Appendix AO
Abbreviations

A

AC	Alternate Current
ADM	Add–Drop Multiplex
AIS	Alarm Indication Signal
ALS	Automatic Laser Shutdown
AMI	Alternate Mark Inversion
APD	Avalanche Photo Diode
APS	Automatic Protection Switching
ASP	Alarm Signal Panel
ATM	Asynchronous Transport Mode
AU	Administrative Unit
AU–AIS	Administrative Unit Alarm Indication signal
AU–EBER	Administrative Unit Excessive Bit Error Rate (also HP–Exc. Error B3)
AU–LOP	Administrative Unit Loss of Pointer
AUG	Administrative Unit Group
AUPJ	AU Pointer Justification
AU–SD	Administrative Unit Signal Degrade (Bit Error Rate) (also HP–BIP Error B3)
AU–n	Administrative Unit – n
AUX	Auxiliary Unit
AWG	American Wire Gauge

B

B2–EBER	Multiplex Section Excessive Bit Error Rate (also MS–EBER or MS–Exc. error)
B2–SD	Multiplex Section Signal Degrade (Bit Error Rate) (also MS–SD or MS–BIP error)
B8ZS	Bipolar 8 Zeros Substitution
BBE	Background Block Error
BC	Bell Connection
BER	Bit Error Rate
BIP – n	BIT Interleaved Parity – n
BIT	Binary Digit

C

C2–MISMATCH	High Order Path Signal Label Mismatch (also HP–SLM)
C2–UNEQUIPPED	High Order Path Unequipped (also HP–UNEQ)
C–n	Container – n
C–4	Container of Hierarchy Level 4
CB	Circuit Breaker
CCDOP	Communication Channel CU–DOP
CCH	Handset for Collective Call
CCITT	Comité Consultatif International de Télégrafique et Telephonique
CMI	Coded Mark Inversion
CMISE	Common Management Information Service Element
COMMS	Communications
COS	Central Operation Survey
CP	Control Panel of the DOP
CPU	Central Processing Unit
CRC	Cyclic Redundant Control
CSES	Consecutive Several Errored Seconds
CU	Controller Unit

D

D/A	Digital/Analog converter
DC	Direct Current
DCC	Data Communication Channel
DCCM	Data Communication Channel – Multiplex Section
DCCR	Data Communication Channel – Regenerator Section
DCE	Data Circuit terminating Equipment
DDF	Digital Distribution Frame
DFB	Distributed Feed–Back (Laser)
DFB–LD	Distributed Feed–Back Laser Diode
DOM	Display and Operation Module of the DOP
DOP	Display and Operation Panel
DQDB	Dual Queue Dual Bus
DTE	Data Terminal Equipment
DTMF	Dual Tone Multi–Frequency
DXC	Digital cross Connect

E

EB	Errored Block
EBER	Excessive Bit Error Rate
ECC	Embedded Communication Channel
E&M	Exchange and Multiplex
EEPROM	Electrically Erasable Programmable Read Only Memory
EIA	Electrical Industries Association
EM	Element Manager
EOS	End Of Shelf
EOW	Engineer Order Wire
EPROM	Erasable Programmable Read Only Memory
ES	End System

ESC	Errored Second Counter
ESD	Electrostatic Discharge
ETS	European Telecommunication Standard
ETSI	European Telecommunication Standard Institute

F

F	Interface for Operating Terminal
FDDI	Fiber Distributed Data Interface
FERF	Far End Receive Failure
FH	Error Ratio
FIFO	First Input First Output
FP–LD	Fabry–Perot Laser Diode

G

GA	General Alarm
Gbit/s	Abbreviation of Giga (10^9) bits per second

H

HDB3	High Density Bipolar code (max 3 zeros)
HDLC	High Level Data Link Control
HHT	Hand–held Terminal
HO–FERF	High Order Path Far End Receive Failure (also HP–FERF or HP–RDI)
HOPF	High Order Path Far End Block Error (also HP–FEBE or HP–REI)
HTCT	High Order Tandem Connection Termination Function

I

IND	Indicative Alarm
IS	Intermediate System
ISO	International Organization for Standardization

ITU–T	International Telecommunication Union – Telecommunication standardization sector

J

J1–MISMATCH	High Order Path Trace Identifier Mismatch (HP–TIM)

K

kbit/s	Abbreviation of kilo (10^3) bits per second

L

LAN	Local Area Network
LAPD	Link Access Procedure for D – channel
LASER	Light Amplification by Stimulated Emitted Radiation
LC	Local Controller
LED	Light Emitting Diode
LINE in/oupt	Input/Output of Line Interface
LOF	Loss of Frame
LOMF	Loss of Multiframe
LOP	Loss of Pointer
LOPF	Low Order Path Far End Block Error (also LP–FEBE or LP–REI)
LOS	Loss of Signal

M

MAC	Medium Access Control
MAI	Message and Alarm Interface
MAN	Metropolitan Area Network
MCF	Message Communication Function
MCK	Message Communication Function
µP	Microprocessor
mm	millimeter

MS	Multiplex Section
MS–AIS	Multiplex Section Alarm Indication Signal
MS–EBER	Multiplex Section Excessive Bit Error Rate (also B2–EBER or MS–Exc. error)
MS–FERF	Multiplex Section Far End Receive Failure (also MS–RDI)
MSOH	Multiplex Section OverHead
MSP	Multiplex Section Protection
MS–SD	Multiplex Section Signal Degrade (Bit Error Rate) (also MS–BIP error)
Mbit/s	Abbreviation of Mega (10^6) bits per second

N

NE	Network Element
NMC	Network Management Centre
NPDU	Network Protocol Data Unit
NRZ	Non–Return To Zero
NRZI	Non–Return To Zero Inverted
NSAP	Network Service Access Point
NURG	Not Urgent Alarm

O

OC	Optical Coupler
ODF	Optical Distribution Frame
OFS	Out of Frame Seconds
OH	OverHead
OOF	Out Of Frame
ORX	Optical Receiver
OSF	Open Software Foundation
OSI	Open System Interconnection protocol
OTI	Operating Terminal Interface

OTX	Optical Transmitter

P

PABX	Private Automatic Branch Exchange
PBX	Private Branch Exchange
PATH SIGNAL LABEL MISMATCH	Low Order Path Signal Label Mismatch (also LP–SLM)
PATH TRACE MISMATCH	Low Order Path Trace Identifier Mismatch (also LP–TIM)
PATH–AIS	Low Order Path Alarm Indication Signal (also LP–AIS)
PATH–EBER	Low Order Path Excessive Bit Error Rate (also LP–Exc. Error V5)
PATH–FERF	Low Order Path Far End Receive Failure (also LP–RDI)
PATH–LOP	Low Order Path Loss of Pointer (also TU–LOP)
PATH–SD	Low Order Path Signal Degrade (Bit Error Rate) (also LP–BIP Error V5)
PATH–UNEQUIPPED	Low Order Path Unequipped (also LP–UNEQ)
PC	Personal Computer
PCI	Personal Computer Interface
PCM	Pulse Code Modulation
PIOP	Parallel Input Output Port
PJEC	Pointer Justification Event Counter
PLL	Phase Locked Loop
POH	Path Overhead
ppm	part per million
PRAI	Path Remote Alarm Indication
PRBS	Pseudo–Random BIT Sequence
PROM	Programmable Read Only Memory
PS	Power Supply
PSTN	Pubblic Service Telecommunication Network

Q

Q	Interface for the management network TMN (Telecommunication Management Network)

R

RAM	Random Access Memory
RDI	Remote Defect Indication (former FERF)
REI	Remote Error Indication (former FEBE)
RFI	Remote Failure Indication
ROM	Read Only Memory
RS	Regenerator Section
RSOH	Regenerator Section Overhead
RX	Receive

S

SB	Sub-rack
SCH	Handset for Selective Call
SDH	Synchronous Digital Hierarchy
SEC	Synchronisation Equipment Clock
SESC	Severely Errored Second Counter
Sig bus	Signaling bus
SIPO	Serial Input Parallel Output
SMSW	System Management Software
SNC	SubNetwork Connection
SNC/P	Sub-Network Connection Protection
SOH	Section OverHead
SSM	Synchronisation Status Message
STM	Synchronous Transport Module

STM–1	Synchronous Transport Module Level 1 Basic Signal of the Synchronous Digital Hierarchy (155.520 Mbit/s)
STM–n	Synchronous Transport Module Level N Multiplex Signal with bit rate N x 155.520 Mbit/s
STU	Service Telephone Unit
SWG	Standard Wire Gauge

T

TC	Tandem Connection
TCH	Traffic Channel
TC–ISF	Tandem Connection Incoming Signal Failure
TC–DEG	Tandem Connection Signal Degrade (Bit Error Rate) monitor
TC–EBER	Tandem Connection Excessive Bit Error Rate monitor
TC–UNEQ	Tandem Connection Unequipped
TIM	Trace Identifier Mismatch
TMN	Telecommunication Management Network
TOP	Telephone Operating Panel
TRIB	Interface for the main signal (tributary signal) at the start or end of the transmission route (terminal–equipment side, subscriber side)
TRIB in/out	Input/Output of Tributary Interface
TU–AIS	Low Order Path Alarm Indication Signal monitor (also LP-AIS monitor)
TU–EBER	Low Order Path Excessive Bit Error Rate monitor (also LP-Exc. Error V5 monitor)
TUG–n	Tributary Unit Group – n
TU–LOM	High Order Path Loss of TU Multiframe (also HP–LOM)
TU–LOP	Low Order Path Loss of Pointer
TUPJ	TU Pointer Justification
TU–SD	Low Order Path Signal Degrade (Bit Error Rate) monitor (also LP–BIP Error V5 monitor)
TU–n	Tributary Unit – n
TX	Transmit

U

UA	Urgent Alarm
UART	Universal Asynchronous Receiver Transmitter
UAS	Unavailable Seconds
UIS	Unequipped Indication Signal
URG	Urgent Alarm

V

VCO	Voltage Controlled Oscillator
VC–n	Virtual Container – n

W

WAN	Wide Area Network
WTR	Wait To Restore

X

Y

Z