

# Abbreviations

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## A

|        |                                              |
|--------|----------------------------------------------|
| ACE    | access control entry                         |
| ACL    | access control list                          |
| AFI    | authority and format identifier              |
| Agport | aggregation port                             |
| AMP    | Active Monitor Present                       |
| APaRT  | Automated Packet Recognition and Translation |
| ARP    | Address Resolution Protocol                  |

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## B

|       |                                |
|-------|--------------------------------|
| BEM   | best effort method             |
| BGP   | Border Gateway Protocol        |
| BPDU  | bridge protocol data unit      |
| BRF   | bridge relay function          |
| BSC   | Bisync                         |
| BSTUN | Block Serial Tunnel            |
| BUS   | broadcast and unknown server   |
| BVI   | bridge-group virtual interface |

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**C**

|         |                                                   |
|---------|---------------------------------------------------|
| CAM     | content-addressable memory                        |
| CAR     | committed access rate                             |
| CCA     | circuit card assembly                             |
| CDP     | Cisco Discovery Protocol                          |
| CEF     | Cisco Express Forwarding                          |
| CHAP    | Challenge Handshake Authentication Protocol       |
| CIR     | committed information rate                        |
| CLI     | command-line interface                            |
| CLNS    | Connection-Less Network Service                   |
| CMNS    | Connection-Mode Network Service                   |
| COPS    | Common Open Policy Server                         |
| COPS-DS | Common Open Policy Server Differentiated Services |
| CoS     | class of service                                  |
| CPLD    | Complex Programmable Logic Device                 |
| CRC     | cyclic redundancy check                           |
| CRF     | concentrator relay function                       |
| CST     | Common Spanning Tree                              |

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**D**

|      |                                      |
|------|--------------------------------------|
| DAI  | Dynamic ARP Inspection               |
| DBL  | Dynamic Buffer Limiting              |
| DCC  | Data Country Code                    |
| dCEF | distributed Cisco Express Forwarding |
| DDR  | dial-on-demand routing               |
| DE   | discard eligibility                  |

|       |                                            |
|-------|--------------------------------------------|
| DEC   | Digital Equipment Corporation              |
| DFI   | Domain-Specific Part Format Identifier     |
| DFP   | Dynamic Feedback Protocol                  |
| DISL  | Dynamic Inter-Switch Link                  |
| DLC   | Data Link Control                          |
| DLSw  | Data Link Switching                        |
| DMP   | data movement processor                    |
| DNS   | Domain Name System                         |
| DoD   | Department of Defense                      |
| DOS   | denial of service                          |
| DRAM  | dynamic RAM                                |
| DRiP  | Dual Ring Protocol                         |
| DSAP  | destination service access point           |
| DSCP  | differentiated services code point         |
| DSPU  | downstream SNA Physical Units              |
| DTP   | Dynamic Trunking Protocol                  |
| DTR   | data terminal ready                        |
| DVMRP | Distance Vector Multicast Routing Protocol |
| DXI   | data exchange interface                    |

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**E**

|        |                                                     |
|--------|-----------------------------------------------------|
| EAP    | Extensible Authentication Protocol                  |
| EARL   | Enhanced Address Recognition Logic                  |
| EEPROM | electrically erasable programmable read-only memory |
| EHSA   | enhanced high system availability                   |

|      |                                   |
|------|-----------------------------------|
| EIA  | Electronic Industries Association |
| ELAN | Emulated Local Area Network       |
| EOBC | Ethernet out-of-band channel      |
| ESI  | end-system identifier             |

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**F**

|      |                                          |
|------|------------------------------------------|
| FECN | forward explicit congestion notification |
| FM   | feature manager                          |
| FRU  | field replaceable unit                   |
| FSM  | feasible successor metrics               |

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**G**

|      |                                         |
|------|-----------------------------------------|
| GARP | General Attribute Registration Protocol |
| GMRP | GARP Multicast Registration Protocol    |
| GVRP | GARP VLAN Registration Protocol         |

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**I**

|        |                                                   |
|--------|---------------------------------------------------|
| ICC    | Inter-card Communication                          |
| ICD    | International Code Designator                     |
| ICMP   | Internet Control Message Protocol                 |
| IDB    | interface descriptor block                        |
| IDP    | initial domain part or Internet Datagram Protocol |
| IDPROM | ID Programmable Read-Only Memory                  |
| IFS    | IOS File System                                   |
| IGMP   | Internet Group Management Protocol                |
| IGRP   | Interior Gateway Routing Protocol                 |

|       |                                                                         |
|-------|-------------------------------------------------------------------------|
| ILMI  | Integrated Local Management Interface                                   |
| IP    | Internet Protocol                                                       |
| IPC   | interprocessor communication                                            |
| IPX   | Internetwork Packet Exchange                                            |
| IS-IS | Intermediate System-to-Intermediate System Intradomain Routing Protocol |
| ISL   | Inter-Switch Link                                                       |
| ISO   | International Organization of Standardization                           |
| ISR   | Integrated SONET router                                                 |
| ISSU  | In Service Software Upgrade                                             |

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**L**

|      |                                    |
|------|------------------------------------|
| L2   | Layer 2                            |
| L3   | Layer 3                            |
| L4   | Layer 4                            |
| LAN  | local area network                 |
| LANE | LAN Emulation                      |
| LAPB | Link Access Procedure, Balanced    |
| LDA  | Local Director Acceleration        |
| LCP  | Link Control Protocol              |
| LEC  | LAN Emulation Client               |
| LECS | LAN Emulation Configuration Server |
| LEM  | link error monitor                 |
| LER  | link error rate                    |
| LES  | LAN Emulation Server               |
| LLC  | Logical Link Control               |
| LTL  | Local Target Logic                 |

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**M**

|      |                                       |
|------|---------------------------------------|
| MAC  | Media Access Control                  |
| MCL  | Mismatched Command List               |
| MD5  | Message Digest 5                      |
| MET  | Multicast Expansion Table             |
| MFIB | Multicast Forwarding Information Base |
| MIB  | Management Information Base           |
| MII  | media-independent interface           |
| MLS  | Multilayer Switching                  |
| MLSE | maintenance loop signaling entity     |
| MOP  | Maintenance Operation Protocol        |
| MOTD | message-of-the-day                    |
| MRM  | multicast routing monitor             |
| MRQ  | Multicast Replication Queue           |
| MSDP | Multicast Source Discovery Protocol   |
| MST  | Multiple Spanning Tree                |
| MTU  | maximum transmission unit             |
| MVAP | multiple VLAN access port             |

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**N**

|         |                                      |
|---------|--------------------------------------|
| NBP     | Name Binding Protocol                |
| NCIA    | Native Client Interface Architecture |
| NDE     | NetFlow Data Export                  |
| NET     | network entity title                 |
| NetBIOS | Network Basic Input/Output System    |
| NFFC    | NetFlow Feature Card                 |

|       |                              |
|-------|------------------------------|
| NMP   | Network Management Processor |
| NSAP  | network service access point |
| NTP   | Network Time Protocol        |
| NVRAM | nonvolatile RAM              |

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**O**

|      |                                            |
|------|--------------------------------------------|
| OAM  | Operation, Administration, and Maintenance |
| OSI  | Open System Interconnection                |
| OSPF | open shortest path first                   |

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**P**

|      |                                     |
|------|-------------------------------------|
| PAE  | port access entity                  |
| PAgP | Port Aggregation Protocol           |
| PBD  | packet buffer daughterboard         |
| PC   | Personal Computer (formerly PCMCIA) |
| PCM  | pulse code modulation               |
| PCR  | peak cell rate                      |
| PDP  | policy decision point               |
| PDU  | protocol data unit                  |
| PEM  | Power Entry Module                  |
| PEP  | policy enforcement point            |
| PGM  | Pragmatic General Multicast         |
| PHY  | physical sublayer                   |
| PIB  | policy information base             |
| PIM  | Protocol Independent Multicast      |
| PM   | Port manager                        |

|       |                         |
|-------|-------------------------|
| PPP   | Point-to-Point Protocol |
| PRC   | Parser Return Code      |
| PRID  | Policy Rule Identifiers |
| PVLAN | Private VLAN            |
| PVST+ | Per VLAN Spanning Tree+ |

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**Q**

|     |                    |
|-----|--------------------|
| QM  | QoS manager        |
| QoS | quality of service |

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**R**

|        |                                      |
|--------|--------------------------------------|
| RACL   | router interface access control list |
| RADIUS | Remote Access Dial-In User Service   |
| RAM    | random-access memory                 |
| RCP    | Remote Copy Protocol                 |
| RGMP   | Router Group Management Protocol     |
| RIF    | Routing Information Field            |
| RMON   | remote network monitor               |
| ROM    | read-only memory                     |
| RP     | route processor or rendezvous point  |
| RPC    | remote procedure call                |
| RPF    | reverse path forwarding              |
| RPR    | Router Processor Redundancy          |
| RSPAN  | remote SPAN                          |
| RST    | reset                                |

RSVP ReSerVation Protocol

Rx Receive

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## S

SAID Security Association Identifier

SAP service access point

SCM service connection manager

SCP Switch-Module Configuration Protocol

SDLC Synchronous Data Link Control

SGBP Stack Group Bidding Protocol

SIMM single in-line memory module

SLB server load balancing

SLCP Supervisor Line-Card Processor

SLIP Serial Line Internet Protocol

SMDS Software Management and Delivery Systems

SMF software MAC filter

SMP Standby Monitor Present

SMRP Simple Multicast Routing Protocol

SMT Station Management

SNAP Subnetwork Access Protocol

SNMP Simple Network Management Protocol

SPAN Switched Port Analyzer

SRB source-route bridging

SRT source-route transparent bridging

SSTP Cisco Shared Spanning Tree

STP Spanning Tree Protocol

|     |                            |
|-----|----------------------------|
| SVC | switched virtual circuit   |
| SVI | switched virtual interface |

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**T**

|         |                                                                 |
|---------|-----------------------------------------------------------------|
| TACACS+ | Terminal Access Controller Access Control System Plus           |
| TARP    | Target Identifier Address Resolution Protocol                   |
| TCAM    | Ternary Content Addressable Memory                              |
| TCL     | table contention level                                          |
| TCP/IP  | Transmission Control Protocol/Internet Protocol                 |
| TFTP    | Trivial File Transfer Protocol                                  |
| TIA     | Telecommunications Industry Association                         |
| TLV     | type-length-value                                               |
| TopN    | Utility that allows the user to analyze port traffic by reports |
| TOS     | type of service                                                 |
| TrBRF   | Token Ring Bridge Relay Function                                |
| TrCRF   | Token Ring Concentrator Relay Function                          |
| TTL     | Time To Live                                                    |
| TVX     | valid transmission                                              |
| Tx      | Transmit                                                        |

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**U**

|      |                                        |
|------|----------------------------------------|
| UDLD | UniDirectional Link Detection Protocol |
| UDP  | User Datagram Protocol                 |
| UNI  | User-Network Interface                 |
| UTC  | Coordinated Universal Time             |

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**V**

|       |                                |
|-------|--------------------------------|
| VACL  | VLAN access control list       |
| VCC   | virtual channel circuit        |
| VCD   | virtual circuit descriptor     |
| VCI   | virtual circuit identifier     |
| VCR   | Virtual Configuration Register |
| VINES | Virtual Network System         |
| VLAN  | virtual LAN                    |
| VMPS  | VLAN Membership Policy Server  |
| VTP   | VLAN Trunking Protocol         |
| VVID  | voice VLAN ID                  |

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**W**

|      |                                 |
|------|---------------------------------|
| WFQ  | weighted fair queueing          |
| WRED | weighted random early detection |
| WRR  | weighted round-robin            |

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**X**

|     |                      |
|-----|----------------------|
| XNS | Xerox Network System |
|-----|----------------------|

