



# Acronyms

Table A-1 defines the acronyms used in this publication.

**Table A-1** List of Acronyms

| Acronym | Expansion                                    |
|---------|----------------------------------------------|
| AAL     | ATM adaptation layer                         |
| ACE     | access control entry                         |
| ACL     | access control list                          |
| AFI     | authority and format identifier              |
| Agport  | aggregation port                             |
| ALPS    | Airline Protocol Support                     |
| AMP     | Active Monitor Present                       |
| APaRT   | Automated Packet Recognition and Translation |
| ARP     | Address Resolution Protocol                  |
| ATA     | Analog Telephone Adaptor                     |
| ATM     | Asynchronous Transfer Mode                   |
| AV      | attribute value                              |
| BDD     | binary decision diagrams                     |
| BECN    | backward explicit congestion notification    |
| 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               |
| CAM     | content-addressable memory                   |
| CAR     | committed access rate                        |
| CCA     | circuit card assembly                        |
| CDP     | Cisco Discovery Protocol                     |

**Table A-1 List of Acronyms (continued)**

| <b>Acronym</b> | <b>Expansion</b>                                  |
|----------------|---------------------------------------------------|
| CEF            | Cisco Express Forwarding                          |
| CHAP           | Challenge Handshake Authentication Protocol       |
| CIR            | committed information rate                        |
| CIST           | Common and internal spanning tree                 |
| 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                              |
| CUDD           | University of Colorado Decision Diagram           |
| DCC            | Data Country Code                                 |
| dCEF           | distributed Cisco Express Forwarding              |
| DDR            | dial-on-demand routing                            |
| DE             | discard eligibility                               |
| DEC            | Digital Equipment Corporation                     |
| DFC            | Distributed Forwarding Card                       |
| 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                                 |
| dot1q          | 802.1Q                                            |
| DRAM           | dynamic RAM                                       |
| DRiP           | Dual Ring Protocol                                |
| DSAP           | destination service access point                  |
| DSCP           | differentiated services code point                |
| DSPU           | downstream SNA Physical Units                     |

**Table A-1** *List of Acronyms (continued)*

| <b>Acronym</b> | <b>Expansion</b>                                    |
|----------------|-----------------------------------------------------|
| DTP            | Dynamic Trunking Protocol                           |
| DTR            | data terminal ready                                 |
| DXI            | data exchange interface                             |
| 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                        |
| EOF            | end of file                                         |
| ESI            | end-system identifier                               |
| FAT            | File Allocation Table                               |
| FECN           | forward explicit congestion notification            |
| FM             | feature manager                                     |
| FRU            | field replaceable unit                              |
| fsck           | file system consistency check                       |
| FSM            | feasible successor metrics                          |
| GARP           | General Attribute Registration Protocol             |
| GMRP           | GARP Multicast Registration Protocol                |
| GVRP           | GARP VLAN Registration Protocol                     |
| HSRP           | Hot Standby Routing Protocol                        |
| 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   |
| IDS            | Intrusion Detection System Module                   |
| 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                        |

**Table A-1 List of Acronyms (continued)**

| <b>Acronym</b> | <b>Expansion</b>                                                        |
|----------------|-------------------------------------------------------------------------|
| IS-IS          | Intermediate System-to-Intermediate System Intradomain Routing Protocol |
| ISL            | Inter-Switch Link                                                       |
| ISO            | International Organization of Standardization                           |
| ISR            | Integrated SONET router                                                 |
| IST            | Internal spanning tree                                                  |
| LAN            | local area network                                                      |
| LANE           | LAN Emulation                                                           |
| LAPB           | Link Access Procedure, Balanced                                         |
| LCP            | Link Control Protocol                                                   |
| LDA            | Local Director Acceleration                                             |
| 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                                                      |
| MAC            | Media Access Control                                                    |
| MD5            | Message Digest 5                                                        |
| MFD            | multicast fast drop                                                     |
| MSFC           | Multilayer Switch Feature Card                                          |
| 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                                                      |
| MLSE           | maintenance loops signaling entity                                      |
| MRM            | multicast routing monitor                                               |
| MSDP           | Multicast Source Discovery Protocol                                     |
| MSFC           | Multilayer Switching Feature Card                                       |
| MSM            | Multilayer Switch Module                                                |
| MST            | multiple spanning tree                                                  |
| MTU            | maximum transmission unit                                               |
| MVAP           | multiple VLAN access port                                               |

**Table A-1** *List of Acronyms (continued)*

| <b>Acronym</b> | <b>Expansion</b>                           |
|----------------|--------------------------------------------|
| NAM            | Network Analysis Module                    |
| 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               |
| NSF            | Nonstop Forwarding                         |
| NTP            | Network Time Protocol                      |
| NVRAM          | nonvolatile RAM                            |
| OAM            | Operation, Administration, and Maintenance |
| ODM            | order dependent merge                      |
| OSI            | Open System Interconnection                |
| OSM            | Optical Services Module                    |
| OSPF           | open shortest path first                   |
| 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                         |
| PEP            | policy enforcement point                   |
| PFC            | Policy Feature Card                        |
| PGM            | Pragmatic General Multicast                |
| PHY            | physical sublayer                          |
| PIB            | policy information base                    |
| PIM            | protocol independent multicast             |
| PPP            | Point-to-Point Protocol                    |
| PRID           | Policy Rule Identifiers                    |
| PVST+          | Per VLAN Spanning Tree+                    |
| QDM            | QoS device manager                         |
| QM             | QoS manager                                |

**Table A-1 List of Acronyms (continued)**

| <b>Acronym</b> | <b>Expansion</b>                         |
|----------------|------------------------------------------|
| QoS            | quality of service                       |
| RACL           | router interface access control list     |
| RADIUS         | Remote Access Dial-In User Service       |
| RAM            | random-access memory                     |
| RCP            | Remote Copy Protocol                     |
| RGMP           | Router-Ports Group Management Protocol   |
| RIB            | routing information base                 |
| RIF            | Routing Information Field                |
| RMON           | remote network monitor                   |
| ROM            | read-only memory                         |
| ROMMON         | ROM monitor                              |
| RP             | route processor or rendezvous point      |
| RPC            | remote procedure call                    |
| RPF            | reverse path forwarding                  |
| RPR            | route processor redundancy               |
| RPR+           | route processor redundancy plus          |
| RSPAN          | remote SPAN                              |
| RST            | reset                                    |
| RSVP           | ReSerVation Protocol                     |
| 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       |

**Table A-1 List of Acronyms (continued)**

| Acronym | Expansion                                                       |
|---------|-----------------------------------------------------------------|
| SRM     | single router mode                                              |
| SSO     | stateful switchover                                             |
| SPAN    | Switched Port Analyzer                                          |
| SREC    | S-Record format, Motorola defined format for ROM contents       |
| SSTP    | Cisco Shared Spanning Tree                                      |
| STP     | Spanning Tree Protocol                                          |
| SVC     | switched virtual circuit                                        |
| SVI     | switched virtual interface                                      |
| 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                         |
| TopN    | Utility that allows the user to analyze port traffic by reports |
| TOS     | type of service                                                 |
| TLV     | type-length-value                                               |
| TTL     | Time To Live                                                    |
| TVX     | valid transmission                                              |
| UDLD    | UniDirectional Link Detection Protocol                          |
| UDP     | User Datagram Protocol                                          |
| UNI     | User-Network Interface                                          |
| UTC     | Coordinated Universal Time                                      |
| VACL    | VLAN access control list                                        |
| VCC     | virtual channel circuit                                         |
| VCI     | virtual circuit identifier                                      |
| VCR     | Virtual Configuration Register                                  |
| VINES   | Virtual Network System                                          |
| VLAN    | virtual LAN                                                     |
| VMPS    | VLAN Membership Policy Server                                   |
| VPN     | virtual private network                                         |
| VRF     | VPN routing and forwarding                                      |
| VTP     | VLAN Trunking Protocol                                          |
| VVID    | voice VLAN ID                                                   |
| WAN     | wide area network                                               |

**Table A-1** *List of Acronyms (continued)*

| <b>Acronym</b> | <b>Expansion</b>                  |
|----------------|-----------------------------------|
| WCCP           | Web Cache Communications Protocol |
| WFQ            | weighted fair queueing            |
| WRED           | weighted random early detection   |
| WRR            | weighted round-robin              |
| XNS            | Xerox Network System              |