



# Acronym List

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**This is a working document and will be updated periodically.**

2FA	Two-factor authentication
AAA	Authentication, Authorization, and Accounting
AAP	Adaptive Access Point
aaS	as a Service
ABR	Area Border Router
AC	Access Control/Controller
ACE	Access Control Engine
ACI	Adjacent Channel Interference
ACK	Acknowledgement
ACL	Access Control List
ACSP	Automatic (successor Aerohive) Channel Selection Protocol
AD	Active Directory
ADSP	Air Defense Services Platform
AF	Assured Forwarding
AFC	Automated Frequency Coordination (WiFi6E)
AG	Application Group
AI	Application Intelligence
AI	Artificial Intelligence
AIOps	Artificial Intelligence Operations
ALG	Application Layer Gateway – links ports to QoS
AMRP	Automatic (successor Aerohive) Mobility Routing Protocol
ANXP	Automatic (successor Aerohive) Network Extension Protocol
AP	Access Point
API	Application Programming Interface
APS	Automatic Protection Switching
AQS	Application Quality Score
ARP	Address Resolution Protocol
AS	Autonomous System
AS	Autonomous System
ASBR	Autonomous System Boundary Router

ASR	Asymmetric Routing
ATM	Asynchronous Transfer Mode
ATP	Authorized Training Partner
AVB	Audio Video Bridging
AVP	Attribute Value Pairs
AWS	Amazon Web Services
AXIS	Apache Extensible Interaction System
BCB	Backbone Core Bridge
BDA	Backbone Destination Address
BDP	Bandwidth Delay Product
BDR	Backup Designated Router
BE	Best Effort
BEB	Backbone Edge Bridge
BFD	Bidirectional Forwarding Detection
BGP	Border Gateway Protocol
BLE	Bluetooth Low Energy
BO	Branch Office
BOM	Bill of Materials
BootP	Bootstrap Protocol
BPDU	Bridge Protocol Data Units
BPE	Bridge Port Extenders
bps	bits per second
BPSK	Binary Phase Shift Keying
BSA	Backbone Source Address
BSR	Bootstrap Router
BSS	Basic Service Set
BSSID	Basic Service Set Identifier
BUM	Broadcast, Unicast, Multicast
B-VID	Backbone VLAN Identifier
BW	abbreviation for Bandwidth

BYOD	Bring Your Own Device
C&C	Command-and-Control
CA	Certificate Authority
CAC	Call Admission Control
CAPWAP	Control and Provisioning of Wireless Access Points
CASB	Cloud Access Security Broker
CB	Controlling Bridge
CBQ	Class Based Queuing
CBSR	Candidate Bootstrap Router
CCG	Cloud Config Group
CCI	Co-Channel Interference
CCTV	Closed Circuit Television
CD	Continuous Deployment
CDN	Content Delivery Network
CDP	Cabletron Discovery Protocol
CFM	Connectivity Fault Management
CH	Channel (Wi-Fi Frequency)
CHAP	Challenge Handshake Authentication Protocol
CI	Continuous Integration
CIDR	Classless Interdomain Routing
CiscoDP	Cisco Discovery Protocol
CIST	Common and Internal Spanning Tree
CLI	Command Line Interface
CMS	Central Management Software
CN	Common Name
COA	Certificate of Authority
CoA	Change of Authorization
CoS	Class of Service
COTS	Commercial Off-The-Shelf
CPE	Customer's Premises Equipment

CPU	Central Processing Unit
CQD	Call Quality Dashboard
CRC	Cyclic Redundancy Check
CRP	Candidate Rendezvous Point
CRUD	Create, Read, Update, Delete
CSA	Cloud Security Alliance
CSMA/CA	Collision Sense Multiple Access/Collision Avoidance
CSMA/CD	Collision Sense Multiple Access/Collision Detection
CSR	Certificate Signing Request
CTS	Clear-To-Send
cURL	Client URL
C-VID	Customer VLAN Identifier
CWNA	Certified Wireless Network Administrator
D/J/L	Delay/Jitter/Loss
D5G	Dual 5 Gig Radio
DAC	Direct Attach Cable/Copper
dACL	Downloadable Access Control Lists
DAD	Duplicate Address Detection
DC	Data Center
DCI	Data Center Interconnect
DDMI	Digital Diagnostic Monitoring Interface
DDoS	Distributed Denial of Service
DFS	Dynamic Frequency Selection
DHCP	Dynamic Host Configuration Protocol
DIP	Destination IP
DIPS	Distributed Intrusion Prevention Service
DLP	Data Loss Prevention
DMAC	Destination MAC
DMC	Destination MAC
DMZ	Demilitarized Zone

DN	Domain Name
DNS	Domain Name System/Service
DNXP	Dynamic Network Extension Protocol
DoH	Domain Name System over HTTPS
DoS	Denial of Service
DPI	Deep Packet Inspection
DR	Designated Router
DS	Differentiated Services
DSCP	Differentiated Services (DiffServ) Code Point
DSL	Digital Subscriber Line
DSS	Data Security Standard
DTI	Direct-to-Internet
DVMRP	Distance Vector Multicast Routing Protocol
DVR	Distributed Virtual Routing
DWS	Dynamic WAN Selection
E2E	End-to-End
EAC	Extreme Access Control
EAN	Extreme Analytics
EAP	Extensible Authentication Protocol
EAPoL	Extensible Authentication Protocol over LAN
EAPS	Extreme Automatic Protection Switching
eBGP	Exterior BGP
ECA	Extreme Cloud Appliance
ECMP	Equal-Cost Multi-Path
ECP	Extreme Captive Portal
ECP	Extreme Certified Professional
ECS	Extreme Certified Specialist
EDP	Extreme Discovery Protocol
EEP	Extreme Encapsulation Protocol
EF	Expedited Forwarding



EFA	Extreme Fabric Automation
EGP	Exterior Gateway Protocol
ELRP	Extreme Loop Recovery Protocol
EMISTP	Extreme Multiple Instance Spanning Tree
EQS	Experience Quality Score
ERP	Enterprise Resource Planning
ERPS	Ethernet Ring Protection Switching
ESRP	Extreme Standby Router Protocol
EU	European Union
EVPN	Ethernet VPN
EWX	Extreme Wireless Controller
EXOS	Extreme Operating System
FA	Fabric Attach
FCS	Frame Check Sequence
FDB	Forwarding Database
FDX	Full Duplex
FEC	Forward Error Correction
FIPS	Federal Information Processing Standards
FQDN	Fully Qualified Domain Name
FTP	File Transfer Protocol
FW	Firewall
FWaaS	Firewall as a Service
GARP	Generic Attribute Registration Protocol
GCP	Google Cloud Platform
GDC	Global Data Center
GDPR	General Data Protection Regulation
GLASS	Global Autonomic Support System
GMRP	GARP Multicast Registration Protocol
GMT	Greenwich Mean Time
GPS	Global Positioning System

GRE	Generic Routing Encapsulation
GRT	Global Routing Table
GTAC	Global Technical Assistance Center
GUI	Graphical User Interface
GVRP	GARP VLAN Registration Protocol
HA	High Availability
HCI	Hyperconverged Infrastructure
HD	High Density
HDE	High Density Environment
HDX	Half Duplex
HIPAA	Health Insurance Portability and Accountability Act
HM	Hive Manager
HNV	Hybrid Network View
HSRP	Hot Standby Routing Protocol
HTB	Hierarchical Token Bucket
HTML	Hypertext Markup Language
HTTP	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure
HW	Hardware
Hz	Hertz
IaaS	Infrastructure as a Service
IAM	Identity and Access Management/Manager
IANA	Internet Assigned Numbers Authority
IANA	Internet Assigned Numbers Authority
iBGP	Interior BGP
ICI	Intercarrier Interference
ICMP	Internet Control Message Protocol
iCoS	Ipanema Class of Service
IDM	Identity Management
IEC	International Electrotechnical Commission

IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IGMP	Internet Group Management Protocol
IGP	Interior Gateway Protocol
IHAP	Ipanema High Availability Protocol
IKE	Internet Key Exchange
intf	abbreviation for interface
INXP	Identity-based Network Extension Protocol
IoT	Internet of Things
IP	Internet Protocol
IP	Internet Protocol
IPDR	IP Data Records
IPFIX	IP Flow Information Export
IPS	Intrusion Prevention System
IPS	Intrusion Protection System
IPsec	IP Security
IPTV	Internet Protocol Television
IPX	Internet Protocol Exchange
IQE	IQ Engine Operating System (AP)
IQVA	ExtremeCloud IQ Virtual Appliance
IRB	Integrated Routing and Bridging
IRL	Inbound Rate Limiting
ISC	Interswitch Connection
iSCSI	Internet Small Computer Systems Interface
I-SID	Instance Service Identifier
IS-IS	Intermediate System to Intermediate System
ISMS	Information Security Management System
ISO	International Organization for Standardization
ISP	Internet Service Provider
ISR G2	Integrated Service Router Generation 2

ITP	Ipanema Time Protocol
ITU	International Telecommunication Union
ITU-T	ITU Telecommunication Standardization Sector
JITC	Joint Interoperability Test Command
JSON	JavaScript Object Notation
KDDR	Kernel Diagnostic Data Recorder
L2	Layer 2
L3	Layer 3
LACP	Link Aggregation Control Protocol
LAG	Link Aggregation Group
LAN	Local Area Network
LDAP	Lightweight Directory Access Protocol
LLDP	Link Layer Discovery Protocol
LLMNR	Local Link Multicast Name Resolution
LLW	Limited Lifetime Warranty
LSA	Link State Advertisement
LSDB	Link State Database
LSP	Link State Packets
LSVR	Link State Vector Routing
LTL	Local Traffic Limiting
LVSN	Layer 2 VSN
LVTEP	Logical VXLAN Tunnel End Point
MA	Maintenance Association
MAC	Medium/Media Access Control
MACsec	MAC Security
MAN	Metropolitan Area Network
MBGP	Multiprotocol Border Gateway Protocol
MCS	Modulation and Coding Scheme
MD	Maintenance Domain
MD	Message Direct

MDM	Mobile Device Manager/Management
mDNS-SD	Multicast Domain Name Service-Service Discovery
MED	Media Endpoint Discovery
MEP	Maintenance association End Point
MFA	Multi-Factor Authentication
MIB	Management Information Base
MIMO	Multiple-Input Multiple-Output
MIP	Maintenance domain Intermediate Point
ML	Machine Learning
MLAG	Multi-Switch Link Aggregation
MLT	Multi-link Trunking
MOS	Mean Opinion Score
MPLS	Multi-Protocol Label Switching
MRP	Multiple Registration Protocol
MsCHAP	Microsoft Challenge Handshake Authentication Protocol
MSDP	Multicast Source Discovery Protocol
MSFT	Microsoft
MSFT	Microsoft Teams
MSP	Managed Service Provider
MSS	Maximum Segment Size
MSTI	Multiple Spanning Tree Instance
MSTP	Multiple Spanning Tree Protocol
MTBF	Mean Time Between Failures (or Mean Time Before Failure)
MTTR	Mean Time to Repair/ to Resolve / to Recovery
MTU	Maximum Transmission Unit
MU	Multi-User
MUA	Multi-User Authentication/Authorization/Access
MU-MIMO	Multi-User - Multiple-Input Multiple-Output
MVRP	Multiple VLAN Registration Protocol
NAC	Network Access Control

NAP	Network Access Point
NAT	Network Address Translation
NBI	Northbound Interface
NBMA	Non-Broadcast Multiple Access
NDP	Neighbor Discovery Protocol
NDP	Nortel Discovery Protocol
NFS	Network File System
NFV	Network Functions Virtualization
NGFW	Next Generation Firewall
NIC	Network Interface Card
NIS	Network Information Server/Service
NIST	National Institute of Standards and Technology
NMS	Network Management Solution/System/Service
NNI	Network-to-Network Interface
NOC	Network Operations Center
NOS	Network Operating System
NP	Network Policy (ExtremeCloud IQ)
NSSA	Not So Stubby Area
NTLM	New Technology LAN Manager
NTP	Network Time Protocol
NVO	Network Virtualization Overlay
OBR	Objectives-Based Routing
OCS	Off Channel Scanning
OCSP	Online Certificate Status Protocol
OFDM	Orthogonal Frequency Division Multiplex
OFDMA	Orthogonal Frequency Division Multiple Access
OID	Object Identifier
OKC	Opportunistic Key Caching
OOD	Out of Domain
ORL	Outbound Rate Limiting

OS	Operating System
OSI	Open Systems Interconnection
OSI	Open Systems Interconnection
OSPF	Open Shortest Path First
OUI	Open Usability Interface
OUI	Operator User Interface
OUI	Oracle Universal Installer
OUI	Organizational Unique Identifier
OWD	One Way Delay
PaaS	Platform as a Service
PAN	Personal Area Network
PAP	Password Authentication Protocol
PAT	Port Address Translation
PBB	Provider Backbone Bridges
PBR	Policy Based Routing/Redirect
PC	Permanent Correction
PC	Personal Computer
PCAP	Packet Capture
PCI	Payment Card Industry
PDU	Protocol Data Unit
PE	Premises Equipment
PEP	Policy Enforcement Point
PEP	Policy Enforcement Point
PHB	Per Hop Behavior
PIM	Protocol Independent Multicast
PIM-DM	Protocol Independent Multicast-Dense Mode
PIMS	Privacy Information Management System
PIM-SM	Protocol Independent Multicast-Sparse Mode
PIM-SSM	Protocol Independent Multicast-Source Specific Multicast
PING	Packet Internet/Inter-Network Groper

PKI	Public Key Infrastructure
PLM	Product Lifecycle Management
PoE	Power over Ethernet
PoP	Point of Presence
PPP	Point-to-Point Protocol
PPPoE	PPP over Ethernet
PPSK	Private Pre-Shared Key
PSAE	Private Simultaneous Authentication of Equals
PSC	Primary Scanning Channel (6 GHz)
PSK	Phase Shift Keying
PSK	Pre-Shared Key
PVID	Port VLAN Identifier
PVLAN	Private VLAN
PVST	Per VLAN Spanning Tree
QA	Quality Assurance
QAM	Quadrature Amplitude Modulation
QinQ	802.1Q-in-802.1Q
QoE	Quality of Experience
QoS	Quality of Service
QPSK	Quadrature Phase Shift Keying
RADIUS	Remote Authentication Dial-In User Service
RADSEC	RADIUS over TLS
R-APS	Ring Automatic Protection Switching
RBAC	Role Based Access Control
RCA	Root Cause Analysis
RDC	Regional Data Centre
RED	Random Early Detection
REST	Representational State Transfer
RF	Radio Frequency
RFC	Request for Comments/Change



RID	Router ID
RIP	Routing Information Protocol
RMA	Return Merchandise Authorization
RP	Rendezvous Point
RPF	Reverse Path Forwarding
RPL	Ring Protection Link
RSTP	Rapid Spanning Tree Protocol
RSVP	Resource Reservation Protocol
RTCP	Real Time Control Protocol
RTD	Round Trip Delay
RTP	Real Time Protocol
RTT	Round Trip Time
SA	Solutions Architect
SA	Spectrum Analysis
SaaS	Software as a Service
SAML	Security Assertion Markup Language
SAP	Session Announcement Protocol
SAS	Serial Attached Small Computer System Interface
SASE	Secure Access Service Edge
SAT	Source Address Table
SBI	Southbound Interface
SCP	Secure Copy
SCSI	Small Computer System Interface
SDA	Software Defined Architecture
SDI	Software Defined Infrastructure/Interconnect
SDN	Software Defined Networking
SDP	Session Description Protocol
SDP	Software Defined Perimeter
SDR	Software Defined Radio
SDS	Software Defined Storage

SD-WAN	Software Defined-Wide Area Network
SD-WAN	Software-Defined WAN
SE	System Engineer
sFlow	Sampled Flow
sFlow+	Sampled Flow Plus (internal name for Application Telemetry based on ACL mirror and sFlow)
SFP	Small Form-factor Pluggable
SFQ	Stochastic Fair Queuing
SIP	Source IP
SISO	Single-Input Single-Output
SKU	Stock Keeping Unit
SLA	Service Level Agreement
SLAAC	Stateless Address Auto-Configuration
SLPP	Simple Loop Prevention Protocol
SMAC	Social, Mobile, Analytics and Cloud
SMAC	Source MAC
SMLT	Split Multi-link Trunking
SNI	Server Name Indication
SNMP	Simple Network Management Protocol
SNR	Signal-to-Noise Ratio
SOAP	Simple Object Access Protocol
SoftWOC	Software WAN Optimization Controller
SOHO	Small Office/Home Office
SONET	Synchronous optical Networking
SONMP	SynOptics Network Management Protocol
SP	Service Provider
SPB	Shortest Path Bridging
SPF	Shortest Path First
SPF	Smart Packet Forwarding
SPI	Stateful Packet Inspection

SPOF	Single Point of Failure
SPT	Shortest Path Tree
SQL	Structured Query Language
SRE	Services-Ready Engine
SRE	Standard Redundancy Elimination
SRT	Server Response Time
SSH	Secure Shell
SSID	Service Set Identifier/Identification
SSL	Secure Socket Layer
SSO	Single Sign-On
SSR	Software Selectable Radio
STAR	Security Trust Assurance and Risk
STP	Spanning Tree Protocol
STPD	Spanning Tree Domain
SVP	SpectraLink Voice Priority
SW	Software
SWG	Secure Web Gateway
SYSLOG	System Log
TACACS	Terminal Access Controller Access Control System
TCI	Tag Control Information
TCL	Tool Command Language
TCL	Traffic Classification Logic
TCN	Topology Change Notification
TCO	Total Cost of Ownership
TCP	Transfer Control Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
TELNET	Network Virtual Terminal Protocol
TFTP	Trivial File Transfer Protocol
TLD	Top-Level Domain
TLS	Transport Layer Security

TLV	Type-Length-Value or Tag-Length-Value
TOS	Type of Service
TPM	Trusted Platform Module
TRILL	Transparent Interconnection of Lots of Links
TSA	Totally Stubby Area
TSA	Transportation Security Administration
TTL	Time To Live
TWT	Target Wake Time
UC	Unified Communications
UCC	Unified Communications and Collaboration
UDP	User Datagram Protocol
UI	User Interface
UNI	User-to-Network Interface
UP	Universal Port
UPM	Universal Port Manager/Management
UPS	Uninterruptible Power Supply
URL	Uniform Resource Locator
UTM	Unified Threat Management
UZTNA	Universal Zero Trust Network Access
VAD	Value Added Distributor
VAR	Value Added Reseller
VGVA	VPN Gateway Virtual Appliance
VID	VLAN Identifier
VIM	Versatile Interface Module
VIP	Very Important Person
VIP	Video Over IP
VIP	Virtual IP
VIQ	Virtual IQ Account
VLAN	Virtual Local Area Network
VLSM	Variable Length Subnet Mask

VM	Virtual Machine
VMAN	Virtual Metropolitan Area Network
VNF	Virtualized Network Function
VNI	Virtual Network Identifier
VNS	Virtual Network Services
VoD	Video on Demand
VoIP	Voice over IP
VPC	Virtual Private Cloud
VPEX	Virtual Port Extender
VPLS	Virtual Private LAN Service
VPN	Virtual Private Network
VR	Virtual Router
VRF	Virtual Routing and Forwarding
VRID	Virtual Router ID
VRRP	Virtual Router Redundancy Protocol
VSA	Vendor Specific Attribute
VSN	Virtual Services Network
VTEP	VXLAN Tunnel Endpoint
VTI	Virtual Tunnel Interface
VXLAN	Virtual Extensible Local Area Network
WAN	Wide Area Network
WCCP	Web Cache Communication Protocol
WEP	Wired Equivalent Privacy
WFA	Work from Anywhere
WFH	Work from Home
WFQ	Weighted Fair Queuing
Wi-Fi	Wireless Fidelity
WIPS	Wireless Intrusion Prevention System
WLAN	Wireless Local Area Network
WMM	Wi-Fi Multi-Media

WO	WAN Optimization
WOC	WAN Optimization Controller
WPA	Wi-Fi Protected Access
WRED	Weighted Random Early Discard
WSG	Web Security Gateway
WTP	Wireless Termination Point
WWW	World Wide Web
XCA	Extreme Cloud Appliance (now XIQ-C)
XCC	Extreme Campus Controller (now XIQ-C)
XCO	ExtremeCloud Orchestrator
XIQ	ExtremeCloud IQ
XIQ-C	ExtremeCloud IQ - Controller (successor of XCA or XCC)
XIQ-SE	ExtremeCloud IQ - Site Engine (successor of XMC)
XMC	Extreme Management Center (now XIQ-SE)
XVM	Extreme Visibility Manager
ZBF	Zone-Based Firewall
ZD	Zero-day
ZTI	Zero Touch Installation
ZTNA	Zero Trust Network Access
ZTP	Zero Touch Provisioning
ZTP+	Zero Touch Provisioning Plus

