable Front End  
CM: Cable modem  
CMS: Content Management System  
CMTS: Cable Modem Termination System  
CoC: Code of Conduct  
CPE: Customer Premises Equipment  
CPPS: CAS Proxy Provisioning Server  
CRM: Customer Relationship Management or Content Resource Management  
CSP: Content Service Provider  
CWDM: Coarse Wavelength Division Multiplexing  
DAT: Detailed Acceptance Test  
DB: Data base  
dB: Decibel  
DOS: Denial of service  
DEMUX: De-Multiplexer  
DHCP: Dynamic Host Configuration Protocol  
DOCSIS: Data over Cable Service Interface Specification  
DRM: Digital Rights Management  
DS: Downstream  
DSL: Digital Subscriber Line  
DTV: Digital Television  
DVB-C: Digital Video Broadcasting - Cable  
E2E: End to End  
EC: European Committee  
ECM: Entitlement Control Messages  
EEA: European Economic Area  
EIT: Event Information Table  
EMM: Entitlement Management Messages  
EN: European Standards  
EPG: Electronic Program Guide  
EPR: Engineering Production Run  
ETSI: European Telecommunications Standards Institute  
FM: Frequency Modulation  
FSCK: File System Consistency Check  
FTP: File Transmission Protocol  
FUP: Fair Use Policy  
GOP: Group Of Pictures  
HD: High Definition

HDTV: High Definition TV  
HE: Head-end  
HFC: Hybrid Fiber Coax  
HGW: Home Gateway  
HRC: Harmonic Related Carrier  
HSRP: Hot Standby Router Protocol  
HVAC: Heating, Ventilation and Air-Conditioning  
HW: Hardware  
ID: Identifier  
IDR: Instantaneous Decoding Refresh  
iDTV: Interactive Digital Television  
IEC: International Engineering Consortium  
IES: Internet Enhanced Service  
IP: Internet Protocol  
IPv4: Internet Protocol version 4  
IPv6: Internet Protocol version 6  
IPSEC: Internet Protocol Security  
IPTV: Internet Protocol Television  
IP-VPN: Internet Protocol - Virtual Private Network  
IRD: Integrated Receiver Decoder  
IT: Information Technology  
kbps: Kilobit per Second  
L2VPN: Layer 2 Virtual Private Network  
LACP: Link Aggregation Control Protocol  
LAG: Link Aggregation Group  
LAN: Local Access Network  
LDAP: Lightweight Data Access Protocol  
LEA: Law Enforcement Agency  
LED: Light Emitting Diode  
M2M: Machine-to-Machine  
MAC: Media Access Control  
Mbps: Megabit per Second  
Mgmt: Management  
MHP: Multimedia Home Platform  
MIB: Management Information Base  
MPEG: Moving Picture Experts Group  
MPEG-2: MPEG Group 2 (Standard - Compressed Video at 4-9 Mbps)  
MPEG-4: MPEG Group 4 (Standard - Compressed Video at 64 kbps)  
MPR: Mass Production Run  
MPTS: Multi-program Transport Stream (mpeg2)  
MSO: Multiple Systems Operator  
MUX: Multiplex  
NCP: Network Control Platform  
NE: Network Element  
NIT: Network Information Table  
NIU: Network Interface Unit  
NOC-H: Network Operations Center - Hoboken  
NOC-M: Network Operations Center - Mechelen  
OAM: Operations and Maintenance  
OSS: Operation Support Systems  
PAL: Phase Alternation Line  
PAT: Program Association Table  
PBR: Policy Based Routing  
PC: Personal Computer  
PCR: Program Change Request  
PID: Program Identifier  
PEP: Policy Enforcement Point  
PKI: Public Key Infrastructure/Information  
PMT: Program Map Table  
POI: Point of Interconnect

PPV: Pay per View  
PSI: Program Specific Information  
PVR: Personal Video Recorder  
QAM: Quadrature Amplitude Modulation  
QPSK: Quadrature Phase Shift Keying  
QOS: Quality of service.  
RADIUS: Remote Access Dial-In User Server  
RCU: Remote Control Unit  
RF: Radio Frequency  
RFC: Request for Comments  
RIZ: Regional Interconnect Zones  
ROBB: Reference Offer Broadband Services  
RoHS: Restriction of Hazardous Substances  
ROTV: Reference Offer Basic TV  
RPOI: Regional point of interconnection  
RT: Real Time  
RTR: Router  
RTSP: Real Time Streaming Protocol  
SAS: Subscriber Authorization System  
SC: Smartcard  
S-CDMA: Synchronous Code Division Multiple Access  
SD: Standard definition  
SDI: Serial Digital Interface  
SDT: Service Description Table  
SDTV: Standard Definition Television  
SECAM: Sequential Color with Memory  
SI: Service Information  
SID: System Identifier  
SIG: Service Integration Gateway  
SMS: Subscriber Management System  
SNMP: Single Network Management Protocol  
SNR: Signal to Noise Ratio  
SO: Switching Offices  
SOW: Statement of Work  
SPS: Service Provisioning System  
SPTS: Single Program Transport Stream  
STB: Set top box  
SW: Software  
TC: Transaction Count  
TFTP: Trivial File Transfer Protocol  
TLN: (Wholesale operator) Telenet  
TLV: Type/Length/Value  
TOD: Time of day  
TS: Transport Stream  
TV: Television  
UHF: Ultra High Frequency  
UI: User Interface  
US: Upstream  
UTP: Unshielded Twisted Pair  
VDP: Video Data Pump  
VHE: Video Head end  
VHF: Video High Frequency  
VoD or VOD: Video on Demand  
VOD IP or VOD-IP: Video on Demand over Internet Protocol  
VOD DVB-C or VOD-DVB-C: Video on Demand over Digital Video Broadcasting - Cable  
VLAN: Virtual Local Area Network  
VPLS: Virtual Private Lan Service  
VPN: Virtual Private Network  
VRRP: Virtual Router Redundancy Protocol  
VSA: VoD Serving Area



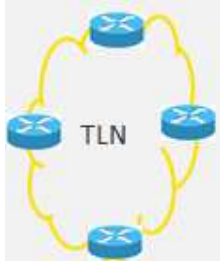
VSP: VoD Serving Proxy  
VUI: Video User Interface  
WAN: Wide Area Network  
WEEE: Waste Electrical and Electronics Equipment  
WIFI: Wireless Fidelity  
WO: Wall Outlet  
WRO: Wholesale Reference Offer  
WS-BNG: Wholesale Broadband Network Gateway  
XML: Extensible Markup Language  
xWDM: non-specific form of Wavelength Division Multiplexing

### 3 Graphical symbols



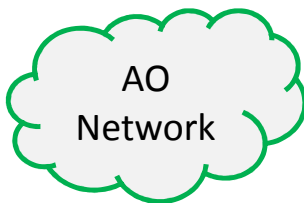
Digital TV

- (1) This symbol represents a Digital television set connected to a STB.



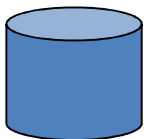
TLN IP Network

- (2) This symbol represents the TLN IP Network which is a converged backbone using the IP protocol to provide communication between devices.



AO Network

- (3) This symbol represents the AO network which is a backbone that can use any transport protocol including IP to provide communication to its own customers.



Database

- (4) This symbol represents a database which is an organized collection of data for one or more purposes, usually in digital form.



Cable Modem

- (5) This symbol represents a cable modem which is a device that provides bi-directional data communication between the customer home network (LAN side) and the Internet (WAN side) via radio frequency channels on a HFC infrastructure.

(6) This symbol represents a CMTS (cable modem termination system) which is a piece of equipment typically located in a cable company's head end or hub site, and used to provide high speed data services, such as cable Internet or voice over Internet Protocol, to cable subscribers.



CMTS

(7) This symbol represents a set-top box (STB) or set-top unit (STU) which is an information appliance device that generally contains a tuner and connects to a television set and an external source of signal, turning the signal into content which is then displayed on the television screen or other display device.



STB

(8) This symbol represents a router which is a device that forwards data packets between computer networks, creating an IP network.



Router

(9) This symbol represents a Wholesale Broadband Network Gateway (WS-BNG) which terminates AO customer traffic which is tunneled via BSoD through the TLN access network.



WS-BNG