GLOSSARY

The following glossary of acronyms expands acronyms and initialisms that are used in *Cisco IOS System Messages*.

Numerals

10GE	10 Gigabit Ethernet

A

AAA	authentication, authorization, and accounting
AAL5	ATM adaptation layer 5
ABM	asynchronous balanced mode
ABR	Area Border Router
AC	alternating current
ACE	Allegro Crypto Engine
ACIP	ATM Cable Interface Processor
ACK	acknowledgment
ACL	access control list
ACO	alarm cutoff
ACTLU	activate logical unit
ACTPU	activate physical unit
ADSL	asymmetric digital subscriber line
AFI	Address Family Identifier
AH	Authentication Header
AIC	Alarm Interface Controller
AIM	Advanced Interface Module
AIM	advanced integration module

AIP	ATM Interface Processor
AIS	Alarm indication
ALC	ATM line card
ALPS	Airline Product Set
AMD	Advanced Micro Devices
ANR	Automatic Network Routing
ANSI	American National Standards Institute
ANY-PHY	Any physical layer-data link layer
AP	access point
AP	authentication proxy
API	application programming interface
APING	APPC Ping
APN	access point name
APPC	Advanced Program-to-Program Communications
APPN	Advanced Peer-to-Peer Networking
APS	automatic protection switching
AQD	average queue depth
ARAP	AppleTalk Remote Access Protocol
ARB	Adaptive Rate-Based
ARP	Address Resolution Protocol
ARQ	automatic repeat request
AS	autonomous system
ASCU	agent-set control unit
ASIC	application-specific integrated circuit
ASP	ATM switch processor
ATA	Advanced Technology Attachment
ATA	Analog Telephone Adaptor
ATF	area to free
ATM	Asynchronous Transfer Mode

AToM	Any Transport over MPLS
AURP	AppleTalk Update-Based Routing Protocol
AutoRP	Auto-Rendezvous Point
AVL	approved vendor list

B

BAP	Bandwidth Allocation Protocol
BB	broadband
BBI	begin bracket indicator
BCS	business critical solution
BERT	bit error rate tester
BFR	Bigger, Faster Router
BFRP	big fast route processor
BGP	Border Gateway Protocol
BGPPA	Border Gateway Protocol Policy Accounting
BIC	backplane interface card
BIDI	bidirectional bus
BIND	Berkeley Internet Name Domain
BIP	bit interleaved parity
BIS	Broadband Interface Shelf
BLLI	Broadband Low Layer Information
BMA	Buffer Management ASIC
BOOM	10BASE-T Ethernet LAN interface card
BOOTP	Bootstrap Protocol
BPDU	bridge protocol data unit
BPI	baseline privacy interface
BPVC	Bridged Permanent Virtual Circuit
BR	*Undefined*

BRI	Basic Rate Interface
BRF	Bridge Relay Function
BSC	Binary Synchronous Communications
BSS	Business Support System
BSTUN	Block Serial Tunnel
BTU	British thermal unit
BUS	broadcast-and-unknown server

C

CA	certification authority
CAIM	Compression Advanced Interface Module
CAM	content-addressable memory
CAMR	Cisco Access Metro Router
CAR	*Undefined*
CAS	channel-associated signaling
CASA	Cisco Appliance and Services Architecture
CBAC	Context-Based Access Control
CBC	Cell Bus Controller
CBI	Cell Bus Interface
CBus	CiscoBus
CBWFQ	Class Based Weighted Fair Queueing
CCA	Common Configuration Architecture
CCAPI	call control API
CCB	call control block
CCB	configuration control block
CCO	Cisco Connection Online
CCW	channel command word
CDI	Common Driver Interface

CDL	Converged Data Link
CDM	cable data modem
CDP	Cisco Discovery Protocol
CDR	clock and data recovery
CE	certificate enrollment
CEB	Common EMS Base
CEBI	conditional end bracket indicator
CEF	Cisco Express Forwarding
CES	circuit emulation service
CET	Cisco Encryption Technology
CF	Checkpoint Facility
CFI	Common Flash Interface
CGMP	Cisco Group Management Protocol
CGX	CryptoGraphics eXtensions
CHAP	Challenge Handshake Authentication Protocol
cHPI	compact Host Port Interface
CI	connection identifier
CICS	Customer Information Control System
CIP	Channel Interface Processor
CIR	committed information rate
CIS	Card Information Services
CIU	Communication Interface Unit
CLAW	Common Link Access for Workstations
CLI	command-line interface
CLNS	Connectionless Network Service
CLS	Cisco link services
CLSI	Cisco link services interface
CMCC	Cisco Mainframe Channel Connection
CMNS	Connection Mode Network Service

CMPC	Cisco Multipath Channel
CMTS	cable modem termination system
CNR	Cisco Network Registrar
CNOS	change number of sessions
CNS	Cisco Networking Services
CNSP	Complete Number Sequence PDU
COAPS	Count of APS switchovers
codec	coder-decoder
CoS	class of service
CoSQ	Class of Service Queues
COT	continuity testing
CP	control point
CP	coprocessor
CPA	Channel Port Adapter
CPE	customer premises equipment
CPI	common part indicator
CPI-C	common programming interface for communications
CPK	*Undefined*
CPM	Combination Port Module
CPUIF	*Undefined*
CRC	cyclic redundancy check
CRF	Concentrator Relay Function
CRL	certificate revocation list
cRTP	compressed Real-Time Protocol
CRV	call reference value
CSA	compression service adapter
CSAR	Cisco Cell Segmentation and Reassembly
CSC	clock switch card
CSG	Content Services Gateway

CSI	called subscriber identification
CSM	call switching mode
CSM	call switching module
CSNA	Cisco SNA
CSNP	Complete Sequence Number PDU
CSU	channel service unit
CTC	Cisco Transport Controller
CTL	Certificate Trust List
CTRC	Cisco Transaction Connection
CTS	Clear To Send
CV	Cisco View
CWAN	Constellation WAN
CWTLC	Constellation Wan Toaster Line Card
CyBus	Cisco Extended Bus

D

DAE	data aggregrator end
DBus	diagnostic bus
DC	direct-connect
DC	direct current
DCD	data carrier detect
DCE	data communications equipment
dCEF	distributed Cisco Express Forwarding
DDOS	distributed denial of service
DDR	dial-on-demand routing
DDSM	Digital Data Services Manager
DECnet	Digital Equipment Corporation network
DEMUX	demultiplexer

DFC	dial feature card
DFP	Dynamic Feedback Protocol
DFRAC	Dual Framer and RAC
DHCP	Dynamic Host Configuration Protocol
DHCPv6	Dynamic Host Configuration Protocol, version 6
DIB	Directory Information Base
DIP-4	4-bit Diagonal Interleaved Parity
DLC	data-link connection
DLC	data-link control
DLCI	data-link connection identifier
dLFI	Distributed Link Fragmentation and Interleaving
dLFIoATM	Distributed Link Fragmentation and Interleaving over ATM
dLFIoFR	Distributed Link Fragmentation and Interleaving over Frame Relay
DLR	designated local retransmitter
DLSw	data-link switching
DLU	dependent logical unit
DLU	destination logical unit
DLU	dynamic logical unit
DLUR	dependent logical unit requester
DLUS	dependent logical unit server
DM	dense mode
DM	disconnect mode
DMA	direct memory access
DMAC	destination MAC
DML	distributed multilink
DMLP	Distributed Multilink Point-to-Point Protocol
DNIS	dialed number identification service
DNS	Domain Name Server
DNS	Domain Name Service

DNS	Domain Name System
DOCSIS	Data-over-Cable Service Interface Specifications
DOI	domain of interpretation
DoS	denial of service
DPRAM	dual-port RAM
DR	Designated Router
DR	dynamic replenishment
DRAM	dynamic RAM
DRDA	Distributed Relational Database Architecture
DRiP	Duplicate Ring Protocol
DRP	Director Response Protocol
DRQ	Direct memory access Receive Queue
DS	dial shelf
DSA	delayed stop accounting
DSC	dial shelf control
DSC	dial shelf controller
DSCP	differentiated service code pointer
DSI	dial shelf interconnect
DSI	dial shelf interface
DSIP	Dial Shelf Interconnect Protocol
DSL	digital subscriber line
DSLAM	digital subscriber line ATM multiplexer
DSMP	Distributed Stream Media Processor
DSP	digital signal processor
DSP	Domain Specific Part
DSP	digital signal processor
DSPFARM	digital signal processor farm
DSPM	digital signal processor module
DSPRM	Digital Signal Processor Resource Manager

DSPU	downstream physical unit
DSR	data set ready
DSU	data service unit
DSU	digital service unit
DTE	data terminal equipment
DTP	Dynamic Trunking Protocol
DTQ	Direct memory access Receive Queue
DTR	data terminal ready
DVMRP	Distance Vector Multicast Routing Protocol

E

E1T1	E1 line or T1 line
EADI	Extended Availability Drop and Insert
EAIM	Encryption AIM
EAP	Extensible Authentication Protocol
EAPoUDP	Extensible Authentication Protocol over User Datagram Protocol
EARL	enhanced address recognition logic
EC	EtherChannel
ECA	ESCON Channel Adapter
ECC	error-correcting code
ECC	Error-Check Code
ECC	error checking and correction
ECM	Extensible Call Model
ECM	External Control Memory
EEM	Embedded Event Manager
EEPROM	electronically erasable programmable read-only memory
EGP	exterior gateway protocol
EHSA	enhanced high system availability

EID	endpoint identifier
EIGRP	Enhanced Interior Gateway Routing Protocol
EIO	Elastic I/O
ELAN	emulated LAN
ENUM	enumeration
ENVM	Constellation WAN Environmental Monitor
EOBC	Ethernet Out-of-Band Channel
EOC	embedded operations channel
EOF	end-of-frame
EOIR	enhanced online insertion and removal
EoMPLS	Ethernet over MPLS
EOU	Extensible Authentication Protocol over User Datagram Protocol
EPM	External Packet Memory
ESCON	Enterprise System Connection
ESMP	Even Simpler Management Protocol
ESP	Extended Services Processor
ESP	Extended Services Platform
ESW	Ethernet Switch
ESWILP	Ethernet Switch with Inline Power
ESYS	*Undefined*
ETM	Enhanced Timing Module
EXAR	Chip manufacturer

F

FAQ	frequently asked question
FB	feature board
FBB	fast back-to-back
FBB	from backplane buffer

FCFS	First Come First Served
FCIT	Fiber Channel Idle Time
FC-PFQ	feature card per-flow queueing
FCPA	Fibre Channel Port Adapter
FCS	frame check sequence
FDDI	Fiber Distributed Data Interface
FDL	Facility Data Link
FDM	frequency-division multiplexing
FE	Fast Ethernet
FEC	Fast EtherChannel
FECPM	Fast Ethernet Combo Port Module
FI	format indicator
FIA	Fabric Interface ASIC
FIB	forwarding information base
FIFO	first-in, first-out
FIR	Finite Impulse Response
FM	fault monitoring
FMSP	Fax Media Services Provider
FPGA	field-programmable gate array
FPI	Forwarding Path Identifier
FQDN	fully qualified domain name
FQPCID	fully qualified procedure correlation identifier
FREEDM	Frame EnginE and Data link Manager
FRMR	Frame Reject
FRoM	FrameRelay over MPLS
FRoMPLS	FrameRelay over MPLS
FRR	Fast ReRoute
FRU	field-replaceable unit
FSIP	Fast Serial Interface Processor

FSM	finite state machine
FTBB	from/to backplane buffer
FTP	File Transfer Protocol

G

GBIC	Gigabit Interface Converter
GC	global configuration
GDS	general data stream
GE	Gigabit Ethernet
GEFC	Gigabit Ethernet/Fibre Channel
GEIP	Gigabit Ethernet Interface Processor
GGSN	gateway GPRS support node
GKTMP	Gatekeeper Transaction Message Protocol
GLBP	Gateway Load Balancing Protocol
GLC	gigabit line card
GP	Global Pointer
GPRS	general packet radio service
GRP	gigabit route processor
GSN	GPRS support node
GSR	Internet router
GT95K	*Undefined*
GTF	Generalized Trace Facility
GTP	GPRS tunneling protocol
GULF	GULF-2488 ASIC

H

HA	High Availability
HA	Home Agent

HAL	Halcyon
HAPX	Hardware Assisted Packet Classification
HDLC	High-Level Data Link Control
HDV	High Density Voice
HDX	half-duplex
HEC	header error control
HERA	*Undefined*
HGW	home gateway
HMAC	hash message authentication codes
HMS	Home Media Server
HPI	Host Port Interface
HPR	High-Performance Routing
HQF	Hierarchical Queuing Framework
HSA	high system availability
HSRP	Hot Standby Router Protocol
HSSI	High Speed Serial Interface
HT-FPGA	Hyper Transport Field-Programmable Gate Array
HWAF	Hardware Address Filtering
HWIC	High-Speed WAN Interface Card
HWICD	High-Speed WAN Interface Card, double-wide
HWIDB	hardware interface descriptor block

I

I2C	Inter-Integrated Circuit
IBGP	internal BGP
IBL	Input Buffer Logic
IBOC	in-band bit-oriented code
ICC	Inter Card Communication

ICC	Interface Controller Card
ICMP	Internet Control Message Protocol
ICPIF	Calculated Planning Impairment Factor
ICS	Integrated Communication System
IDAP	Internet Data Access Presentation
IDB	interface descriptor block
IDPROM	Identification PROM
IDS	Internal Data Services
IDT	Integrated Digital Terminal
IDU	indoor unit
IE	information element
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IF	intermediate frequency
IGMP	Internet Group Management Protocol
IGRP	Interior Gateway Routing Protocol
IIC	*Undefined*
IIF	Input interface
IIH	IS to IS Hello PDU
IIN	*Undefined*
IKE	Internet Key Exchange
ILMI	Integrated Local Management Interface
ILP	inline power
ILPM	inline power module
IMA	inverse multiplexing over ATM
IMSI	international mobile subscriber identity
IOB	*Undefined*
IP	Internet Protocol
IPC	interprocess communication

IPDC	Internet Protocol device control
IPDLC	IP data link connection
IPE	Inter-PRE Ethernet
IPG	Inter Packet Gap
IPHC	IP Header Compression
IPM	Cisco Internetwork Performance Monitor
IPPCP	IP Payload Compression Protocol
IPRM	IP Router Manager
IPS	IP Storage
IPSec	IP Security
IPv6	IP version 6
IPX	Internetwork Packet eXchange
ISA	Integrated Services Adapter
ISAKMP	Internet Security Association and Key Management Protocol
ISDN	Integrated Services Digital Network
ISE	Internet Services Engine
IS-IS	Intermediate System-to-Intermediate System
ISL	Inter-Switch Link
ISR	intermediate session routing
ISRHOG	Interrupt Service Routine HOG
ISSU	In-Service Software Upgrade
IST	Internal Spanning Tree
IVR	interactive voice response
IXP	Internet Exchange Point

L

L2	Layer 2
L2F	Layer 2 Forwarding

LAC	L2TP access concentrator
LACP	Link Aggregate Control Protocol
LAIS	SONET Line level Alarm Indication Signal
LANCE	Local Area Network Controller Ethernet
LANE	LAN Emulation
LAPB	Link Access Procedure, Balanced
LAT	local-area transport
LC	line card
LCATM	Label controlled ATM
LCB	Line Control Block
LCC	Line card Configuration Coordinator
LCD	liquid crystal display
LCDOS	line card operating system software
LCI	local channel identifier
LCN	logical channel number
LDLC	LocalDirector link control
LDN	local directory number
LDP	Label Distribution Protocol
LEC	LANE Client
LECS	LANE Configuration Server
LED	light-emitting diode
LEN	low-entry networking
LES	LANE Server
LFD	Label Forwarding Database
LFSID	local-form session identifier
LIR	link incident report
LIU	line interface unit
LLC	logical link control
LLC2	Logical Link Control, type 2

LLD	low level design
LMI	Local Management Interface
LNM	LAN Network Manager
LNS	L2TP network server
LOF	Loss of Frame
LOS	Loss of Signal
LPD	line printer daemon
LRC	line card redundancy controller
LRJ	location rejection
LRQ	location request
LS	LightStream
LSA	link-state advertisement
LSD	label switching database
LSIPC	LightStream interprocess communication
LSP	label switch path
LSP	link-state packet
LSP	Link-State PDU
LSS	LightStream switching
LU	logical unit
LU6.2	logical unit type 6.2
LVC	label switched controlled virtual circuits
LWAPP	Lightweight Access Point Protocol
LYRA	Constellation+ Advanced Forwarding Engine Layer2

M

MAC	Media Access Control
MAR	Midrange Access Routers
MARS	Multicast Address Resolution Server

MATM	MAC Address Table Manager
MAU	media attachment unit
MAX	maximum
MBE	multiple-bit error
MBRI	Multi-BRI
MBRI	Multiport Basic Rate Interface
MBus	maintenance bus
MCD	*Undefined*
MCNS	Multimedia Cable Network System Partners, Ltd.
MCOM	Microcom carrier card
MCDMA	Multi-Channel DMA
MCSC	Multi-Channel Serial Controller
MD5	message digest 5
MDB	Multicast Descriptor Block
MDL	maintenance data link
MDRR	Modified Deficit Round Robin
MDS	multicast distributed switching
MDSS	Multicast Distributed Shortcut Switching
MDT	multicast distribution tree
MEMD	memory device
MFD	Multicast Fast Drop
MFE	Multi-port Fast Ethernet
MFI	MPLS forwarding infrastructure
MFIB	Multicast Forwarding Information Base
MGCP	Media Gateway Control Protocol
MGID	*Undefined*
MIB	Management Information Base
MIB/SMT	Management Information Base/Station Management
MIC	media interface connector

MICA	Modem ISDN channel aggregation
MID	Multiplex ID
MIDB	multicast interface data block
MII	media-independent interface
MLD	Multicast Listener Discovery
MLP	Multilink Point-to-Point Protocol
MLPPP	Multilink Point-to-Point Protocol
MLS	multilayer switching
MLSM	multi-layer switching for multicast
MLTG	multilink trunk group
MMAP	memory map
MMC	*Undefined*
MMI	Modem Management Interface
MMLS	multicast multilayer switching
MNCNS	Multimedia Cable Network System Partners, Ltd.
MNP4	Microcom Networking Protocol 4
MP	Multilink Protocol
MPC	MultiPath Channel
MPC	Multiprotocol-over-ATM client
MPLS	Multiprotocol Label Switching
MPOA	Multiprotocol over ATM
MPPE	Microsoft Point to Point Encryption
MPS	Multiprotocol-over-ATM server
MQC	Modular Quality of Service (QoS) command line interface (CLI)
MRIB	Multicast Routing Information Base
MRP	Multiservice Routing Processor
MPT	Ministry of Posts and Telecommunications
mroute	Multicast route
MRW	*Undefined*

MS	Management Services
MS	mobile subscriber
MSC	Modular Services Card
MSDP	Multicast Source Discovery Protocol
MSFC	Multilayer Switch Feature Card
MSP	Media Service Provider
MSR	Multiservice Switch Router
MSS	maximum segment size
MST	Multiple Spanning-Tree Protocol
MSTOO	multiple spanning tree root
Mtree	matings tree
MTU	maximum transmission unit
MURIB	Multicast Unicast Routing Information Base
MVIP	Versatile Interface Processor
MW	*Undefined*
MWAM	Multi-Processor WAN Application Module
Mx	Mueslix

N

NAK	negative acknowledgment
NAM	Network Analysis Module
NAS	network access server
NAT	Network Address Translation
NBAR	network-based application recognition
NBP	Name Binding Protocol
NCE	network connection endpoint
NCP	Network Control Program
NCP	Network Control Protocol

NEAT	E1 and T1 processor
NFAS	Non Facility Associated Signaling
NHDR	Network Layer Header
NHRP	Next Hop Resolution Protocol
NHS	Next Hop Server
NIM	network interface module
NIP	Nitro Interconnect Protocol
NLP	network-layer packet
NLSP	NetWare Link Services Protocol
NM	network module
NM-HD	high density network module
NME	Network Management Ethernet
NMI	nonmaskable interrupt
NMP	Network Management Processor
NMS	network management system
NMVT	network management vector transport
NNI	Network-to-Network Interface
NNS	network node server
NPE	network processing engine
NRM	normal response mode
NRP	Network Routing Processor
NRP	node route processor
NSAP	network service access point
NSDB	Network Security Database
NSE	network services engine
NSF	Non-stop forwarding
NSP	Network Switch Processor
NSP	node switch processor

| **NTP** | Network Time Protocol |
| **NVRAM** | nonvolatile RAM |

O

OAM	Operation, Administration, and Maintenance
OBL	Output Buffer Logic
OC	Optical Carrier
ODU	outdoor unit
OER	Optimized Edge Routing
OFC	open fiber control
OIF	Output interface
OIR	online insertion and removal
ONS	Optical Networking Systems
OOBP	out-of-band port
OOD	Online Offline Diagnostics
OOS	out of service
ORF	outbound route filter
OSCP	Optical Supervisory Channel Protocol
OSM	Optical Services Module
OSP	Open Settlements Protocol
OSPF	Open Shortest Path First
OSS	Operations Support System
OU	organizational unit

P

PA	port adapter
PAD	packet assembler/disassembler
PAgP	Port Aggregation Protocol

PAM	port adapter module card
PAM	pulse amplitude modulation
PAN	4-Port and (8+1) Port ESWILP HWIC
PAP	Password Authentication Protocol
PARAM1	*Undefined*
PARAM2	*Undefined*
PASCB	port adapter system control block
PASV	passive mode FTP
PBP	packet-by-packet
PC	program counter
PCA	Parallel Channel Adapter
PCF	Packet Control Function
PCF	Profile Configuration File
PCI	protocol control information
PCID	procedure correlation identifier
PCM	pulse code modulation
PCMCIA	Personal Computer Memory Card International Association
PCR	peak cell rate
PDP	policy decision point
PDSN	Packet Data Serving Node
PDU	protocol data unit
PEMF	Power Entry Module and Filter
PF	protocol filtering
PGM	Pragmatic General Multicast
PHAD	Physical Layer Interface Module (PLIM) header add-drop ASIC
PHY	physical layer interface
PIC	Peripheral Interface Controller
PIC	point in call
PIE	protocol information element

PIF	Packet Input FIFO
PIM	Protocol Independent Multicast
PIM-SM	*Undefined*
PIMv2	Protocol Independent Multicast version 2
PIU	PCM Interface Unit
PKCS	Public Key Cryptographic Standards
PKI	public key infrastructure
PLD	programmable logic device
PLIM	Physical Layer Interface Module
PLU	primary logical unit
PLX	PCI to local bus bridge vendor
PM	port management
PMA	Packet Memory Access
PMC	PCI Mezzanine Card
PMON	Performance Monitor
PNNI	Private Network-Network Interface
PNSP	Partial Number Sequence PDUs
POE	Power Over Ethernet
PoS	Packet over SONET
PoS	Packet over SONET/SDH
POST	power-on self test
POT1E1	Packet Over T1 E1
POTS	plain old telephone service
PPC	primary point code
PPP	Point-to-Point Protocol
PQUICC	Quad Integrated Communications Controller
PRE	Performance Routing Engine
PRI	Primary Rate Interface
PROM	programmable read-only memory

PRP	Performance Route Processor
PSA	Packet Switching ASIC
PSC	processor and switch card
PSM	Protection Switch Module
PSNP	Partial Sequence Number PDU
PTB	Peer Transaction Bus
PTM	Packet Transfer Mode
PU	physical unit
PU 2.0	Physical Unit type 2.0
PU 2.1	Physical Unit type 2.1
PVC	permanent virtual circuit
PVC	permanent virtual connection
PVDM	Packet Voice DSP Module
PVID	Port VLAN ID
PVP	permanent virtual path
PVST+	Per-VLAN Spanning Tree
PXF	Parallel eXpress Forwarding
PXM	Processor Switching Module

Q

QA	queue and accumulator
QEM	QEM driver
QLLC	Qualified Logical Link Control
QM	QoS manager
QMAC	Quad Token Ring Media Access Controller ASIC
QoS	quality of service
QSTAT	*Undefined*

R

RA	registration authority
RAC	Resource Availability Confirm
RAC	Ring Access Controller
RADIUS	Remote Authentication Dial-In User Service
RARP	Reverse Address Resolution Protocol
RAS	Registration, Admission, and Status
RAS	remote access server
RBCP	Router Blade Configuration Protocol
RBD	receive buffer descriptor
RBS	Robbed-Bit Signaling
RCP	remote copy protocol
RDB	relational database
RE	*Undefined*
RED	*Undefined*
REQACTPU	request to activate a physical unit
REQDACTPU	request to deactivate a physical unit
REQ(D)ACTPU (RSP)	Route Switch Processor request to activate or deactivate a physical unit
REXEC	remote execution
RF	radio frequency
RF	Redundancy frequency
RIB	Routing Information Base
RIM	*Undefined*
RIP	Routing Information Protocol
RISC	reduced instruction set computing
RJE	remote job entry
RLDRAM	*Undefined*

RLM	Redundant Link Manager
RMON	Remote Network Monitoring
RNR	receive not ready
ROM	read-only memory
RP	Route Processor
RPA	Resource Pool Allocation
RPC	Remote Procedure Call
RPF	Reverse Path Forwarding
RPM	Route Processor Module
RPM	Resource Pool Management
RPMXF	Route Processor Module, express forwarding
RPR	Route Processor Redundancy
RPR+	Route Processor Redundancy plus
RPS	Ring Parameter Server
RR	receive ready
RRP	Redundant Route Processor
RS	router shelf
RS-232	EIA/TIA-232
RSA	Rivest, Shamir, and Adelman (a public-key cryptographic system)
RSC	route switch controller
RSCPB	RSC front panel push button
RSCV	Route Selection Control Vector
rsh	remote shell
RSM	Route Switch Module
RSP	Route Switch Processor
RSPAN	Remote Switched Port Analyzer
RSRB	remote source-route bridging
RSRC	Resource
RSVP	Resource Reservation Protocol

RTAL	Receive Telecombus Aligner/Interface
RTC	real-time console
RTM	Real Time Monitor
RTP	Rapid Transport Protocol
RTP	Real-Time Transport Protocol
RTR	response time reporter
RTS	Request To Send
RTT	round-trip time
RTTMON	Round Trip Time Monitor
RU	request/response unit
RUDP	Reliable User Data Protocol
Rx	Receive
RXP	Resonate Exchange Protocol

S

SA	security association
SA	Source-Active
SA	Service Assurance
SADB	security association database
SAF24	SAR adapter FPGA OC24
SAFI	Subsequent Address Family Identifier
SAP	service access point
SAR	segmentation and reassembly
SBE	single-bit error
SC	*Undefined*
SCB	storage control blocks
SCB	system control board
SCC	Signaling Connection Control

SCCP	Signaling Connection Control Part
SCM	Service Connection Manager
SCP	Service Control Point
SCP	Switch-Module Configuration Protocol
SCP	System Control Protocol
SCR	sustained cell rate
SDCC	Serial Data Communication Channel
SDEE	Security Device Event Exchange
SDF	Signature Definition File
SDLC	Synchronous Data Link Control
SDLLC	Synchronous Data Logical Link Control
SDM	Security Device Manager
SDP	Session Description Protocol
SDP	Shelf Discovery Protocol
SDRAM	synchronous DRAM
SDT	Start Data Transfer
SEF	severely errored frames
SERDES	Serializer-Deserializer
SFC	switch fabric card
SFP	Small Form Factor Pluggable
SGBP	Stack Group Bidding Protocol
SGCP	Simple Gateway Control Protocol
SGSN	Serving GPRS Support Node
SID	Service ID
SIM	*Undefined*
SIMM	single in-line memory module
SIP	Session Initiation Protocol
SLARP	Serial Line Address Resolution Protocol
SLB	Server Load Balancing

SLC	signaling link code
SLCI	Signaling Link Code Interface
SLIC	Subscriber Line Interface Circuit
SLIP	Serial Line Internet Protocol
SLU	secondary logical unit
SM	sparse mode
SM	state machine
SMbus	System Management bus
SMDS	Switched Multimegabit Data Service
SME	Signature Micro Engine
SMRP	Simple Multicast Routing Protocol
SMTP	Simple Mail Transfer Protocol
SNA	Systems Network Architecture
SNASw	SNA Switching Services
SNMP	Simple Network Management Protocol
SNR	signal-to-noise ratio
SNRM	Set Normal Response
SO-DIMM	Small Outline Dual In-line Memory Modules
SOF	start-of-frame
SOP	Second-Generation Packet-over-SONET
SP	Switch Processor
SPA	Shared Port Adapter
SPAN	Switched Port Analyzer
SPD	Security Policy Database
SPE	service processing element
SPI	security parameter index
SPI4	*Unavailable.*
SPID	service profile identifier
SPM	source path message

SPMM	SIMM DSP module
SRA	Seamless Rate Adaptation
SRA	source routing accelerator
SRAM	static RAM
SRC	Switch Redundancy Controller
SRCP	Simple Resource Coordination Protocol
SRDB	source route relational database
SRIC	Sculptor Input Controller
SRIF	Sculptor Interface
SROC	Sculptor Output Controller
SRP	Server Redundancy Protocol
SRP	Spatial Reuse Protocol
SRR	Single Ring Recovery Protocol
SSA	Serial Storage Architecture
SSCOP	Service-Specific Connection-Oriented Protocol
SSCP	system services control points
SSE	silicon switching engine
SSG	Service Selection Gateway
SSH	Secure Shell
SSL	Secure Socket Layer
SSM	Single State Mode
SSM	Source Specific Multicast
SSO	Stateful SwitchOver
SSP	Silicon Switch Processor
SSP	state synchronization protocol
SSRAM	synchronous static RAM
SSRP	Simple Server Redundancy Protocol
SSS	Subscriber Service Switching
SSTP	Shared Spanning-Tree Protocol

STP	Spanning-Tree Protocol
STUN	serial tunnel
SU	service unit
SU	signaling unit
SVC	switched virtual circuit
SVI	switched virtual interface
SVIP	Versatile Interface Processor 2
SW56	switched 56K
SWIDB	software for Interface Descriptor Block
SYSMGT	system management

T

TAC	Cisco Technical Assistance Center
TACACS	Terminal Access Controller Access Control System
TAZ-B	*Undefined*
TBB	to backplane buffer
TBI	Ten Bit Interface
TBM	Transmit Buffer Manager
TCA	telecommunications access method
TCATM	Tag Control ATM
TCAM	Ternary Content Addressable Memory
TCB	Transmission Control Block
TCL	Toolkit Command Language
TCP	Transmission Control Protocol
TDM	time-division multiplexing
TDP	Tag Distribution Protocol
TDR	time domain reflectometer
TE	terminal equipment

TE	tunnel equipment
TE3	*Undefined*
TED	Tunnel Endpoint Discovery
TEI	terminal endpoint identifier
TFIB	Tag Forwarding Information Base
TFTP	Trivial File Transfer Protocol
TG	transmission group
TIB	Tag Information Base
TIM	Tree Information Base
TIC	Toaster Input Controller
TID	Terminal Identifier
TIFF	tagged image file format
TLB	translation look-aside buffer
TLV	type, length, value
TMQ	terminal port queueing
ToS	Type of Service
TP	Transport Protocol
TR	Token Ring
TRANGE	time-range
TSC	Tag Switch Controller
TSCAM	Traffic Shaping Carrier Access Module
TSI	transmitting subscriber information
TSP	tag-switched path
TT	*Undefined*
TT2RP	Toaster-to-RP
TTAL	Transmit Telecombus Aligner/Interface
TTL	time to live
TVC	tag switched controlled virtual circuit

TVC	tag virtual circuits
Tx	transmit

U

UA	unnumbered acknowledgement
UART	Universal Asynchronous Receiver/Transmitter
UCB	University of California, Berkeley
Ucode	Microcode
UDF	*Undefined*
UDLD	UniDirectional Link Detection
UDP	User Datagram Protocol
UPF	*Undefined*
UPS	uninterruptible power supply
URM	Universal Router Module
uRPF	Unicast Reverse Path Forwarding

V

VACL	VLAN access control list
VAD	voice activity detection
VBR	variable bit rate
VBR-nRT	variable bit rate—non-real time
VC	virtual circuit
VCC	virtual channel connection
VCD	virtual circuit descriptor
VCCI	Virtual Channel Common Index
VCHAN	virtual channel
VCI	virtual channel identifier [*ATM only*]
VCN	virtual circuit number

VDSL	very high bitrate digital subscriber line
VFC	voice feature card
VFC	VoIP feature card
VFR	Virtual Fragment Reassembly
VG	voice gateway
VIC	voice interface card
VIP	Versatile Interface Processor
VLAN	virtual LAN
VMAC	Virtual MAC
VMPS	VLAN Membership Policy Server
VMR	value, mask, result
VNM	Voice Network Manager
VoIP	Voice over IP
VP	virtual path
VPC	virtual path connection
VPD	voice packet driver
VPDN	Virtual Private Dialup Network
VPI	virtual path identifier
VPN	Virtual Private Network
VPNv4	Virtual Private Network version 4
VQP	VLAN Query Protocol
VQPC	VQP client
VRF	VPN Routing and Forwarding
VRRP	Virtual Router Redundancy Protocol
VSI	Virtual Switch Interface
VSM	Voice Service Manager
VT	virtual terminal
VTAM	virtual telecommunications access method
VTMS	Versatile Traffic Management and Shaping

VTP	VLAN Trunk Protocol
VTSP	voice telephony service provider
VTT	voltage termination
VWIC	Voice/WAN interface card

W

WCCP	Web Cache Communication Protocol
WCS	writable control store
WDS	Wireless Domain Services
WIC	WAN interface card
WLM	Workload Manager
WRED	Weighted Random Early Detection
WWW	World Wide Web

X

XCA	external communication adapter
XCVR	transceiver
XDR	eXternal Data Representation
XID	exchange identification
XML	eXtensible Markup Language
XNS	Xerox Network Systems
XOT	X.25-over-TCP
XTagATM	extended tag ATM

Z

| ZBT | zero bus turnaround |