Acronyms and Abbreviations

A

The acronyms and abbreviations are sorted based on themselves, and not their expansions. In the event that the acronym describes a particular company's product, or is only meaningful in the context of another entity, we cite that company or entity in parentheses.

AAA	Authentication, Authorization and Accounting
AC	Access Controller
ACL	Access Control List
ACS	Auto-Configuration Server
AP	(Wireless) Access Point
API	Application Programming Interface
APIC	Application Policy Infrastructure Controller
APIC-DC	Application Policy Infrastructure Controller—Data Center
APIC-EM	Application Policy Infrastructure Controller—Enterprise Module
AR	Access Router
ARP	Address Resolution Protocol
ARPANET	Advanced Research Projects Agency Network
AS	Autonomous System
ASF	Apache Software Foundation
ASIC	Application-Specific Integrated Circuit
AWS	Amazon Web Services
BGP	Border Gateway Protocol
BGP-LS	Border Gateway Protocol Link State
BMP	BGP Monitoring Protocol
BOM	Bill of Materials
BSD	Berkeley Software Distribution
B-VID	Backbone VLAN ID
BYOD	Bring Your Own Device
CAM	Content-Addressable Memory
CAPEX	Capital Expense
CE	Control Element
CE	Customer Edge
CLA	Contributor License Agreement
CLI	Command Line Interface
COPS	Common Open Policy Service
CoS	Class of Service

COSC	Cisco Open SDN Controller
COTS	Common Off-the-Shelf
CPE	Customer Premises Equipment
CPU	Central Processing Unit
CSMA/CD	Carrier-Sense Multiple-Access/Collision Detect
CSPF	Constrained Shortest Path First
C-VID	Customer VLAN ID
C-VLAN	Customer VLAN ID
DCAN	Devolved Control of ATM Networks
DCO	Developer Certificate of Origin
DDoS	Distributed Denial of Service
DHCP	Dynamic Host Configuration Protocol
DMVPN	Dynamic Multipoint Virtual Private Networks
DNS	Domain Name System
DoS	Denial of Service
DOVE	Distributed Overlay Virtual Ethernet (IBM)
DPDK	Data Plane Development Kit (Intel)
DPI	Deep Packet Inspection
DSCP	Differentiated Services Code Point
DSL	Digital Subscriber Loop (aka Digital Subscriber Line)
DVR	Digital Video Recorder
DWDM	Dense Wavelength Division Multiplexing
EBGP	External Border Gateway Protocol
ECMP	Equal-Cost Multi-Path
EID	Endpoint Identifiers
EIGRP	Enhanced Interior Gateway Routing Protocol
EMS	Element Management System
EPC	Evolved Packet Core
EPL	Eclipse Public License
ETSI	European Telecommunications Standards Institute
EVB	Edge Virtual Bridging
FCoE	Fiber Channel over Ethernet
FDDI	Fiber Distributed Data Interface
FE	Forwarding Element
FHRP	First Hop Redundancy Protocol
ForCES	Forwarding and Control Element Separation
FOSS	Free and Open Source Software
FSF	Free Software Foundation
Gbps	Gigabits per second
GPL	General Public License
GSMP	General Switch Management Protocol
HA	High Availability
HSRP	Hot Standby Router Protocol
HSS	Home Subscriber Server

HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
I2RS	Interface to the Routing System
IaaS	Infrastructure as a Service
IDS	Intrusion Detection System
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IGP	Interior Gateway Protocol
IMS	IP Multimedia Subsystem
InCNTRE	Indiana Center for Network Translational Research and Education
IP	Internet Protocol
IPS	Intrusion Prevention System
IPv4	Internet Protocol Version 4
IPv6	Internet Protocol Version 6
IoT	Internet of Things
ISG	Industry Specification Group (ETSI)
I-SID	Service Instance VLAN ID
IS-IS	Intermediate System to Intermediate System
ISP	Internet Service Provider
IT	Information Technology
ITU	International Telecommunications Union
JSON	JavaScript Object Notation
KVM	Kernel-based Virtual Machine
LAG	Link Aggregation
LAN	Local Area Network
LIFO	Last-In-First-Out
LISP	Locator/ID Separation Protocol
LSP	Label Switched Path
MAC	Media Access Control
Mbps	Megabits per second
MD-SAL	Model-Driven Service Abstraction Layer
mGRE	Multipoint GRE
MIB	Management Information Base
MPLS	Multiprotocol Label Switching
MPLS-TE	MPLS Traffic Engineering
MSDC	Massively Scaled Data Center
MSTP	Multiple Spanning Tree Protocol
MTU	Maximum Transmission Unit
NAC	Network Access Control
NAT	Network Access Translation
NBI	Northbound interface
NE	Network Element
NEM	Network Equipment Manufacturer
NETCONF	Network Configuration Protocol

NFV	Network Functions Virtualization
NFVI	NFV Infrastructure
NFVO	NFV Orchestrator
NHRP	Next-Hop Resolution Protocol
NIC	Network Interface Card
NMS	Network Management System
NOS	Network Operating System
NS	Network Service
NTT	Nippon Telegraph and Telephone
NV	Network Virtualization
NVGRE	Network Virtualization using Generic Routing Encapsulation
nvo3	Network Virtualization Overlays
NVP	Network Virtualization Platform (Nicira)
OCh	Optical Channel
ODM	Original Device Manufacturer
ODU	Optical Data Unit
ODUCLT	Optical Data Unit Client
OEM	Original Equipment Manufacturer
OF-Config	OpenFlow Configuration and Management Protocol
OFLS	OpenFlow Logical Switch
ONE	Open Networking Environment
ONIE	Open Network Install Environment
onePK	Open Networking Environment Platform Kit
ONF	Open Networking Foundation
ONOS	Open Network Operating System
ONRC	Open Networking Research Center
ONUG	Open Networking User Group
OOOD	Out-of-Order Delivery
OPEX	Operational Expense
OSGi	Open Services Gateway initiative
OSI	Open Systems Interconnection
OSS	Operational Support System
OTN	Optical Transport Network
OTWG	Optical Transport Working Group
OVS	Open vSwitch
OVSDB	Open vSwitch Database Management Protocol
PaaS	Platform as a Service
PAN	Personal Area Network
PBR	Policy-Based Routing
PCC	Path Computation Client
PCE	Path Computation Element
PCE-P	Path Computation Element Protocol
PCRF	Policy and Charging Rules Function
P-CSCF	Proxy Call Session Control Function

PE	Provider Edge
PE-VLAN	Provider Edge VLAN
PGW	Packet Data Network Gateway
PHY	Physical Layer and Physical Layer Technology
PKI	Public Key Infrastructure
PNF	Physical Network Function
PoA	Point of Access
PoC	Proof of Concept
POJO	Plain Old Java Object
PoS	Point of Service
QoS	Quality of Service
RADIUS	Remote Authentication Dial in User Service
RAN	Radio Access Network
REST	Representational State Transfer
RESTCONF	REST-based NETCONF
RFC	Request for Comments
RISC	Reduced Instruction Set Computing
RLOC	Routing Locators
ROI	Return on Investment
RPC	Remote Procedure Call
RSTP	Rapid Spanning Tree Protocol
RSVP	Resource Reservation Protocol
SaaS	Software as a Service
SAL	Service Abstraction Layer
S-CSCF	Serving Call Session Control Function
SDH	Synchronous Digital Hierarchy
SDM	Software Defined Mobility
SDN	Software Defined Networking
SDN VE	Software Defined Network for Virtual Environments
S-GW	Serving Gateway
SIP	Session Initiation Protocol
SLA	Service Level Agreement
SMI	Structure of Management Information
SNMP	Simple Network Management Protocol
SONET	Synchronous Optical Networking
SP	Service Provider
SPAN	Switch Port ANalyzer
SPB	Shortest Path Bridging
STP	Spanning Tree Protocol
STT	Stateless Transport Tunneling
S-VID	Service Provider VLAN ID
S-VLAN	Service Provider VLAN ID
TAM	Total Available Market
TCAM	Ternary Content-Addressable Memory

TE	Traffic Engineering
TLV	Type-Length-Value
TL1	Transaction Language 1
ToR	Top-of-Rack
ToS	Type of Service
TRILL	Transparent Interconnection of Lots of Links
TSO	TCP Segmentation Offload
TTI	Trail Trace Identifier
TTL	Time-To-Live
TTP	Table Type Pattern
VAR	Value-Added Reseller
VEPA	Virtual Edge Port Aggregator
VIM	Virtual Infrastructure Manager
VLAN	Virtual Local Area Network
VNF	Virtual Network Function
VNF-FG	VNF Forwarding Graph
VoIP	Voice over IP
VTEP	Virtual Tunnel Endpoint or VXLAN Tunnel Endpoint
VXLAN	Virtual eXtensible Local Area Network
WaaS	WiFi-as-a-Service
WAE	WAN Automation Engine
WAN	Wide Area Network
Wintel	Refers to the collaboration of Microsoft (through their Windows OS) with Intel (through their processors) in creating a de facto standard for a personal computer platform.
WLAN	Wireless Local Area Network
XaaS	Everything as a Service
XML	Extensible Markup Language
XMPP	Extensible Messaging and Presence Protocol
XNC	Extensible Network Controller
YANG	Yet Another Next Generation data modeling language