

Marine Corps Transformational Communications Architecture (MCTCA) Glossary/Acronyms

<u>Abbreviation</u>	<u>Description</u>	<u>Sponsor Organization</u>
A		
AAL	ATM Adaptation Layer	ETSI & ECSCA
AAL0	ATM Adaptation Layer Type 0 refers to raw ATM cells.	ETSI & ECSCA
AAL1	ATM Adaptation Layer Type 1 supports constant bit rate, time-dependent traffic such as voice and video.	ETSI & ECSCA
AAL2	ATM Adaptation Layer Type 2 reserved for variable bit rate video transfer.	ETSI & ECSCA
AAL3/4	ATM Adaptation Layer Type 3/4 supports variable bit rate, delay-tolerant data traffic requiring some sequencing and/or error detection support.	ETSI & ECSCA
AAL5	ATM Adaptation Layer Type 5 supports variable bit rate, delay-tolerant connection-oriented data traffic requiring minimal sequencing or error detection support.	ETSI & ECSCA
ADSL	Asynchronous Digital Subscriber Line	ANSI
AH	Authentication Header	IETF
ARP	Address Resolution Protocol	IETF
ASN.1	Abstract Syntax Notation number 1 (specifically LDAP, SNMP, and ITU VoIP protocols)	ITU
ATM	Asynchronous Transfer Mode with fixed 53-byte cells to support voice, data, and video support a minimum rate of 1.544 Mbps (DS1)	ETSI & ECSCA
B		
BACP	Bandwidth Allocation Control Protocol (PPP suite)	IETF
BAP	Bandwidth Allocation Protocol (PPP suite)	IETF
BCP	Bridging Control Protocol (PPP suite)	IETF
BGP	Border Gateway Protocol (RFC 1773)	IETF
BGP Communities	BGP Communities	IETF
BGP Notifications	BGP Notifications	IETF
BGP-4	Border Gateway Protocol (TCP/IP)	IETF
B-ICI	BISDN Inter Carrier Interface (ATM PNNI Signaling)	ETSI & ECSCA

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Bluetooth	Specifications for wireless transmission between a wide variety of devices such as PCs, cordless phone, headsets and PDAs within 10 meter range in frequency range of 2.45GHz with data rate of 1 Mbps.	Bluetooth SIG
Bootstrap Protocol	Bootstrap Protocol (RFC 951)	IETF
BPDU	Bridge Protocol Data Unit	IETF
BRE	Bridge Relay Encapsulation, proprietary Ascom Timeplex protocol that extends bridging across WAN links by means of encapsulation (Frame Relay).	IETF

C

CCP	Compression Control Protocol (PPP suite)	IETF
CDMA	Code Division Multiple Access for cellular phone and wireless LAN	Qualcomm
CDMA2000	Division Multiple Access 2000 for 3G cellular phone and wireless LAN	Qualcomm
CDP	Cisco Discovery Protocol	Cisco
CHAP	Challenge Handshake Authentication Protocol (PPP suite)	IETF
CHAP	Challenge Handshake Authentication Protocol PPP Authentication (RFC 1994)	IETF
CIF	Cells in Frames (ATM over LAN)	ETSI & ECSA
CIFS	Common Internet File System	Microsoft
CLNP	Connectionless Network Protocol	ISO/OSI
COPS	Common Open Policy Service	IETF
COTS	Connection-mode Transport Service	ISO/OSI

D

DCAP	Data Link Switching Client Access Protocol	IETF
DCP	Data Compression Protocol over Frame Relay	IETF
DCPCP	DCP Control Protocol	IETF
DHCP	Dynamic Host Configuration Protocol (RFC 1531)	IETF
DISL	Dynamic Inter-Switch Link Protocol	Cisco
DLSw	Data Link Switching	IBM
DNS	Domain Name Service (RFC 830)	IETF

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DRARP	Dynamic Reverse Address Resolution Protocol (RFC 1931)	IETF
DRIP	Duplicate Ring Protocol	Cisco
DS0	Digital Signal for voice channel of 64 Kbps	Bell Labs
DS1/T1	Digital Signal for voice channel of 1.544 Mbps supports 24 DS0; A standard for North America	Bell Labs
DS3/T3	Digital Signal for voice channel of 44.736 Mbps supports 28 DS1/T1; a standard for North America	Bell Labs
DSMCC	Digital Storage Media Command and Control (Audio Visual over ATM)	
DVB	Digital Video Broadcasting	
DVMRP	Distance Vector Multicast Routing Protocol (RFC 1812)	IETF

E

E1	Digital Signal for voice channel of 2.048 Mbps supports 30 DS0; a standard for European and some other international countries	ITU-T
E3	Digital Signal for voice channel of 34.368 Mbps supports 16 E1; a standard for European and some other international countries	ITU-T
ECHO	Echo Protocol (RFC 862)	IETF
ECP	Encryption Control Protocol (PPP suite)	IETF
EGP	Exterior Gateway Protocol (RFC 827)	IETF
EIGRP	Enhanced Interior Gateway Routing Protocol	IETF
ES-IS	End system to Intermediate System protocol	ISO
ESP	Encapsulating Security payload	IETF
Ethernet	LAN protocol synonymous with IEEE 802.3 standard	IEEE

F

Fiber Channel	protocol to provide fast data transfer between computers with a rate up to 1 Gbps over coaxial cable or fiber	ANSI
FID	Format Identifier 1 and 2	IBM

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Frame Relay	A standard with variable size of packet length up to 4096 Bytes to support inter-network communications at layer 2	ITU-T
FTP	File Transfer Protocol (RFC 172)	IETF
FTP Cmd or Reply	FTP Cmd or Reply	IETF

G

G.711	Pulse code modulation (PCM) of voice frequencies	ITU
G.723	Extensions adaptive differential pulse code modulation	ITU
G.728	Coding of speech at 16 kbps using low-delay code excited linear prediction	ITU
G.729	Coding of speech at 8 kbps using conjugate-structure algebraic-code-excited linear-prediction	ITU
GMM	GPRS Mobility Management	ITU-T
GMRP	802.1 GARP Multicast Registration Protocol	IEEE
GSM	GPRS Session Management	ITU-T
GSMP	General Switch Management Protocol (IP Switching)	ITU-T
GTP	GPRS Tunneling Protocol	ITU-T
GVRP	GARP VLAN Registration protocol	IEEE

H

H.225	Call signaling and media stream packetization (RAS)	ITU
H.261	Video Codec	ITU
H.323	Packet-based multimedia communications (VoIP)	ITU
HDLC	High Level Data Link Control protocol developed by ISO, based on pioneering work by IBM on SDLC.	ISO
HPR-APPN	High Performance Routing Advanced Peer to Peer Network, IBM network architecture for dynamic routing across arbitrary network topologies.	IBM
HSRP	Hot Standby Router Protocol	Cisco
HTML	Hypertext Markup Language	IETF
HTTP	Hypertext Transfer Protocol (W3C/RFC 1945)	IETF

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HTTPS	Hypertext Transfer Protocol Secure (TCP/IP)	IETF
I		
ICMP	Internet Control Messages Protocol (RFC 792, RFC 1256)	IETF
ICMPv6	Revision of ICMP (TCP/IP)	IETF
IDP	Internet Datagram Protocol (XNS) IFMP Ipsilon Flow Management Protocol (IP Switching)	IETF
IGMP	Internet Group Management Protocol V2 (RFC 2236)	IETF
IGMPv2	Internet Group Management Protocol (RFC 2236)	IETF
IGMPv3	Internet Group Management Protocol, version 3	IETF
IGRP	Interior Gateway Routing Protocol	IETF
IISP	Interim Interswitch Signaling Protocol (ATM Signaling)	ETSI & ECSA
ILMI	Interim Local Management Interface, bi-direction exchange of management information between UMEs.	IETF
IMAP	Interactive Mail Access Protocol (RFC 1064)	IETF
IMT-2000	3G wireless communication protocol same as CDMA2000	ITU-T
IP	Internet Protocol for packet addressing and routing in network (LAN and WAN)	DARPA
IP NetBIOS Datagram Service	IP NetBIOS Datagram Service (RFC 1001)	IETF
IPC	InterProcess Communications protocol, datagram and reliable message delivery service for Banyan.	DARPA
IPCP	IP Control Protocol, responsible for configuring the IP parameters on both ends of the PPP link.	IETF
IPHC	IP Header Compression	IETF
IPSec	IP Security Protocol (specifically ESP and AH)	IETF
IPv4	Internet Protocol Datagram (RFC 760)	IETF
IPv6	Internet Protocol Datagram v6	IETF
IPv6CP	IPv6 PPP Control Protocol, responsible for configuring, enabling and disabling the IPv6 protocol modules on both ends of a PPP link.	IETF

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IPX	Internetwork Packet Exchange, Novell's implementation of the Xerox Internet Datagram Protocol (IDP).	Novell
ISAKMP	Internet Security Association and Key Management Protocol (RFC 2408)	IETF
iSCSI	Internet Small Computer Systems Interface for fast storage data transfer over IP	IETF
ISDN	Integrated Services Digital Network for a circuit switched network to support access of voice, data and video	ITU-T
IS-IS (ISO 10589)	IS-IS (ISO 10589) - Intermediate System to Intermediate System, exchange of configuration and routing information to facilitate the operation of the routing and relaying functions of the network layer.	ISO
ISL	Inter-Switch Link Protocol	Cisco
ISO protocols	International Standards Organization protocols defined by IEEE; complete seven-layer protocol conforming to the OSI networking model.	ISO
ISO-IP	ISO Internetworking Protocol includes built-in error signaling to aid in routing management.	ISO
ISO-SP	ISO Session Protocol specifies procedures for a single protocol for the transfer of data and control information from one session entity to a peer session entity.	ISO
ISO-TP (ISO 8073)	ISO Transport Protocol	ISO
ISUP	ISDN User Part of SS7, defines protocol and procedures used to setup, manage, and release trunk circuits that carry voice and data calls over the public switched telephone network.	Bell Labs

K

L

L2F	Layer 2 Forwarding protocol, permits the tunneling of the link layer of higher layer protocols (PPP suite).	Cisco
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L2TP	Layer 2 Tunneling Protocol, used for integrating multi-protocol dial-up services into existing ISP POP(RFC 2661).	IETF
LAPB	Link Access Protocol, Balanced, derived from HDLC and used to carry X.25 packets.	CCITT
LAPD	Link Access Protocol, Channel D, layer 2 protocol defined in CCITT.	CCITT
LAPF	Link Access Procedure F (Frame Relay), modified LAPD standard for Frame Relay.	CCITT
LCP	Link Control Protocol, establishes, configures and tests the data link connection (PPP suite).	IETF
LDAP	Lightweight Directory Access Protocol	IETF
LDP	Label Distribution Protocol	
LLC	Logical Link Control protocol (IEEE 802.2), provides a link mechanism for upper layer protocols.	IEEE
LQR	Link Quality Report, specifies the mechanism for link quality monitoring with PPP.	IEEE
 M		
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M2UA	Protocol for backhauling of SS7 MTP2-User signaling messages over IP using Stream Control Transmission Protocol (SCTP)	Bell Labs
M3UA	Protocol to support transport of SS7 MTP3-User signaling over IP using Stream Control Transmission Protocol (SCTP)	Bell Labs
MAPOS	Multiple Access Protocol over SONET / SDH	ETSI & ECSA
MARS	Multicast Address Resolution Server (TCP/IP)	IETF
MEGACO	Media Gateway Control as defined by H.248	IETF & ITU-T
MGCP	Media Gateway Control Protocol for VOIP	IETF
MLP	Multilink Procedure, added upper sub layer of the LAPB, operating between the packet layer and a multiplicity of single data link protocol functions (SLPs) in the data link layer (X.25).	IETF
MOUNT	Protocol used to initiate client access to a server supporting NFS.	IETF
MPEG	Motion Pictures Experts Group for data compression of motion video	ISO
MPLS	Multi-Protocol Label Switching to support IP services over ATM and Frame Relay networks through set of procedures for augmenting network layer packets with "label stacks", thereby turning them into labeled packets.(RFC 3031)	IETF

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MPOA	Multi Protocol Over ATM deals with efficient transfer of inner-subnet unicast data in a LAN emulation environment.	ETSI & ECSA
MPPC	Microsoft Point-to-Point Compression Protocol	Microsoft
MSRAP	Microsoft Remote Administration Protocol	Microsoft
MSRPC	Microsoft Remote Procedure Call	Microsoft
MTP-2	Message Transfer Part, Level 2, signaling link to provides reliable transfer of signaling messages between two directly connected signaling points (SS7).	Bell Labs
MTP-3	Message Transfer Part, Level 3, connects Q.SAAL to the users (SS7 suite).	Bell Labs

N

NBFCP	PPP NetBIOS Frames Control Protocol, network control protocol responsible for establishing and configuring the NBF protocol over PPP.	IETF
NBMA	Non-Broadcast, Multi-Access.	Novell
NBP	AppleTalk Name Binding Protocol, manages the use of names on AppleTalk networks.	Apple
NCP	Novell NetWare Core Protocol, manages access to the primary NetWare server resources.	Novell
NDS	NetWare Directory Services (Novell), globally distributed network database that replaces the bindery used in previous versions of NetWare.	Novell
NetBEUI	NetBIOS Extended User Interface	IBM
NetBIOS	Network Basic Input/Output System	IBM
NFS	Sun Network File System, file sharing application for the Sun protocol suite.	Sun
NNTP	Network News Transfer Protocol (RFC 977)	IETF
NTP	Network Time Protocol, time synchronization system for computer clocks through the Internet network (RFC 1305).	DARPA

O

OC1	SONET/SDH transmission with rate of 51.84 Mbps	ANSI/ITU-T
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OC12	SONET/SDH transmission with rate of 622.08 Mbps	ANSI/ITU-T
OC18	SONET/SDH transmission with rate of 933.12 Mbps	ANSI/ITU-T
OC192	SONET/SDH transmission with rate of 9.953 Gbps	ANSI/ITU-T
OC24	SONET/SDH transmission with rate of 1.244 Gbps	ANSI/ITU-T
OC3	SONET/SDH transmission with rate of 155.52 Mbps	ANSI/ITU-T
OC36	SONET/SDH transmission with rate of 1.866 Gbps	ANSI/ITU-T
OC48	SONET/SDH transmission with rate of 2.488 Gbps	ANSI/ITU-T
OC768	SONET/SDH transmission with rate of 39.812 Gbps	ANSI/ITU-T
OC9	SONET/SDH transmission with rate of 466.56 Mbps	ANSI/ITU-T
OC96	SONET/SDH transmission with rate of 4.976 Gbps	ANSI/ITU-T
OSI	Open Systems Interconnection	ISO/OSI
OSINLCP	OSI Network Layer Control Protocol, responsible for configuring, enabling and disabling the OSI protocol modules on both ends of the PPP link.	OSI
OSPF	Open Shortest Path First, link-state routing protocol used for routing IP (RFC 1131).	IETF
P		
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PAP	Password Authentication Protocol, provides a simple method for the peer to establish its identity using a 2-way handshake (RFC 1334).	IETF
PIM	Protocol Independent Multicast	IETF
PIM-SM	Protocol Independent Multicast-Sparse Mode (PIM-SM)	IETF
PMAP	Port Mapper protocol, manages the allocation of transport layer ports to network server applications (Sun).	Sun
PNNI	Private Network-to-Network Interface, hierarchical, dynamic link-state routing protocol (ATM).	ETSI & ECSCA
POP	Post Office Protocol (RFC 918)	IETF

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POP3	Post Office Protocol version 3, permits workstations to dynamically access a maildrop on a server host (TCP/IP).	IETF
PP	ISO Presentation Protocol, performs context negotiation and management between open systems.	ISO
PPP	Point-Point Protocol: a data link layer protocol for two peer devices to transport packets over the link (RFC 1661 LCP, RFC 1332 IPCP)	IETF
PPP Multilink	Multilink Point-to-Point Protocol, permits a system to indicate to its peer that it is capable of combining multiple physical links into a "bundle".	IETF
PPP-BPDU	PPP Bridge Protocol Data Unit, used to connect remote bridges.	IETF
PPPoE	PPP over Ethernet (RFC 2516)	IETF
PPTP	PPTP - Point-to-Point Tunneling Protocol, allows PPP to be channeled through an IP network (RFC 2637).	IETF

Q

Q.2931	Signaling standard for ATM to support Switched Virtual Connections. This is the signaling standard for ISDN.	ETSI & ECSA
Q.850	Usage of cause and location	ITU
Q.931	ISDN user-network interface layer 3 for Basic Call Control	ITU
Q.932	Digital subscriber signaling system No. 1	ITU
Q.952	Stage 3 description for call offering supplementary services using DSS 1 - Diversion supplementary services	ITU
Q.953	Call waiting/Call hold/Completion of Calls to Busy Subscribers (CCBS)/Terminal Portability (TP)/Call Completion on No Reply (CCNR)	ITU
Q.955	Closed user group/Multi-level precedence and preemption (MLPP)	ITU
Q.956	Advice of charge/Reverse charging	ITU
Q.957	User-to-User Signaling (UUS)	ITU
QLLC	Qualified Logical Link Control protocol transfers IBM SNA data over an X.25 network.	IBM

R

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RADIUS	Remote Authentication Dial-in User Service for user authentication and accounting (RFC 2058, RFC 2865, RFC 2866)	IETF
RANAP	Radio Access Network Application Part is the Radio Network Layer signaling protocol	
RARP	Reverse Address Resolution Protocol	IETF
RFC	Request for Comments, a series of notes about the Internet, started in 1969 (when the Internet was the ARPANET). The notes discuss many aspects of computing and computer communication focusing in networking protocols, procedures, programs, and concepts, but also including meeting notes, opinion, and sometimes humor. The specification documents of the Internet protocol suite, as defined by the Internet Engineering Task Force (IETF) and its steering group (the IESG), are published as RFCs. Many of the TCP/IP protocols and PPP protocols are defined by RFCs.	
RIP	Routing Information Protocol (RFC 1058)	IETF
RIP2	Routing Information Protocol, used by Berkeley 4BSD UNIX systems to exchange routing information. RIP2 derives from the Xerox protocol of the same name (TCP/IP).	Berkeley
RLOGIN	Remote Login, allows UNIX users of one machine to connect to other UNIX systems across the Internet and interact as if their terminals are directly connected to the machines (TCP/IP).	IETF
RLP	Radio Link Protocol	IEEE
RM Cells	Rate Management cells (ATM cells).	ETSI & ECSA
RMON	Remote Monitoring MIBS - belong to the SNMP protocol family	IETF
RPC	Remote Procedure Call protocol, activates a function on a remote station and retrieves the result	Sun
RPC Mount Procedures	RPC Mount Procedures	Sun
RPC NFS Procedures	RPC NFS Procedures	Sun
RPC-PMP	RPC Port Mapper Procedures	Sun
RSH/RCMD	Remote Shell/Remote Command	IETF
RSVP	Resource ReSerVation setup Protocol, designed for an integrated services Internet (RFC 2208).	IETF
RTCP	Real-time Transport Control Protocol	IETF
RTP	Real-time Transport Protocol (RFC 1889)	IETF

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RTSP	Real Time Streaming Protocol (RFC 2326)	IETF
RUDP	Reliable UDP	IETF
S		
SCCP	Signaling Connection Control Part, offers enhancements to MTP level 3 to provide connectionless and connection-oriented network services, as well as to address translation capabilities (SS7).	Bell Labs
SCSI	Small Computer Systems Interface for fast data transfer in Storage Area Network	ANSI
SCSP	Routine protocol in the TCP/IP family.	IETF
SCTP	Stream Control Transmission Protocol	IETF
SDCP	PPP Serial Data Control Protocol, responsible for configuring, enabling and disabling the SDTP modules on both ends of the point-to-point link.	IETF
SDH	Synchronous Data Link Hierarchy, a European standard for data transmission over fiber equivalent to SONET	ITU-T
SDLC	Synchronous Data Link Control protocol, developed by IBM to be used as the layer 2 of the SNA hierarchical network.	IBM
SDP	Session Description Protocol	
SGCP	Simple Gateway Control Protocol for VOIP+B147	Cisco & Telcordia
SIP	SMDS Interface Protocol, three-level protocol that controls access to the network.	Bell Labs
SIP (VOIP)	Session Initiation Protocol (RFC 2543)	IETF
SLP	Service Location Protocol (RFC 2608)	IETF
SMB	Server Message Block, Microsoft presentation layer protocol providing file and print sharing functions for LAN Manager, Banyan VINES and other networking operating systems.	Microsoft
SMDS	Switched Multi-Megabit Data Service for public network service for LAN-to-LAN interconnection with a bandwidth up to 45 Mbps (T3)	IEEE
SMPP	Short Message Peer to Peer	
SMS	Short Message Service (UMTS)	
SMTP	Simple Mail Transfer Protocol, mail service modeled on the FTP file transfer service (RFC 788).	IETF

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SNA	Systems Network Architecture, introduced by IBM to provide a framework for joining together many mutually incompatible IBM products for distributed processing.	IBM
SNACP	SNA PPP Control Protocol, responsible for configuring, enabling and disabling SNA on both ends of the point-point link (PPP).	IBM
SNAP	Sub-network Access Protocol for LAN logical link control frame	IEEE
SNI	Subscriber Network Interface such as DS0, DS1/T1, DS3/T3, E1, E3 to access to the SMDS network	Bell Labs
SNMP	Simple Network Management Protocol, developed by the Internet community to allow diverse network objects to participate in a global network management architecture.	IETF
SNMP MIB	SNMP Management Information Base (RFC 1907)	IETF
SNMP MIB2	SNMP Management Information Base version 2 (RFC 1213)	IETF
SNMP OID	SNMP Object Identifiers	IETF
SNMP RMON	SNMP Remote Network Monitoring	IETF
SNMP RMON2	SNMP Remote Network Monitoring version 2 (RFC 2021)	IETF
SNMP SMI	SNMP Structure of Management Information (RFC 1155)	IETF
SNMP - SNMPv1, SNMPv2, SNMPv3	Simple Network Management Protocol – versions 1, 2, and 3 (RMON, RMON 2, MIB, MIB2, SMI, OIDs, Enterprise OIDs)	IETF
SNTP	Simple Network Time Protocol (RFC 1769)	IETF
SOCKS	A circuit level security technology supports multiple means of authentication, negotiation between client and server over a virtual circuit	IETF
SONET	Synchronous Optical Network, a North America standard for data transmission over fiber from 51.84 Mbps to 39.812 Gbps	ANSI
SPANS	Simple Protocol for ATM Network Signaling, developed by FORE Systems for use in ATM networks.	FORE
SS7	Signaling System 7, a common channel signaling system.	Bell Labs

T

TALI	Transport Adapter Layer Interface
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TARP	TID Address Resolution Protocol	ISO/OSI
TCAP	Transaction Capabilities Application Part, enables the deployment of advanced intelligent network services by supporting non-circuit related information exchange between signaling points using the SCCP connectionless service (SS7).	Bell Labs
TCP	Transmission Control Protocol for reliable, sequenced, and unduplicated delivery of bytes to end user, as part of the IP suite at layer 4 (RFC 761)	IETF
TDP	Tag Distribution Protocol, a two party protocol that runs over a connection oriented transport layer with guaranteed sequential delivery.	IETF
TELNET	Network Virtual Terminal protocol for terminal emulation (RFC 318)	IETF
TFTP	Trivial File Transfer Protocol, supports file writing and reading (RFC 783).	IETF
THDR	Transport Layer Header, used by RTP endpoints to provide correct processing of the packet (SNA).	IBM
Timeplex (BRE2)	Bridge Relay Encapsulation, proprietary Ascom Timeplex protocol that extends bridging across WAN links by means of encapsulation (Frame Relay).	IETF
 U		
UDP	User Datagram Protocol to provide layer 4 connectionless without acknowledgement delivery of packets to end users, as part of the IP suite (RFC 768)	IETF
UMTS	Universal Mobile Telecommunication System for next generation of GSM	ETSI
UNI	User Network Interface, an interface point between ATM end users and a private ATM switch, or between a private ATM switch and the public carrier ATM network.	Bell Labs
 V		
VCI	Virtual Channel Identifier.	IETF
VIP	VLAN Trunk Protocol	Cisco
VLAN	Virtual LAN supported by IEEE 802.1D, 802.1G, 802.1Q and other protocols	

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Numbers

1000Base-CX	Gigabit over 150 ohm coaxial cable up to 200 meter for Ethernet	IEEE
1000Base-LX	Gigabit over fiber with long wave laser up to 3 kilometers for Ethernet	IEEE
1000Base-SX	Gigabit over fiber with short wave laser up to 550 meters for Ethernet	IEEE
1000BaseT	Gigabit over twisted pair for Ethernet	IEEE
1000BaseX	Gigabit over multiple media for Ethernet	IEEE
100BaseT	100 Mbps over twisted pair for Ethernet	IEEE
100BaseX	100 Mbps for Ethernet for multiple media: FX: Fiber	IEEE
10Base2	10 Mbps over thin coaxial cable	IEEE
10Base5 Thick	10 Mbps over 50 ohm thick coaxial cable for Ethernet	IEEE
10BaseF	10 Mbps over Fiber for Ethernet	IEEE
10BaseT	10 Mbps over twisted pair for Ethernet	IEEE
10Broad36	10 Mbps over coaxial cable up to 3600 meters with Frequency Division Multiplexing	IEEE
1Base5	1 Mbps over unshielded twisted pair for Ethernet	IEEE
802.1	Spanning Tree	IEEE
802.12	100 VG-AnyLAN standard	IEEE
802.2	Logical Link Control protocol for Ethernet	IEEE
802.3	Data Link Layer (CSMA/CD)	IEEE
802.5	Token-passing access on ring topology using unshielded twisted pair	IEEE
802.6	Metropolitan Area Network (MAN) layer 2 standard	IEEE
802.11a	Wireless LAN standard with speed up to 54 Mbps	IEEE
802.11b	Wireless LAN standard with speed up to 11 Mbps	IEEE
802.11g	Wireless LAN standard with speed up to 54 Mbps	IEEE
802.1Q	Virtual LAN (VLAN) Switching protocol	IEEE
802.1q	Virtual Bridged LAN	IEEE
802.3 CSMA/CD	Carrier Sense Multi-Access with Collision Control; Media Access Control	IEEE

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802.3ae	10 Gigabit Ethernet standard	IEEE
802.3z	Gigabit Ethernet over fiber standard	IEEE
802.12	Demand Priority Access Method, Physical Layer and Repeater Specification	IEEE
802.16	Standard Air Interface for Fixed Broadband wireless Access Systems	IEEE