



The following glossary of acronyms expands acronyms and initialisms that are used in *Cisco IOS System Messages*, Release 12.4.

## A

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

<b>AMD</b>	Advanced Micro Devices
<b>ANR</b>	Automatic Network Routing
<b>ANSI</b>	American National Standards Institute
<b>ANY-PHY</b>	Any physical layer-data link layer
<b>AP</b>	authentication proxy
<b>API</b>	application programming interface
<b>APING</b>	APPC Ping
<b>APN</b>	access point name
<b>APPC</b>	Advanced Program-to-Program Communications
<b>APPN</b>	Advanced Peer-to-Peer Networking
<b>APS</b>	automatic protection switching
<b>ARAP</b>	AppleTalk Remote Access Protocol
<b>ARB</b>	Adaptive Rate-Based
<b>ARP</b>	Address Resolution Protocol
<b>ARQ</b>	automatic repeat request
<b>AS</b>	autonomous system
<b>ASCU</b>	agent-set control unit
<b>ASIC</b>	application-specific integrated circuit
<b>ASP</b>	ATM switch processor
<b>ATA</b>	Analog Telephone Adaptor
<b>ATF</b>	area to free
<b>ATM</b>	Asynchronous Transfer Mode
<b>AToM</b>	Any Transport over ATM
<b>AURP</b>	AppleTalk Update-Based Routing Protocol
<b>AutoRP</b>	Auto-Rendezvous Point
<b>AVL</b>	approved vendor list

**B**

<b>BAP</b>	Bandwidth Allocation Protocol
<b>BB</b>	broadband
<b>BBI</b>	begin bracket indicator
<b>BCS</b>	business critical solution
<b>BERT</b>	bit error rate tester
<b>BFE</b>	Blacker Front End
<b>BFR</b>	Bigger, Faster Router
<b>BGP</b>	Border Gateway Protocol
<b>BGPPA</b>	Border Gateway Protocol Policy Accounting
<b>BIC</b>	backplane interface card
<b>BIDI</b>	bidirectional bus
<b>BIND</b>	Berkeley Internet Name Domain
<b>BIP</b>	bit interleaved parity
<b>BIS</b>	Broadband Interface Shelf
<b>BLLI</b>	Broadband Low Layer Information
<b>BMA</b>	Buffer Management ASIC
<b>BOOM</b>	10BASE-T Ethernet LAN interface card
<b>BOOTP</b>	Bootstrap Protocol
<b>BPDU</b>	bridge protocol data unit
<b>BPE</b>	Broadband Processing Engine
<b>BPI</b>	baseline privacy interface
<b>BPVC</b>	Bridged Permanent Virtual Circuit
<b>BRI</b>	Basic Rate Interface
<b>BRF</b>	Bridge Relay Function
<b>BSC</b>	Binary Synchronous Communications
<b>BSS</b>	Business Support System
<b>BSTUN</b>	Block Serial Tunnel

<b>BTU</b>	British thermal unit
<b>BUS</b>	broadcast-and-unknown server

**C**

<b>CA</b>	certification authority
<b>CAC</b>	Connection Admission Control
<b>CAIM</b>	Compression Advanced Interface Module
<b>CAM</b>	content-addressable memory
<b>CAMR</b>	Cisco Access Metro Router
<b>CAR</b>	Committed Access Rate
<b>CAS</b>	channel-associated signaling
<b>CASA</b>	Cisco Appliance and Services Architecture
<b>CBAC</b>	Context-Based Access Control
<b>CBC</b>	Cell Bus Controller
<b>CBI</b>	Cell Bus Interface
<b>CBus</b>	CiscoBus
<b>CBWFQ</b>	Class Based Weighted Fair Queueing
<b>CBV'</b>	compressed bit vector
<b>CCA</b>	Common Configuration Architecture
<b>CCAPI</b>	call control API
<b>CCB</b>	call control block
<b>CCB</b>	configuration control block
<b>CCO</b>	Cisco Connection Online
<b>CCW</b>	channel command word
<b>CDI</b>	Common Driver Interface
<b>CDL</b>	Converged Data Link
<b>CDM</b>	cable data modem
<b>CDP</b>	Cisco Discovery Protocol

<b>CDR</b>	clock and data recovery
<b>CE</b>	certificate enrollment
<b>CEB</b>	Common EMS Base
<b>CEBI</b>	conditional end bracket indicator
<b>CEF</b>	Cisco Express Forwarding
<b>CERF</b>	Cache Error Recovery Function
<b>CES</b>	circuit emulation service
<b>CET</b>	Cisco Encryption Technology
<b>CF</b>	checkpointing facility
<b>CFI</b>	Common Flash Interface
<b>CGI</b>	common gateway interface
<b>CGMP</b>	Cisco Group Management Protocol
<b>CGX</b>	CryptoGraphics eXtensions
<b>CHAP</b>	Challenge Handshake Authentication Protocol
<b>CHOCx</b>	channelized OCx to DS1 line card
<b>CI</b>	connection identifier
<b>CICS</b>	Customer Information Control System
<b>CIP</b>	Channel Interface Processor
<b>CIP2</b>	Enhanced Channel Interface Processor
<b>CIR</b>	committed information rate
<b>CIS</b>	Card Information Services
<b>CIU</b>	Communication Interface Unit
<b>CLAW</b>	Common Link Access for Workstations
<b>CLI</b>	command-line interface
<b>CLNS</b>	Connectionless Network Service
<b>CLS</b>	Cisco link services
<b>CLSI</b>	Cisco link services interface
<b>CMCC</b>	Cisco Mainframe Channel Connection
<b>CMD</b>	command

<b>CMNS</b>	Connection Mode Network Service
<b>CMPC</b>	Cisco Multipath Channel
<b>CMTS</b>	cable modem termination system
<b>CNR</b>	Cisco Network Registrar
<b>CNOS</b>	change number of sessions
<b>CNS</b>	Cisco Networking Services
<b>COAPS</b>	Count of APS switchovers
<b>codec</b>	coder-decoder
<b>CoS</b>	class of service
<b>CoSQ</b>	Class of Service Queues
<b>COT</b>	continuity testing
<b>CP</b>	control point
<b>CPA</b>	Channel Port Adapter
<b>CPE</b>	customer premises equipment
<b>CPI</b>	common part indicator
<b>CPI-C</b>	common programming interface for communications
<b>CPM</b>	Combination Port Module
<b>CRC</b>	cyclic redundancy check
<b>CRF</b>	Concentrator Relay Function
<b>CRL</b>	certificate revocation list
<b>CRV</b>	call reference value
<b>CSA</b>	compression service adapter
<b>CSAR</b>	Cisco Cell Segmentation and Reassembly
<b>CSC</b>	clock switch card
<b>CSG</b>	Content Services Gateway
<b>CSI</b>	called subscriber identification
<b>CSM</b>	call switching mode
<b>CSM</b>	call switching module
<b>CSNA</b>	Cisco SNA

<b>CSU</b>	channel service unit
<b>CTC</b>	Cisco Transport Controller
<b>CTRC</b>	Cisco Transaction Connection
<b>CTS</b>	Clear To Send
<b>CUP</b>	control unit port
<b>CV</b>	Cisco View
<b>CWAN</b>	Constellation WAN
<b>CWRSU</b>	Clarity Wireless Radio Subscriber Unit
<b>CWTLC</b>	Constellation Wan Toaster Line Card
<b>CyBus</b>	Cisco Extended Bus

**D**

<b>DAE</b>	data aggregator end
<b>DB</b>	database
<b>DBus</b>	diagnostic bus
<b>DC</b>	direct-connect
<b>DC</b>	direct current
<b>DCD</b>	data carrier detect
<b>DCE</b>	data communications equipment
<b>dCEF</b>	distributed Cisco Express Forwarding
<b>DDR</b>	dial-on-demand routing
<b>DDSM</b>	Digital Data Services Manager
<b>DFC</b>	dial feature card
<b>DFP</b>	Dynamic Feedback Protocol
<b>DFRAC</b>	Dual Frammer and RAC
<b>DHCP</b>	Dynamic Host Configuration Protocol
<b>DLC</b>	data-link connection
<b>DLC</b>	data-link control

<b>DLCI</b>	data-link connection identifier
<b>dLFI</b>	Distributed Link Fragmentation and Interleaving
<b>dLFloATM</b>	Distributed Link Fragmentation and Interleaving over ATM
<b>dLFloFR</b>	Distributed Link Fragmentation and Interleaving over Frame Relay
<b>DLR</b>	designated local retransmitter
<b>DLSw</b>	data-link switching
<b>DLU</b>	dependent logical unit
<b>DLU</b>	destination logical unit
<b>DLU</b>	dynamic logical unit
<b>DLUR</b>	dependent logical unit requester
<b>DLUS</b>	dependent logical unit server
<b>DM</b>	Diagnostic Monitor
<b>DM</b>	disconnect mode
<b>DMA</b>	direct memory access
<b>DMAC</b>	destination MAC
<b>DML</b>	distributed multilink
<b>DMLP</b>	Distributed Multilink Point-to-Point Protocol
<b>DMTDSL</b>	digital/discrete multitone digital subscriber line
<b>DNIS</b>	dialed number identification service
<b>DNS</b>	Domain Name Server
<b>DNS</b>	Domain Name Service
<b>DNS</b>	Domain Name System
<b>DOCSIS</b>	Data-over-Cable Service Interface Specifications
<b>DOI</b>	domain of interpretation
<b>DDOS</b>	distributed denial of service
<b>DOS</b>	denial of service
<b>DPRAM</b>	dual-port RAM
<b>DR</b>	multicast designated router
<b>DR</b>	dynamic replenishment

<b>DRAM</b>	dynamic RAM
<b>DRDA</b>	Distributed Relational Database Architecture
<b>DRiP</b>	Duplicate Ring Protocol
<b>DRP</b>	Director Response Protocol
<b>DS</b>	dial shelf
<b>DS0</b>	digital service zero
<b>DSA</b>	delayed stop accounting
<b>DSC</b>	dial shelf control
<b>DSC</b>	dial shelf controller
<b>DSCP</b>	differentiated service code pointer
<b>DSI</b>	dial shelf interconnect
<b>DSI</b>	dial shelf interface
<b>DSIP</b>	Dial Shelf Interconnect Protocol
<b>DSL</b>	digital subscriber line
<b>DSLAM</b>	digital subscriber line ATM multiplexer
<b>DSM</b>	DSP Stream Manager
<b>DSP</b>	digital signal processor
<b>DSP</b>	Domain Specific Part
<b>DSPFARM</b>	digital signal processor farm
<b>DSPLIB</b>	digital signal processor library
<b>DSPM</b>	digital signal processor module
<b>DSPRM</b>	Digital Signal Processor Resource Manager
<b>DSPU</b>	downstream physical unit
<b>DSR</b>	data set ready
<b>DSU</b>	data service unit
<b>DSU</b>	digital service unit
<b>DTE</b>	data terminal equipment
<b>DTMF</b>	dual tone multi-frequency
<b>DTP</b>	Dynamic Trunking Protocol

<b>DTR</b>	data terminal ready
<b>DVMRP</b>	Distance Vector Multicast Routing Protocol

**E**

<b>E1T1</b>	E1 line or T1 line
<b>EADI</b>	Extended Availability Drop and Insert
<b>EAIM</b>	Encryption AIM
<b>EARL</b>	enhanced address recognition logic
<b>EC</b>	EtherChannel
<b>ECA</b>	ESCON Channel Adapter
<b>ECC</b>	error-correcting code
<b>ECC</b>	Error-Check Code
<b>ECC</b>	error checking and correction
<b>ECM</b>	Extensible Call Model
<b>ECPA</b>	Escon Channel Port Adapter
<b>ECPA4</b>	Enhanced Escon Channel Port Adapter
<b>EEPROM</b>	electronically erasable programmable read-only memory
<b>EGP</b>	exterior gateway protocol
<b>EHSA</b>	enhanced high system availability
<b>EID</b>	endpoint identifier
<b>EIGRP</b>	Enhanced Interior Gateway Routing Protocol
<b>ELAN</b>	emulated LAN
<b>EM</b>	encryption module
<b>ENCP</b>	end node control point
<b>ENUM</b>	enumeration
<b>ENVM</b>	Constellation WAN Environmental Monitor
<b>EOBC</b>	Ethernet Out-of-Band Channel
<b>EOC</b>	embedded operations channel

<b>EOF</b>	end-of-frame
<b>EOIR</b>	enhanced online insertion and removal
<b>EoMPLS</b>	Ethernet over MPLS
<b>EP</b>	encryption processing
<b>EP</b>	endpoint
<b>ESCON</b>	Enterprise System Connection
<b>ESMP</b>	Even Simpler Management Protocol
<b>ESP</b>	Extended Services Processor
<b>ESP</b>	Extended Services Platform
<b>ESWILP</b>	Ethernet Switch with Inline Power
<b>ET</b>	exchange termination
<b>ETM</b>	Enhanced Timing Module
<b>EXAR</b>	Chip manufacturer
<b>EzVPN</b>	Cisco Easy Virtual Private Networks

**F**

<b>FAQ</b>	frequently asked question
<b>FB</b>	feature board
<b>FBB</b>	fast back-to-back
<b>FBB</b>	from backplane buffer
<b>FCFS</b>	First Come First Served
<b>FCIT</b>	Fiber Channel Idle Time
<b>FC-PFQ</b>	feature card per-flow queueing
<b>FCPA</b>	Fibre Channel Port Adapter
<b>FCS</b>	frame check sequence
<b>FDDI</b>	Fiber Distributed Data Interface
<b>FDL</b>	Facility Data Link
<b>FDM</b>	frequency-division multiplexing

<b>FE</b>	Fast Ethernet
<b>FEC</b>	Fast EtherChannel
<b>FECPM</b>	Fast Ethernet Combo Port Module
<b>FI</b>	format indicator
<b>FIA</b>	Fabric Interface ASIC
<b>FIB</b>	forwarding information base
<b>FIFO</b>	first-in, first-out
<b>FIPC</b>	Fast Interprocess Communication
<b>FIR</b>	Finite Impulse Response
<b>FM</b>	fault monitoring
<b>FMSP</b>	Fax Media Services Provider
<b>FP</b>	FastPacket
<b>FP</b>	Forwarding Path
<b>FP</b>	Forwarding Processor
<b>FPFE</b>	Front Panel Fast Ethernet
<b>FPGA</b>	field-programmable gate array
<b>FQDN</b>	fully qualified domain name
<b>FQPCID</b>	fully qualified procedure correlation identifier
<b>FREEDM</b>	Frame EnginE and Data link Manager
<b>FRMR</b>	Frame Reject
<b>FRU</b>	field-replaceable unit
<b>FSIP</b>	Fast Serial Interface Processor
<b>FSM</b>	finite state machine
<b>FTBB</b>	from/to backplane buffer
<b>FTP</b>	File Transfer Protocol
<b>FXS</b>	Foreign Exchange Station

**G**

<b>G.SHDSL</b>	global single-pair high-bit-rate DSL
<b>GBIC</b>	Gigabit Interface Converter
<b>GC</b>	global configuration
<b>GDS</b>	general data stream
<b>GE</b>	Gigabit Ethernet
<b>GEIP</b>	Gigabit Ethernet Interface Processor
<b>GEMAC</b>	Gigabit Ethernet Media Access Control
<b>GEWAN</b>	Gigabit Ethernet WAN
<b>GGSN</b>	gateway GPRS support node
<b>GIGMAC</b>	Gigabit Media Access Controller
<b>GKTMP</b>	Gatekeeper Transaction Message Protocol
<b>GLBP</b>	Gateway Load Balancing Protocol
<b>GLC</b>	gigabit line card
<b>GMAC</b>	Gigabit Ethernet media access controller
<b>GMPLS</b>	Generalized Multiprotocol Label Switching
<b>GPRS</b>	general packet radio service
<b>GRP</b>	gigabit route processor
<b>GSN</b>	GPRS support node
<b>GSR</b>	Internet router
<b>GTF</b>	Generalized Trace Facility
<b>GTP</b>	GPRS tunneling protocol
<b>GULF</b>	GULF-2488 ASIC

**H**

<b>HA</b>	High Availability
<b>HA</b>	Home Agent

<b>HAL</b>	Halcyon
<b>HDA</b>	High Density Analog
<b>HDLC</b>	High-Level Data Link Control
<b>HDV</b>	High Density Voice
<b>HDX</b>	half-duplex
<b>HEC</b>	header error control
<b>HGW</b>	home gateway
<b>Hifn</b>	Hi/fn Inc.
<b>HINFO</b>	host information
<b>HM</b>	Health Monitor
<b>HMS</b>	Home Media Server
<b>HPR</b>	High-Performance Routing
<b>HSA</b>	high system availability
<b>HSRP</b>	Hot Standby Router Protocol
<b>HSSI</b>	High Speed Serial Interface
<b>HW</b>	hardware
<b>HWAF</b>	Hardware Address Filtering
<b>HWIDB</b>	hardware interface descriptor block

**I**

<b>I2C</b>	Inter-IC bus protocol
<b>IBGP</b>	internal BGP
<b>IBL</b>	Input Buffer Logic
<b>IBOC</b>	in-band bit-oriented code
<b>ICC</b>	Inter Card Communication
<b>ICC</b>	Interface Controller Card
<b>ICMP</b>	Internet Control Message Protocol
<b>ICPIF</b>	Calculated Planning Impairment Factor

<b>ICS</b>	Integrated Communication System
<b>ID</b>	identification
<b>IDAP</b>	Internet Data Access Presentation
<b>IDB</b>	interface descriptor block
<b>IDNLD</b>	image down load
<b>IDON</b>	initialization done
<b>IDPROM</b>	Identification PROM
<b>IDS</b>	Internal Data Services
<b>IDT</b>	Integrated Digital Terminal
<b>IDU</b>	indoor unit
<b>IE</b>	information element
<b>IEEE</b>	Institute of Electrical and Electronics Engineers
<b>IETF</b>	Internet Engineering Task Force
<b>IF</b>	Interface
<b>IF</b>	intermediate frequency
<b>IGMP</b>	Internet Group Management Protocol
<b>IGRP</b>	Interior Gateway Routing Protocol
<b>IGX</b>	Cisco IGX 8400 Series of Switches
<b>IIF</b>	Input interface
<b>IKE</b>	Internet Key Exchange
<b>ILMI</b>	Integrated Local Management Interface
<b>IMA</b>	inverse multiplexing over ATM
<b>IMSI</b>	international mobile subscriber identity
<b>IP</b>	Internet Protocol
<b>IPC</b>	interprocess communication
<b>IPDC</b>	Internet Protocol device control
<b>IPDLC</b>	IP data link connection
<b>IFE</b>	Inter-PRE Ethernet
<b>IPG</b>	Inter Packet Gap

<b>IPHC</b>	IP TCP header compression
<b>IPM</b>	Cisco Internetwork Performance Monitor
<b>IPPCP</b>	IP Payload Compression Protocol
<b>IPSec</b>	IP Security
<b>IPv6</b>	IP version 6
<b>IPX</b>	Internetwork Packet eXchange
<b>ISA</b>	Integrated Services Adapter
<b>ISAKMP</b>	Internet Security Association and Key Management Protocol
<b>ISDN</b>	Integrated Services Digital Network
<b>ISE</b>	Internet Services Engine
<b>IS-IS</b>	Intermediate System-to-Intermediate System
<b>ISL</b>	Inter-Switch Link
<b>ISR</b>	intermediate session routing
<b>ISRHOG</b>	Interrupt Service Routine HOG
<b>IST</b>	Internal Spanning Tree
<b>IUA</b>	ISDN User Adaption Layer
<b>IVR</b>	interactive voice response

**L**

<b>L2</b>	Layer 2
<b>L3</b>	Layer 3
<b>LAC</b>	L2TP access concentrator
<b>LACP</b>	Link Aggregate Control Protocol
<b>LAIS</b>	SONET Line level Alarm Indication Signal
<b>LANCE</b>	Local Area Network Controller Ethernet
<b>LANE</b>	LAN Emulation
<b>LAPB</b>	Link Access Procedure, Balanced
<b>LAT</b>	local-area transport

<b>LC</b>	line card
<b>LCATM</b>	Label controlled ATM
<b>LCB</b>	Line Control Block
<b>LCC</b>	Linecard Configuration Coordinator
<b>LCCB</b>	Linecard Control Block
<b>LCD</b>	liquid crystal display
<b>LCI</b>	local channel identifier
<b>LCN</b>	logical channel number
<b>LDLC</b>	LocalDirector link control
<b>LDN</b>	local directory number
<b>LDP</b>	Label Distribution Protocol
<b>LEC</b>	LANE Client
<b>LECS</b>	LANE Configuration Server
<b>LED</b>	light-emitting diode
<b>LEN</b>	low-entry networking
<b>LES</b>	LANE Server
<b>LFSID</b>	local-form session identifier
<b>LIR</b>	link incident report
<b>LIU</b>	line interface unit
<b>LLC</b>	logical link control
<b>LLC2</b>	Logical Link Control, type 2
<b>LLD</b>	low level design
<b>LMI</b>	Local Management Interface
<b>LMP</b>	Link Management Protocol
<b>LNM</b>	LAN Network Manager
<b>LNS</b>	L2TP network server
<b>LOF</b>	loss of frame
<b>LOS</b>	loss of signal
<b>LPD</b>	line printer daemon

<b>LRC</b>	line card redundancy controller
<b>LRJ</b>	location rejection
<b>LRQ</b>	location request
<b>LS</b>	LightStream
<b>LSA</b>	link-state advertisement
<b>LSC</b>	label switch controller
<b>LSIPC</b>	LightStream interprocess communication
<b>LSP</b>	label switch path
<b>LSP</b>	link-state packet
<b>LSR</b>	label switch router
<b>LSS</b>	LightStream switching
<b>LU</b>	logical unit
<b>LU6.2</b>	logical unit type 6.2
<b>LYRA</b>	Constellation+ Advanced Forwarding Engine Layer2

## M

<b>MAC</b>	Media Access Control
<b>MAR</b>	Midrange Access Routers
<b>MARS</b>	Multicast Address Resolution Server
<b>MATM</b>	MAC Address Table Manager
<b>MAU</b>	media attachment unit
<b>MAX</b>	maximum
<b>MBRI</b>	Multi-BRI
<b>MBRI</b>	Multiport Basic Rate Interface
<b>MBus</b>	maintenance bus
<b>MCNS</b>	Multimedia Cable Network System Partners, Ltd.
<b>MCOM</b>	Microcom carrier card
<b>MD5</b>	message digest 5

<b>MDB</b>	Multicast Descriptor Block
<b>MDL</b>	maintenance data link
<b>MDS</b>	multicast distributed switching
<b>MDSS</b>	Multicast Distributed Shortcut Switching
<b>MDT</b>	multicast distribution tree
<b>MEMD</b>	memory device
<b>MFD</b>	Multicast Fast Drop
<b>MFE</b>	Multi-port Fast Ethernet
<b>MFIB</b>	Multicast Forwarding Information Base
<b>MGCP</b>	Media Gateway Control Protocol
<b>MHA</b>	Marvel high availability
<b>MIB</b>	Management Information Base
<b>MIB/SMT</b>	Management Information Base/Station Management
<b>MIC</b>	media interface connector
<b>MICA</b>	Modem ISDN channel aggregation
<b>MID</b>	Multiplex ID
<b>MIDB</b>	multicast interface data block
<b>MII</b>	media-independent interface
<b>MLD</b>	Multicast Listener Discovery
<b>MLS</b>	multilayer switching
<b>MLP</b>	Multilink Point-to-Point Protocol
<b>MLPPP</b>	Multilink Point-to-Point Protocol
<b>MLS</b>	multilayer switching
<b>MLSM</b>	multi-layer switching for multicast
<b>MLTG</b>	multilink trunk group
<b>MMC</b>	Management Memory Controller
<b>MMI</b>	Modem Management Interface
<b>MMLS</b>	multicast multilayer switching
<b>MNCNS</b>	Multimedia Cable Network System Partners, Ltd.

<b>MNP4</b>	Microcom Networking Protocol 4
<b>MP</b>	Multilink Protocol
<b>MPC</b>	MultiPath Channel
<b>MPC</b>	Multiprotocol-over-ATM client
<b>MPLS</b>	Multiprotocol Label Switching
<b>MPOA</b>	Multiprotocol over ATM
<b>MPS</b>	Multiprotocol-over-ATM server
<b>MQC</b>	Modular Quality of Service (QoS) command line interface (CLI)
<b>MRIB</b>	Multicast Routing Information Base
<b>MRP</b>	Multiservice Routing Processor
<b>MPT</b>	Ministry of Posts and Telecommunications
<b>MS</b>	Management Services
<b>MS</b>	mobile subscriber
<b>MSDP</b>	Multicast Source Discovery Protocol
<b>MSFC</b>	Multilayer Switch Feature Card
<b>MSP</b>	Media Service Provider
<b>MSR</b>	Multiservice Switch Router
<b>MSS</b>	maximum segment size
<b>MST</b>	Multiple Spanning-Tree Protocol
<b>MSTOO</b>	multiple spanning tree root
<b>MTU</b>	maximum transmission unit
<b>MVIP</b>	Versatile Interface Processor
<b>Mx</b>	Mueslix

**N**

<b>NAK</b>	negative acknowledgment
<b>NAS</b>	network access server
<b>NAT</b>	Network Address Translation

<b>NBAR</b>	network-based application recognition
<b>NBP</b>	Name Binding Protocol
<b>NCE</b>	network connection endpoint
<b>NCP</b>	Network Control Program
<b>NCP</b>	Network Control Protocol
<b>NEAT</b>	E1 and T1 processor
<b>NFAS</b>	Non Facility Associated Signaling
<b>NHDR</b>	Network Layer Header
<b>NHRP</b>	Next Hop Resolution Protocol
<b>NHS</b>	Next Hop Server
<b>NIM</b>	network interface module
<b>NIP</b>	Nitro Interconnect Protocol
<b>NLP</b>	network-layer packet
<b>NLSP</b>	NetWare Link Services Protocol
<b>NM</b>	network module
<b>NME</b>	Network Management Ethernet
<b>NMI</b>	nonmaskable interrupt
<b>NMP</b>	Network Management Processor
<b>NMS</b>	network management system
<b>NMVT</b>	network management vector transport
<b>NNI</b>	Network-to-Network Interface
<b>NNS</b>	network node server
<b>NP</b>	network processor
<b>NP</b>	NextPort
<b>NPE</b>	network processing engine
<b>NRM</b>	normal response mode
<b>NRP</b>	Network Routing Processor
<b>NRP</b>	node route processor
<b>NSAP</b>	network service access point

<b>NSE</b>	network services engine
<b>NSF</b>	Non-stop forwarding
<b>NSP</b>	Network Switch Processor
<b>NSP</b>	node switch processor
<b>NTP</b>	Network Time Protocol
<b>NVRAM</b>	nonvolatile RAM
<b>NVS</b>	nonvolatile storage
<b>NXT</b>	next state

**O**

<b>O-UNI</b>	Optical User Network Interface
<b>OAM</b>	Operation, Administration, and Maintenance
<b>OBL</b>	Output Buffer Logic
<b>ODU</b>	outdoor unit
<b>OFC</b>	open fiber control
<b>OIF</b>	Output interface
<b>OIR</b>	online insertion and removal
<b>ONS</b>	Optical Networking Systems
<b>OOBP</b>	out-of-band port
<b>OOS</b>	out of service
<b>OQs</b>	output queues
<b>ORF</b>	outbound route filter
<b>OSC</b>	Optical Supervisory Channel
<b>OSCP</b>	Optical Supervisory Channel Protocol
<b>OSM</b>	Optical Services Module
<b>OSP</b>	Open Settlements Protocol
<b>OSPF</b>	Open Shortest Path First

**OSS** Operations Support System

**OU** organizational unit

## **P**

**P2IPC** Popeye II Inter-processor Communicator

**PA** port adapter

**PAD** packet assembler/disassembler

**PAgP** Port Aggregation Protocol

**PAM** port adapter module card

**PAM** pulse amplitude modulation

**PAP** Password Authentication Protocol

**PASCB** port adapter system control block

**PBP** packet-by-packet

**PC** program counter

**PCA** Parallel Channel Adapter

**PCI** protocol control information

**PCID** procedure correlation identifier

**PCM** pulse code modulation

**PCMCIA** Personal Computer Memory Card International Association

**PCPA** Parallel Channel Port Adapter

**PCR** peak cell rate

**PDP** policy decision point

**PDU** protocol data unit

**PEM** power entry module

**PF** protocol filtering

**PGM** Pragmatic General Multicast

**PGP** pretty good privacy

**PHY** physical layer interface

<b>PIC</b>	Peripheral Interface Controller
<b>PIC</b>	point in call
<b>PIE</b>	protocol information element
<b>PIF</b>	Packet Input FIFO
<b>PIM</b>	Protocol Independent Multicast
<b>PIMv2</b>	Protocol Independent Multicast version 2
<b>PIU</b>	PCM Interface Unit
<b>PKCS</b>	Public-Key Cryptography Standards
<b>PKI</b>	public-key infrastructure
<b>PLD</b>	programmable logic device
<b>PLIM</b>	Physical Layer Interface Module
<b>PLU</b>	primary logical unit
<b>PLX</b>	PCI to local bus bridge vendor
<b>PM</b>	port management
<b>PMA</b>	Packet Memory Access
<b>PMC</b>	PCI Mezzanine Card
<b>PMON</b>	Performance Monitor
<b>PNNI</b>	Private Network-Network Interface
<b>PoS</b>	Packet over SONET
<b>PoS</b>	Packet over SONET/SDH
<b>POSIO</b>	Packet over SONET input output
<b>POST</b>	power-on self test
<b>POT1E1</b>	potent T1/E1
<b>POTS</b>	plain old telephone service
<b>PPC</b>	primary point code
<b>PPP</b>	Point-to-Point Protocol
<b>PRE</b>	Performance Routing Engine
<b>PRI</b>	Primary Rate Interface
<b>PROM</b>	programmable read-only memory

<b>PSA</b>	Packet Switching ASIC
<b>PTB</b>	Peer Transaction Bus
<b>PU</b>	physical unit
<b>PU 2.0</b>	Physical Unit type 2.0
<b>PU 2.1</b>	Physical Unit type 2.1
<b>PVC</b>	permanent virtual circuit
<b>PVC</b>	permanent virtual connection
<b>PVDM</b>	Packet Voice DSP Module
<b>PVID</b>	Port VLAN ID
<b>PVP</b>	permanent virtual path
<b>PVST+</b>	Per-VLAN Spanning Tree
<b>PXF</b>	Parallel eXpress Forwarding
<b>PXM</b>	Processor Switching Module

## Q

<b>QA</b>	queue and accumulator
<b>QEM</b>	QEM driver
<b>QLLC</b>	Qualified Logical Link Control
<b>QM</b>	QoS manager
<b>QMAC</b>	Quad Token Ring Media Access Controller ASIC
<b>QMC</b>	QUICC Multi-Channel Controller
<b>QoS</b>	quality of service
<b>QUICC</b>	Quad Integrated Communications Controller

## R

<b>RA</b>	registration authority
<b>RAC</b>	Resource Availability Confirm
<b>RAC</b>	Ring Access Controller

<b>RADIUS</b>	Remote Authentication Dial-In User Service
<b>RARP</b>	Reverse Address Resolution Protocol
<b>RAS</b>	Registration, Admission, and Status
<b>RAS</b>	remote access server
<b>RBCP</b>	Router Blade Configuration Protocol
<b>RBD</b>	receive buffer descriptor
<b>RBS</b>	Robbed-Bit Signaling
<b>RCP</b>	remote copy protocol
<b>RCMD</b>	remote command
<b>RDB</b>	relational database
<b>REQACTPU</b>	request to activate a physical unit
<b>REQDACTPU</b>	request to deactivate a physical unit
<b>REQ(D)ACTPU (RSP)</b>	Route Switch Processor request to activate or deactivate a physical unit
<b>REXEC</b>	remote execution
<b>RF</b>	radio frequency
<b>RF</b>	Redundancy Facility
<b>RIP</b>	Routing Information Protocol
<b>RISC</b>	reduced instruction set computing
<b>RJE</b>	remote job entry
<b>RLM</b>	Redundant Link Manager
<b>RMON</b>	Remote Network Monitoring
<b>RNR</b>	receive not ready
<b>ROM</b>	read-only memory
<b>ROMmon</b>	ROM monitor
<b>RP</b>	Route Processor
<b>RPA</b>	Resource Pool Allocation
<b>RPC</b>	Remote Procedure Call
<b>RPF</b>	Reverse Path Forwarding

<b>RPM</b>	Route Processor Module
<b>RPM</b>	Resource Pool Management
<b>RPM-XF</b>	Route Processor Module, express forwarding
<b>RPR</b>	Route Processor Redundancy
<b>RPS</b>	Ring Parameter Server
<b>RR</b>	receive ready
<b>RS</b>	router shelf
<b>RS-232</b>	EIA/TIA-232
<b>RSA</b>	Rivest, Shamir, and Adelman (a public-key cryptographic system)
<b>RSC</b>	route switch controller
<b>RSCPB</b>	RSC front panel push button
<b>RSCV</b>	Route Selection Control Vector
<b>rsh</b>	remote shell
<b>RSM</b>	Route Switch Module
<b>RSP</b>	Route Switch Processor
<b>RSPAN</b>	Remote Switched Port Analyzer
<b>RSRB</b>	remote source-route bridging
<b>RSVP</b>	Resource Reservation Protocol
<b>RTAL</b>	Receive Telecombus Aligner/Interface
<b>RTM</b>	Real Time Monitor
<b>RTP</b>	Rapid Transport Protocol
<b>RTP</b>	Real-Time Transport Protocol
<b>RTR</b>	response time reporter
<b>RTS</b>	Request To Send
<b>RTT</b>	round-trip time
<b>RTTMON</b>	Round Trip Time Monitor
<b>RU</b>	request/response unit
<b>RUDP</b>	Reliable User Data Protocol

<b>Rx</b>	Receive
<b>RXP</b>	Resonate Exchange Protocol

**S**

<b>SA</b>	security association
<b>SA</b>	Source-Active
<b>SA</b>	Service Assurance
<b>SADB</b>	security association database
<b>SAFI</b>	Subsequent Address Family Identifier
<b>SAP</b>	service access point
<b>SAR</b>	segmentation and reassembly
<b>SBE</b>	single-bit errors
<b>SCB</b>	storage control blocks
<b>SCB</b>	system control board
<b>SCC</b>	Signaling Connection Control
<b>SCCP</b>	Signaling Connection Control Part
<b>SCM</b>	Service Connection Manager
<b>SCP</b>	Service Control Point
<b>SCP</b>	Switch-Module Configuration Protocol
<b>SCP</b>	System Control Protocol
<b>SDCC</b>	Serial Data Communication Channel
<b>SDH</b>	synchronous digital hierarchy
<b>SDLC</b>	Synchronous Data Link Control
<b>SDLLC</b>	Synchronous Data Logical Link Control
<b>SDM</b>	Security Device Manager
<b>SDP</b>	Session Description Protocol
<b>SDP</b>	Shelf Discovery Protocol
<b>SDRAM</b>	synchronous DRAM

<b>SDT</b>	Start Data Transfer
<b>SEF</b>	severely errored frames
<b>SEL</b>	selection
<b>SERDES</b>	Serializer-Deserializer
<b>SFC</b>	switch fabric card
<b>SFP</b>	Small Form Factor Pluggable
<b>SGBP</b>	Stack Group Bidding Protocol
<b>SGCP</b>	Simple Gateway Control Protocol
<b>SGI</b>	Silicon Graphics Inc.
<b>SGSN</b>	Serving GPRS Support Node
<b>SiByte</b>	Trademark name of the Broadcom Corporation for their embedded processor
<b>SID</b>	Service ID
<b>SIG</b>	signal
<b>SIMM</b>	single in-line memory module
<b>SIP</b>	Session Initiation Protocol
<b>SKY</b>	SONET OC-48 Framer (4402)
<b>SLARP</b>	Serial Line Address Resolution Protocol
<b>SLB</b>	Server Load Balancing
<b>SLC</b>	signaling link code
<b>SLCI</b>	Signaling Link Code Interface
<b>SLIC</b>	Subscriber Line Interface Circuit
<b>SLIP</b>	Serial Line Internet Protocol
<b>SLU</b>	secondary logical unit
<b>SM</b>	state machine
<b>SMDS</b>	Switched Multimegabit Data Service
<b>SMI</b>	single mode intermediate
<b>SMRP</b>	Simple Multicast Routing Protocol
<b>SMTP</b>	Simple Mail Transfer Protocol
<b>SNA</b>	Systems Network Architecture

<b>SNASw</b>	SNA Switching Services
<b>SNMP</b>	Simple Network Management Protocol
<b>SNR</b>	signal-to-noise ratio
<b>SNRM</b>	Set Normal Response
<b>SO-DIMM</b>	Small Outline Dual In-line Memory Modules
<b>SOF</b>	start-of-frame
<b>SOP</b>	Second-Generation Packet-over-SONET
<b>SP</b>	Switch Processor
<b>SPAN</b>	Switched Port Analyzer
<b>SPD</b>	Security Policy Database
<b>SPE</b>	service processing element
<b>SPI</b>	security parameter index
<b>SPID</b>	service profile identifier
<b>SPM</b>	source path message
<b>SPMM</b>	SIMM DSP module
<b>SRA</b>	source routing accelerator
<b>SRAM</b>	static RAM
<b>SRC</b>	Switch Redundancy Controller
<b>SRCP</b>	Simple Resource Coordination Protocol
<b>SRDB</b>	source route relational database
<b>SRIC</b>	Sculptor Input Controller
<b>SRIF</b>	Sculptor Interface
<b>SROC</b>	Sculptor Output Controller
<b>SRP</b>	Server Redundancy Protocol
<b>SRP</b>	Spatial Reuse Protocol
<b>SRR</b>	Single Ring Recovery Protocol
<b>SS7</b>	signaling system 7
<b>SSCOP</b>	Service-Specific Connection-Oriented Protocol
<b>SSCP</b>	system services control points

<b>SSE</b>	silicon switching engine
<b>SSG</b>	Service Selection Gateway
<b>SSH</b>	Secure Shell
<b>SSI</b>	System Service Interface
<b>SSL</b>	Secure Socket Layer
<b>SSM</b>	Source Specific Multicast
<b>SSP</b>	Silicon Switch Processor
<b>SSP</b>	state synchronization protocol
<b>SSRAM</b>	synchronous static RAM
<b>SSRP</b>	Simple Server Redundancy Protocol
<b>SSS</b>	Subscriber Service Switching
<b>SSTP</b>	Shared Spanning-Tree Protocol
<b>STP</b>	Spanning-Tree Protocol
<b>STUN</b>	serial tunnel
<b>SU</b>	service unit
<b>SU</b>	signaling unit
<b>SVC</b>	switched virtual circuit
<b>SVI</b>	switched virtual interface
<b>SVIP</b>	Versatile Interface Processor 2
<b>SW56</b>	switched 56K
<b>SWIDB</b>	software for Interface Descriptor Block
<b>SYSMGT</b>	system management

**T**

<b>TAC</b>	Cisco Technical Assistance Center
<b>TACACS</b>	Terminal Access Controller Access Control System
<b>TBB</b>	to backplane buffer
<b>TBI</b>	Ten Bit Interface

<b>TBM</b>	Transmit Buffer Manager
<b>TCA</b>	telecommunications access method
<b>TCAM</b>	Ternary Content Addressable Memory
<b>TCB</b>	Transmission Control Block
<b>TCL</b>	Toolkit Command Language
<b>TCP</b>	Transmission Control Protocol
<b>TDM</b>	time-division multiplexing
<b>TDMC</b>	TDM circuit
<b>TDP</b>	Tag Distribution Protocol
<b>TDR</b>	time domain reflectometer
<b>TE</b>	terminal equipment
<b>TE</b>	tunnel equipment
<b>TED</b>	Tunnel Endpoint Discovery
<b>TEI</b>	terminal endpoint identifier
<b>TFIB</b>	Tag Forwarding Information Base
<b>TFTP</b>	Trivial File Transfer Protocol
<b>TG</b>	transmission group
<b>TIB</b>	Tag Information Base
<b>TIC</b>	Toaster Input Controller
<b>TID</b>	Terminal Identifier
<b>TIFF</b>	tagged image file format
<b>TLB</b>	translation look-aside buffer
<b>TLV</b>	type, length, value
<b>TMQ</b>	terminal port queueing
<b>ToS</b>	Type of Service
<b>TP</b>	Transport Protocol
<b>TR</b>	Token Ring
<b>TRANGE</b>	time-range
<b>TSC</b>	Tag Switch Controller

<b>TSCAM</b>	Traffic Shaping Carrier Access Module
<b>TSI</b>	transmitting subscriber information
<b>TSP</b>	tag-switched path
<b>TT</b>	tunnel service type
<b>TTAL</b>	Transmit Telecombuser Aligner/Interface
<b>TTL</b>	time to live
<b>TVC</b>	tag switched controlled virtual circuit
<b>TVC</b>	tag virtual circuits
<b>Tx</b>	transmit

## U

<b>UA</b>	unnumbered acknowledgement
<b>UART</b>	Universal Asynchronous Receiver/Transmitter
<b>UBR</b>	universal broadband routers
<b>UCB</b>	University of California, Berkeley
<b>Ucode</b>	Microcode
<b>UDLD</b>	UniDirectional Link Detection
<b>UDP</b>	User Datagram Protocol
<b>UPS</b>	uninterruptible power supply
<b>URL</b>	uniform resource locator
<b>URLF</b>	URL filtering
<b>URM</b>	Universal Router Module
<b>uRPF</b>	Unicast Reverse Path Forwarding

## V

<b>VACL</b>	VLAN access control list
<b>VAD</b>	voice activity detection
<b>VBR</b>	variable bit rate

<b>VBR-nRT</b>	variable bit rate—non-real time
<b>VC</b>	virtual circuit
<b>VCC</b>	virtual channel connection
<b>VCD</b>	virtual circuit descriptor
<b>VCCI</b>	Virtual Channel Common Index
<b>VCHAN</b>	virtual channel
<b>VCI</b>	virtual channel identifier [ <i>ATM only</i> ]
<b>VCN</b>	virtual circuit number
<b>VFC</b>	voice feature card
<b>VFC</b>	VoIP feature card
<b>VG</b>	voice gateway
<b>VIC</b>	voice interface card
<b>VIP</b>	Versatile Interface Processor
<b>VLAN</b>	virtual LAN
<b>VMAC</b>	Virtual MAC
<b>VMPS</b>	VLAN Membership Policy Server
<b>VMR</b>	value mask result
<b>VNM</b>	Voice Network Manager
<b>VoIP</b>	Voice over IP
<b>VP</b>	virtual path
<b>VPD</b>	voice packet driver
<b>VPDN</b>	Virtual Private Dialup Network
<b>VPI</b>	virtual path identifier
<b>VPN</b>	Virtual Private Network
<b>VPNv4</b>	Virtual Private Network version 4
<b>VQP</b>	VLAN Query Protocol
<b>VQPC</b>	VQP client
<b>VRF</b>	VPN Routing and Forwarding
<b>RRRP</b>	Virtual Router Redundancy Protocol

<b>VSI</b>	Virtual Switch Interface
<b>VSM</b>	Voice Service Manager
<b>VT</b>	virtual terminal
<b>VTAM</b>	virtual telecommunications access method
<b>VTMS</b>	Versatile Traffic Management and Shaping
<b>VTP</b>	VLAN Trunk Protocol
<b>VTSP</b>	voice telephony service provider
<b>VTT</b>	voltage termination
<b>VWIC</b>	Voice/WAN interface card

## W

<b>WCCP</b>	Web Cache Communication Protocol
<b>WCS</b>	writable control store
<b>WIC</b>	WAN interface card
<b>WLM</b>	Workload Manager
<b>WRED</b>	Weighted Random Early Detection
<b>WWW</b>	World Wide Web

## X

<b>XCA</b>	external communication adapter
<b>XCVR</b>	transceiver
<b>XDR</b>	eXternal Data Representation
<b>xDSL</b>	DSL technology
<b>XF</b>	express forwarding
<b>XID</b>	exchange identification
<b>XNS</b>	Xerox Network Systems
<b>XOT</b>	X.25-over-TCP

**XPIF** Gigabit Ethernet port interface chip

**XTagATM** extended tag ATM