



GLOSSARY

Numbers

20MD-L-E	20-channel Mux/Demux–L band–Even channel
20MD-L-O	20-channel Mux/Demux–L band–Odd channel
24WD-LLR	24-channel Wavelength Demultiplexer–Low Loss–Red band
24WD-R	24-channel Wavelength Demultiplexer–Red band
32WD-IR	32-channel Wavelength Demultiplexer–Infrared band
3R	retime, reshape, and regenerate
40MD-C-E	40-channel Mux/Demux–C band–Even channel
40MD-C-O	40-channel Mux/Demux–C band–Odd channel
8MD-C	8-channel Mux/Demux–C band
8WD-B	8-channel Wavelength Demultiplexer–Blue band

A

AC	1. alternating current 2. attachment circuit
ACL	access control list
ACO	alarm cutoff
ADA	Add/Drop Amplifier
ADM	1. add/drop multiplexing 2. add/drop multiplexer
AH	Authentication Header
AIC	Alarm Interface Controller
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
ALS	automatic laser shutdown
AMI	alternate mark inversion
ANS	automatic node setup
ANSI	American National Standards Institute
API	application program interface
APS	automatic protection switching
ARP	Address Resolution Protocol
AS	application server
ASCII	American Standard Code for Information Interchange
ASIC	application-specific integrated circuit
ATM	asynchronous transfer mode
AToM	Any Transport over MPLS
AWG	arrayed waveguide grating

B

B8ZS	binary 8-zero substitution
BAT	Battery Management
BBA	Blue-band Booster Amplifier
BBE	background block errors
BCS-ELH	Band Combiner and Splitter–Extended Long Haul
BCS-LH	Band Combiner and Splitter–Long Haul
BER	bit error rate
BFD	Bidirectional Forwarding Detection
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
CDP	Cisco Discovery Protocol
CHAP	Challenge Handshake Authentication Protocol
CIR	committed information rate
Cisco IOS	Cisco Internetwork Operating System
CIT	craft interface terminal
CLEI	Common Language Equipment Identifier

CLEI codes are used by Telcordia licensees to uniquely identify telecommunications equipment in their networks. A CLEI code is a distinctive identifier for specific telecommunications equipment. The CLEI code conforms to a 10-character alphanumeric structure. These characters define an equipment configuration by specifying basic product type, features, source document, and associated drawings and versions. A CLEI code is unique to a specific piece of equipment and cannot be assigned to any other part. CLEI is a trademark of Telcordia Technologies, Inc.

CLI	command-line interface
CLIP	Client Layer Interface Port
CM	configuration management
CMP	Control and Monitoring Processor
CMP-W	Control and Monitoring Processor
CMP-W-2E	Control and Monitoring Processor–2 Ethernet
CO	central office
CORBA	Common Object Request Broker Architecture

CoS	class of service
CPBIT	C-bit parity bit
CPT	Carrier Packet Transport
CPU	central processing unit
CSMA/CD	carrier sense multiple access collision detect
CSU	channel service unit
CSV	comma-separated values
CTC	Cisco Transport Controller
CTM	Cisco Transport Manager
CTP	connection termination point
CV	coding violation
CV-L	line coding violation
CVLAN	carrier virtual LAN
CV-P	path coding violation
CV-S	section coding violation
CV-V	coding violation VT layer

D

dBm	decibels per milliwatt
DC	direct current
DCC	data communications channel
DCE	data circuit-terminating equipment
DCN	data communications network
DCS	Digital Crossconnect System
DCU	dispersion compensation unit
DDS	digital data service
DHCP	Dynamic Host Configuration Protocol
DLC	digital loop carrier

DMM	Domain Manager Mode
DNS	Domain Name System
DOS	disk operating system
DoS	Denial of Service
DRI	dual-ring interconnect
DS1	digital service 1
DS-1	digital signal level 1
DS3-12	Digital Signal Level Three (12 ports)
DS3N-12	Digital Signal Level Three (N-12 ports)
DS3XM-6	Digital Signal Level 3 Trans Multiplexer (6 ports)
DSCP	Differentiated Services Code Point
DSL	digital subscriber line
DSP	data service provisioning
DSU	data service unit
DTE	data terminal equipment
DTP	Dynamic Trunking Protocol
DUS	do not send
DWDM	dense wavelength division multiplexing

E

ECM	error correction mode
ECR	error corrected rate
EDFA	erbium-doped fiber amplifier
EEPROM	Erasable Programmable Read-Only Memory
EFD	event forwarding discriminator
EFM	Ethernet first mile
EFP	Ethernet Flow Point
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
EoMPLS	Ethernet over MPLS
EP	extra pump
ES	errored second
ESF	Extended Superframe
ESP	Encapsulation Security Payload
ES-L	line errored second
ES-P	path errored second
ES-S	section errored second
ES-V	VT layer errored second
ETSI	European Telecommunications Standards Institute
EVC	Ethernet Virtual Circuit
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

FOG	Fan-Out-Group
FRU	field-replaceable unit
FT1	fractional T1
FTP	1. File Transfer Protocol 2. floating termination point

G

GBIC	Gigabit Interface Converter
Gb/s	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

HDLC	high-level data link control
HO	high order
HTTP	Hypertext Transfer Protocol

I

I/O	input/output
ID	identification
IDL	Interface Definition Language
IEEE	Institute of Electrical and Electronics Engineers
IFP	Internet Fax Protocol
IGMP	Internet Group Management Protocol

IKE	Internet Key Exchange
IIOF	Internet Inter-ORB Protocol
ILMI	Integrated Local Management Interface
IM	Information Model
IOC-W	Input/Output Card
IOF	interoffice facility
IP	Internet Protocol
IPPM	intermediate path performance monitoring
IRBA	Infrared-band Booster Amplifier
IRBA-10G	Infrared-band Booster Amplifier–10 Gb/s
IS	In Service

J

JMOCO	Java Management Object and Configuration Object
JRE	Java Runtime Environment
JVM	Java Virtual Machine

K

kb/s	kilobits per second
km	kilometer

L

L2	Layer 2
L2VPN	Layer 2 VPN
LACP	Link Aggregation Control Protocol
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
LBC	laser bias current
LCAS	link capacity adjustment scheme
LCI	local craft interface
LCP	link control protocol
LCT	local craft terminal
LDP	label distribution protocol
LED	light-emitting diode
LEM	Line Extender Module
LEM-10G-Mxx	Line Extender Module–10 Gb/s–B1 Monitoring
LEM-10G-Nxx	Line Extender Module–10 Gb/s–Normal
LEM-10H-Mxx	Line Extender Module–10 Gb/s High Output Power–B1 Monitoring
LEM-622-Nxx	Line Extender Module–622 Mb/s–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
LKR	lockout request
LLC	Logical Link Control
LNE	LAN-connected network element
LO	low order
LOC	loss of communication
LOF	1. loss of function 2. loss of frame
LOH	line overhead

LOP	loss of pointer
LOS	loss of signal
LOSS-L	line loss-of-signal second
LOT	loss of traffic
LSM-W	Line Service Modem
LSP	Label Switched Path
LT-10G-Cxx	Line Transponder–10 Gb/s–C band–channel xx
LT-10G-SCxx	Line Transponder–10 Gb/s–Single slot–C band–channel xx
LT-10G-SLxx	Line Transponder–10 Gb/s–Single slot–L band–channel xx
LT-25G-Cxx	Line Transponder–2.5 Gb/s–C band–channel xx
LTE	line-terminating equipment

M

mA	milliampere
MAC	Media Access Control
MAN	metropolitan-area network
MB	megabyte
Mb/s	megabits per second
MCU	Multichannel Unit
MEA	Mismatch of Equipment alarm
Megaco	<i>See</i> H.248
MIB	Management Information Base
MIC	Mechanical Interface Card
MPLS	Multiprotocol Label Switching
MPLS-TP	Multiprotocol Label Switching Transport Profile
MS	multiplex section
MS-SPRing	multiplex section shared protection ring
MTU	maximum transmission unit

MUX	multiplexer
MVR	Multicast VLAN Registration
mW	milliwatt

N

NAT	Network Address Translation
NCB	Network Controller Board
NCP	Network Control Protocol
NE	network element
NEID	network element identifier
NNI	network-to-network interface
nm	nanometer
NMA	Network Management and Analysis
NML	Network Management Layer
NMS	network management system
NOC	network operations center
NP	network partition
NPJC-Pdet	negative pointer justification count, STS path detected
NPJC-Pgen	negative pointer justification count, STS path generated
NSA	nonservice-affecting
NSAP	network service access point
NSC	nonstandard facilities command
NSF	nonstandard facilities
NSS	nonstandard facilities setup
NTP	Network Time Protocol

O

OAD-8-C	Optical Add/Drop–8 channel–C band
OADM	Optical Add/Drop Multiplexer
OADM-P4	Optical Add/Drop Multiplexer–Passive–4 channels
OADM-P4-B1	Optical Add/Drop Multiplexer–Passive–4 channels (01, 03, 05, 07)
OADM-P4-B2	Optical Add/Drop Multiplexer–Passive–4 channels (02, 04, 06, 08)
OADM-P4-R1	Optical Add/Drop Multiplexer–Passive–4 channels (09, 11, 13, 15)
OADM-P4-R3	Optical Add/Drop Multiplexer–Passive–4 channels (17, 19, 21, 23)
OA-ELH	Optical Amplifier–Extended Long Haul
OAM&P	operations, administration, management, and provisioning
OBA-C	Optical Booster Amplifier–C band
OC-n	SONET optical carrier, Level <i>n</i> (such as <i>n</i> = 3, 12, 48, 192)
OCH	optical channel
OCHCC	optical channel client connection
OCHNC	optical channel network connection
OCP	Optical Channel Protection
OECF-C	Odd/Even Channel Processor–C band
OECF-L	Odd/Even Channel Processor–L band
OEP-C	Optical Extra Pump–C band
OLA	optical line amplification
OMG	Object Management Group
ONS	Optical Networking System
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

OPA-C	Optical Preamplifier–C band
OP-ELH	Optical External Pump–Extended Long Haul–L band
OPR	optical power received
OPT	optical power transmitted
ORB	object request broker
ORP-ELH-1	Optical Raman Pump–Extended Long Haul–1 (1470 nm)
ORP-ELH-2	Optical Raman Pump–Extended Long Haul–2 (1490 nm)
OS	1. operating system 2. operations system
OSC	1. optical service channel 2. Optical Supervisory Channel
OSCM	Optical Service Channel Modem
OSI	Open System Interconnection
OSPF	Open Shortest Path First
OSS	Operations Support System
OSU-W	Optical Switch Unit
OTN	optical transport network

P

P	protect
PAD	packet assembler/disassembler
PAgP	Port Aggregation Protocol
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
PE	provider edge
PIR	peak information rate
PLCP	physical layer convergence procedure
PLF	Power Line Filter
PLIM	physical layer interface module
PM	1. performance management 2. performance monitoring
PMTU	Path Maximum Transmission Unit
PNNI	Private Network-Network Interface
POH	path overhead
POP	point of presence
PoS	1. packet over SONET 2. packet over SDH
POST	power-on self-test
P-OTS	Packet-Optical Transport System
pots	plain old telephone service
PPJC-PDET	positive pointer justification count, STS path detected
PPJC-Pgen	positive pointer justification count, STS path generated
PPM	pluggable port module
PPMN	path-protected mesh networking
PPP MP	Point-to-Point Multilink Protocol
PRE-L	Pre-Line Amplifier
PRE-L-IR	Pre-Line Amplifier–Infrared band
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
PSK	Presharing Key
PSN	packet-switching network
PTP	physical termination point
PTS	Packet Transport System
PVC	permanent virtual circuit
PXM1E	Processor Switch Module, Enhanced
PXM45	Processor Switch Module (45 Gb/s switching capacity)

Q

QoS	quality of service
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R

RAI	remote alarm indication
RAM	random-access memory
RBA	Red-band Booster Amplifier
RBA-10G	Red-band Booster Amplifier–10 Gb/s
RBA-10G-E	Red-band Booster Amplifier–10 Gb/s–ETSI
RBU	Router Bridge Unit
RDI	remote defect indication
REI	remote error indication
REP	Resilient Ethernet Protocol
RFC	Request for Comments
RFI	remote failure indication

RHS	right-hand side
RIP	Routing Information Protocol
RMON	remote monitoring
RPM	Route Processor Module
RPR	Resilient Packet Ring
RSTP	Rapid Spanning Tree Protocol
RSVP	Resource Reservation Protocol
RSVP-TE	Resource Reservation Protocol-Traffic Engineering
RT-10G	Receive Transponder–10 Gb/s
RT-10G-S	Receive Transponder–10 Gb/s–Single slot
RT-10G-S13	Receive Transponder–10 Gb/s–Single slot 1300 nm
RT-25G	Receive Transponder–2.5 Gb/s
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
RX Power	optical power level received on the trunk side interfaces
RXT	Receive Transponder
RXT-10G-F	Receive Transponder–10 Gb/s–Forward Error Correction
RXT-10G-N	Receive Transponder–10 Gb/s–Normal
RXT-10H-M	Receive Transponder–10 Gb/s High Output Power–B1 Monitoring
RXT-622-N	Receive Transponder–622 Mb/s–Normal
RXT-DM-F	Receive Transponder–Directly Modulated–Forward Error Correction
RXT-DMLH-M	Receive Transponder–Directly Modulated Long Haul–B1 Monitoring
RXT-DM-M	Receive Transponder–Directly Modulated–B1 Monitoring
RXT-DM-N	Receive Transponder–Directly Modulated–Normal

S

SA	service affecting
SA/DA	service address/destination address
SAM	1. SONET Access Module 2. SDH Access Module
SAN	storage area network
SAS-L	line severely errored frame/alarm indication signal
SAS-P	path severely errored frame/alarm indication signal
SASP-P	path SEF/AIS second
SCC	serial communication controller
SCF	Subrack Common Functions
SCL	system communications link
SCU	1. Single-channel Unit 2. Shelf Control Unit
SD	signal deterioration
SDCC	1. section data communications channel 2. SONET data communications channel
SDH	Synchronous Digital Hierarchy
SEF	severely errored frame
SEFS	severely errored framing second
SEFS-S	section severely errored framing second
SES	severely errored second
SES-L	line severely errored second
SES-P	path severely errored second
SES-S	section severely errored second
SES-V	VT layer severely errored second
SF	1. signal failure 2. Superframe

SFP	small form factor pluggable
SID	system identifier
SLIP	Serial Line Internet Protocol
SMDS	Switched Multimegabit Data Service
SNC	subnetwork connection
SNCP	subnetwork connection protection
SNCP-Ring	subnetwork connection protection ring
SNH	Supervision Network Hub
SNMP	Simple Network Management Protocol
SNS	Supervision Network Switch
SNTP	Simple Network Time Protocol
SOH	section overhead
SONET	Synchronous Optical Network
SPA	shared-port adapter
SPE	synchronous payload envelope
SPQ	Strict Priority Queuing
SPR	shared packet ring
SPVC	soft permanent virtual connection
SQL	Structured Query Language
SRLG	shared risk link group
SSH	Secure Shell Protocol
SSM	synchronization status message
STCN	segment topology change notifications
STP	1. shielded twisted-pair 2. Spanning-Tree Protocol
STS	synchronous transport signal
STS-n	synchronous transport signal level <i>n</i>
STU	synchronization traceability unknown

SVLAN service provider virtual LAN

SVT system verification test

T

TC threshold crossing

TCA threshold crossing alert

TCC Timing Communications and Control

TCC+ Timing Communications and Control+

TCF training check field

TCP Transmission Control Protocol

TCP/IP Transmission Control Protocol/Internet Protocol

TDM time-division multiplexing

TDS time-division switching

TE traffic engineering

TFTP Trivial File Transfer Protocol

TID target identifier

TIM trace identifier mismatch

TL1 Transaction Language 1

TLAN transparent local-area network

TMF TeleManagement Forum

TMN Telecommunication Management Network

TOH transport overhead

TP termination point

TPA transmit power amplifier

TPA-B Transmit Power Amplifier–Blue band

TPA-IR Transmit Power Amplifier–Infrared band

TPA-R Transmit Power Amplifier–Red band

TSI time slot interchange

TSV	tab-separated values
TT-10G-Cxx	Transmit Transponder–10 Gb/s–C band–channel xx
TT-10G-SCxx	Transmit Transponder–10 Gb/s–Single slot–C band–channel xx
TT-10G-SLxx	Transmit Transponder–10 Gb/s–Single slot–L band–channel xx
TT-25G-Cxx	Transmit Transponder–2.5 Gb/s–C band–channel xx
TUG	tributary unit group
Tx	transmit

U

UAS	unavailable second
UAS-L	line unavailable second
UAS-P	path unavailable second
UAS-V	VT layer unavailable second
UCR	uncorrected codeword rate
UDC	User Data Channel
UDP	User Datagram Protocol
UI	user interface
UNI	User-Network Interface
UTC	Coordinated Universal Time
UTP	unshielded twisted-pair

V

V	volt
VAD	voice activity detection
VAP	VT aggregation point
VC	virtual channel
VCCV	virtual circuit connection verification
VCAT	virtual concatenation

VCG	virtual concatenation group
VCI	virtual channel identifier
VCL	virtual channel link
VLAN	virtual local-area network
VLB	VLAN load balancing
VOA	variable optical attenuator
VoIP	Voice over IP
VPI	virtual path identifier
VPL	virtual path link
VT	Virtual Tributary
VTB	Virtual Tributary Bundle
VTG	Virtual Tributary Group
VTP	VLAN Trunking Protocol

W

W	working
WAN	wide-area network
WCM	Wavelength Converter Module
WCM-10G-Fxx	Wavelength Converter Module–10 Gb/s–Forward Error Correction
WCM-10G-Mxx	Wavelength Converter Module–10 Gb/s–B1 Monitoring
WCM-10G-Nxx	Wavelength Converter Module–10 Gb/s–Normal
WCM-10H-Mxx	Wavelength Converter Module–10 Gb/s High Output Power–B1 Monitoring
WCM-622-Nxx	Wavelength Converter Module–622 Mb/s–Normal
WCM-EM-Fxx	Wavelength Converter Module–Externally Modulated–Forward Error Correction
WCM-EM-Mxx	Wavelength Converter Module–Externally Modulated–B1 Monitoring
WCM-EM-Nxx	Wavelength Converter Module–Externally Modulated–Normal
WDM	wavelength division multiplexing
WRR	Weighted Round Robin

X

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