



GLOSSARY

Numbers

3R retime, reshape, and regenerate

A

AC alternating current

ACO alarm cutoff

ADA Add/Drop Amplifier module

AIC Alarm Interface Controller card

AID access identifier

AIP Alarm Interface Panel

AIS alarm indication signal

AIS-L line alarm indication signal

AIS-P path alarm indication signal

AIU Alarm Interface Unit module

AMI alternate mark inversion

ANS automatic node setup

ANSI American National Standards Institute

API Application Programming Interface

APS automatic protection switching

ARP Address Resolution Protocol

ASCII American Standard Code for Information Interchange

ASIC application-specific integrated circuit

ATM asynchronous transfer mode

AWG arrayed waveguide grating

AXSM	ATM switch service module for the MGX 8850 (double height card)
AXSM-E	Enhanced AXSM (double height card)

B

B8ZS	binary 8-zero substitution
BAT	Battery Management module
BBA	Blue-band Booster Amplifier module
BBE	background block errors
BCS-ELH	Band Combiner and Splitter–Extended Long Haul module
BCS-LH	Band Combiner and Splitter–Long Haul module
BER	bit error rate
BIOS	basic input/output system
BIP	bit interleaved parity
BITS	building integrated timing supply
BLSR	bidirectional line switch ring
BPV	bipolar violation
BRI	Basic Rate Interface
BW	bandwidth

C

CBUS	control bus
CCAT	contiguous concatenation
CDE	Common Desktop Environment
CHAP	Challenge Handshake Authentication Protocol
CIR	committed information rate
CIT	craft interface terminal
Cisco IOS	Cisco Internetwork Operating System
Cisco MGM	Cisco Media Gateway Manager

CLEI	Common Language Equipment Identifier
CLI	command-line interface
CLIP	Client Layer Interface Port
CM	configuration management
CMP	Control and Monitoring Processor module
CMP-W	Control and Monitoring Processor module
CMP-W-2E	Control and Monitoring Processor module–2 Ethernet
CO	central office
CORBA	Common Object Request Broker Architecture
CPBIT	C-bit parity bit
CPU	central processing unit
CRS-1	Cisco Carrier Router System 1
CSMA/CD	carrier sense multiple access collision detect
CSU	channel service unit
CSV	comma-separated values
CTP	connection termination point
CV	coding violation
CV-L	line coding violation
CV-P	path coding violation
CVP-P	coding violation path
CV-S	section coding violation
CVS-S	section coding violation
CV-V	coding violation VT layer

D

dBm	decibel referred to 1 milliwatt (dBm)
DC	direct current
DCC	data communications channel

DCE	data circuit-terminating equipment
DCN	data communications network
DCS	Digital Cross-connect System
DCU	dispersion compensation unit
DDS	digital data service
DHCP	Dynamic Host Configuration Protocol
DLC	digital loop carrier
DOS	disk operating system
DRI	dual-ring interconnect
DS1	digital service 1
DS-1	digital signal level 1
DS3-12	Digital Signal Level Three (12 ports) card
DS3N-12	Digital Signal Level Three (N-12 ports) card
DSL	digital subscriber line
DSU	data service unit
DTE	data terminal equipment
DUS	do not send

E

ECR	bit error corrected rate
EDFA	erbium-doped fiber amplifier
EFD	event forwarding discriminator
ELH	Extended Long Haul
EML	Element Management Layer
EMS	element management system
ENE	end network element
EOC	embedded operations channel
EOI-W	External Orderwire Interface module

EP	extra pump
ES	errored seconds
ESF	Extended Super Frame
ES-L	line errored seconds
ES-P	path errored seconds
ESP-P	errored seconds path
ES-S	section errored seconds
ES-V	errored seconds VT layer
ETSI	European Telecommunications Standards Institute
EXZ	excessive zeros

F

FC-L	line failure count
FC-P	path failure count
FCS	frame check sequence
FDI	forward defect indication
FDL	Facility Data Link
FEAC	Far End Action Code
FEC	forward error correction
FEPM	far-end performance management
FM	fault management
FRU	field-replaceable unit
FT1	fractional T1
FTP	file transfer protocol

G

GBIC	Gigabit Interface Converter
Gbps	gigabits per second

GFP	generic framing procedure
GHz	gigahertz
GMT	Greenwich mean time
GNE	gateway network element
GOS	grade of service
GUI	Graphical User Interface

H

H.248	H.248, also known as the Megaco protocol, is the international standard for media gateway control. Primarily used to separate the call control logic from the media processing logic in a gateway. The device that handles the call control function is referred to as a Media Gateway Controller and the device that handles the media is referred to as a Media Gateway.
HTTP	Hypertext Transfer Protocol

I

I/O	input/output
ID	identification
IDL	Interface Definition Language
IEEE	Institute of Electrical and Electronics Engineers
IIOIP	Internet Inter-ORB Protocol
ILMI	Integrated Local Management Interface
IM	Information Model
IOC-W	Input/Output Card module
IOF	Inter office facility
IP	Internet protocol
IPPM	intermediate path protection monitoring
IRBA	Infrared-band Booster Amplifier module
IRBA-10G	Infrared-band Booster Amplifier–10 Gbps module
IS	in service

J

JRE Java Runtime Environment

K

kbps kilobits per second

km kilometer

L

LAN local-area network

LAP low-order aggregation point

LAPB Link Access Procedure, Balanced

LAPD Link Access Procedure on the D channel

LAPS linear automatic protection switching

LCAS link capacity adjustment scheme

LCI local craft interface

LCP link control protocol

LCT local craft terminal

LED light-emitting diode

LEM Line Extender Module

LEM-10G-Mxx Line Extender Module–10 Gbps–B1 Monitoring

LEM-10G-Nxx Line Extender Module–10 Gbps–Normal

LEM-10H-Mxx Line Extender Module–10 Gbps High Output Power–B1 Monitoring

LEM-622-Nxx Line Extender Module–622 Mbps–Normal

LEM-EM-Fxx Line Extender Module–Externally Modulated–Forward Error Correction

LEM-EM-Mxx Line Extender Module–Externally Modulated–B1 Monitoring

LEM-EM-Nxx Line Extender Module–Externally Modulated–Normal

LESB link error status block

LH long haul

LHS	left-hand side
LIP	Loop Initialization Primitive
LLC	Logical Link Control
LOF	loss of function, loss of frame
LOH	line overhead
LOP	loss of pointer
LOS	loss of signal
LOSS-L	loss-of-signal seconds line
LOT	loss of traffic
LSM-W	Line Service Modem module
LTE	line terminating equipment

M

mA	milliampere
MAC	Media Access Control
MAN	metropolitan-area network
MB	megabyte
Mbps	megabits per second
MCU	Multichannel Unit
Megaco	See H.248
MG	Media Gateway
MGC	Media Gateway Controller
MGM	Media Gateway Manager
MGX	Multiservice Switch
MIB	Management Information Base
MIC	Mechanical Interface Card
MTU	maximum transmission unit
mW	milliwatt

N

NAT	network address translation
NCB	Network Controller Board
NCP	Network Control Protocol
NE	network element
NEID	network element identifier
nm	nanometer
NMA	Network Management and Analysis
NML	Network Management Layer
NMS	network management system
NOC	network operation center
NP	network partition
NPJC-Pdet	negative pointer justification count, STS path detected
NPJC-Pgen	negative pointer justification count, STS path generated
NSA	non-service-affecting
NSAP	network service access point

O

OAM&P	Operation, Administration, Maintenance and Provisioning
OECP-C	Odd/Even Channel Processor–C band module
OECP-L	Odd/Even Channel Processor–L band module
OMG	Object Management Group
OOB	out-of-band
OOB-FEC	out-of-band forward error correction
OOF	out of frame
OOS	out of service
OOS-AINS	out of service–auto in service
OOS-MT	out of service–maintenance

ORB	object request broker
OS	operating system, operations system
OSI	Open Systems Interconnection
OSPF	Open Shortest Path First
OSS	operations support system

P

P	protect
PAD	packet assembler/disassembler
PAP	Password Authentication Protocol
PBIT	parity bit
PBX	private branch exchange
PCA	protection channel access
PDH	plesiochronous digital hierarchy
PDI-P	payload defect indication path
PDU	protocol data unit
PIR	peak information rate
PLF	Power Line Filter module
PLCP	Physical Layer Convergence Procedure
PM	performance management, performance monitoring
PNNI	Private Network to Network Interface
POH	path overhead
POP	point of presence
PoS	packet over SONET/SDH
POST	power-on self test
pots	plain old telephone system
PPJC-PDET	positive pointer justification count, STS path detected
PPJC-Pgen	positive pointer justification count, STS path generated

PPMN	Path Protected Mesh Network
PPP MP	Point-to-Point Multilink Protocol
PRE-L	Pre-Line Amplifier module
PRE-L-IR	Pre-Line Amplifier–Infrared band module
PRI	Primary Rate Interface
PS	perceived severity
PSC	protection switching count
PSC-R	protection switching count-ring
PSC-S	protection switching count-span
PSC-W	protection switching count-working
PSD	protection switching duration
PSD-R	protection switching duration-ring
PSD-S	protection switching duration-span
PSD-W	protection switching duration-working
PTP	Physical Termination Point
PXM1	Processor Switch Module (1.2 Gbps switching capacity)
PXM1-E	Processor Switch Module, Enhanced
PXM45	Processor Switch Module (45 Gbps switching capacity)

R

RAI	remote alarm indication
RAM	random-access memory
RBA	Red-band Booster Amplifier module
RBA-10G	Red-band Booster Amplifier–10 Gbps module
RBA-10G-E	Red-band Booster Amplifier–10 Gbps–ETSI module
RBU	Router Bridge Unit module
RDI	remote defect indication
REI	remote error indication

RFC	request for comments
RFI	remote failure indication
RHS	right-hand side
RIP	Routing Information Protocol
RMON	remote monitoring
RPM	Route Processor Module
Rx	receive
RX CVRD	code violations and running disparity errors encountered in the receive direction
RX HEC	number of CDL header errors encountered in the receive direction

S

SA	service affecting
SA/DA	service address/destination address
SAM	SONET Access Module, SDH Access Module
SAS-L	line severely errored frame/alarm indication signal
SAS-P	path severely errored frame/alarm indication signal
SASP-P	SEF/AIS seconds path
SCC	serial communication controller
SCF	Subrack Common Functions module
SCL	system communications link
SCU	Single-channel Unit, Shelf Control Unit module
SD	signal deterioration
SDCC	SONET data communications channel
SDH	synchronous digital hierarchy
SEF	severely errored frame
SEFS	severely errored framing seconds
SEFS-S	section severely errored framing seconds
SES	severely errored second

SES-L	line severely errored seconds
SES-P	path severely errored seconds
SESP-P	severely errored seconds path
SES-S	section severely errored seconds
SES-V	severely errored seconds VT layer
SF	signal failure, Super Frame
SFP	small form factor pluggable
sid	system identifier
SLIP	Serial Line Internet Protocol
SMDS	Switched Multimegabit Data Service
SNH	Supervision Network Hub module
SNMP	Simple Network Management Protocol
SNS	Supervision Network Switch module
SNTP	simple network time protocol
SOH	section overhead
SONET	synchronous optical network
SPE	synchronous payload envelope
SPVC	soft permanent virtual connection
SQL	structured query language
SRLG	shared risk link group
SSM	synchronization status message
STP	shielded twisted-pair
STP	Spanning-Tree Protocol
STS	synchronous transport signal
STS-N	synchronous transport signal level N
STU	synchronization traceability unknown
SVT	system verification test

T

TC	threshold crossing
TCA	threshold crossing alert
TCC	Timing Communications and Control Card
TCC+	Timing Communications and Control+ Card
TCP	Transmission Control Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
TDS	time-division switching
TFTP	Trivial File Transfer Protocol
TID	target identifier
TIM	trace identifier mismatch
TLAN	transparent local-area network
TMF	TeleManagement Forum
TMN	Telecommunications Management Network
TOH	transport overhead
TP	termination point
TPA	transmit power amplifier module
TPA-B	Transmit Power Amplifier–Blue band module
TPA-IR	Transmit Power Amplifier–Infrared band module
TPA-R	Transmit Power Amplifier–Red band module
TSI	time slot interchange
TSV	tab separated values
TUG	tributary unit group
Tx	transmit

U

UAS	unavailable seconds
UAS-L	line unavailable seconds

UAS-P	path unavailable seconds
UAS-V	unavailable seconds VT layer
UCR	uncorrected codeword rate
UDC	User Data Channel module
UDP	User Datagram Protocol
UI	user interface
UPSR	unidirectional path switched ring
UTC	Coordinated Universal Time
UTP	unshielded twisted-pair

V

V	volt
VAP	VT aggregation point
VC	virtual channel
VCAT	virtual concatenation
VCI	virtual channel identifier
VCG	virtual concatenation group
VCL	virtual channel link
VISM-PR	Voice Inter-working Service Module PRemium
VLAN	virtual local area network
VOA	VOA attenuation
VoIP	Voice over Internet Protocol
VPI	virtual path identifier
VPL	virtual path link
VT	Virtual Tributary
VTB	virtual tributary bundle
VTG	virtual tributary group
VXSM	Voice Switch Service Module

W

W	working
WAN	wide-area network
WCM	Wavelength Converter Module
WCM-10G-Fxx	Wavelength Converter Module–10 Gbps–Forward Error Correction
WCM-10G-Mxx	Wavelength Converter Module–10 Gbps–B1 Monitoring
WCM-10G-Nxx	Wavelength Converter Module–10 Gbps–Normal
WCM-10H-Mxx	Wavelength Converter Module–10 Gbps High Output Power–B1 Monitoring
WCM-622-Nxx	Wavelength Converter Module–622 Mbps–Normal
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WCM-EM-Nxx	Wavelength Converter Module–Externally Modulated–Normal

X

XC	Cross Connect card
XC10G	10 Gigabit Cross Connect card
XCVT	Cross Connect Virtual Tributary card
XTC	Integrated Cross-Connect, Timing, and Control card