

Telecommunications Abbreviations and acronyms:

2G Second Generation
3G Third Generation
3GIP 3rd: Generation partnership for Internet Protocol
3GPP 3rd: Generation Partnership Project WCDMA
3GPP2 3rd: Generation Partnership Project 2 CDMA 2000
a.f audio frequency
AAL ATM Adaption Layer
AAL: ATM Adaptation Layer
AAS Automatic Announcement Subsystem
ABR Automatic Bit Rate
ACELP: Algebraic Code Excited Linear Prediction
ACR Attenuation-to-Crosstalk Ratio
ADM Add and Drop Multiplexer
ADSL Asymmetric Digital Subscribers Line
ALCAP: Access Link Control Application Part
AM Amplitude Modulation
AMPS: Advanced Mobile Phone System
AMR: Adaptive Multi Rate
AN (C,XU): Antenna Network
AND: Abbreviated Dialling Number
ANSI American National Standards Institute
ANSI: American National Standard Institute USA
APD Avanlanche Photo Diode
ARIB: Association of Radio Industries and Business Japan
ARQ Automatic Repeat Request
AS Autonomous System
ASBR Autonomous System Boundary Routing
ASCII American Symbolic Code for Information Interchange
ASLA Application Service Level Agreement
ASP Application Service Part
ATC: ATM Traffic Contract
ATM Asynchronous Transfer Mode OR Automatic
ATM: Asynchronous Transfer Mode
AUC Authentication Centre
BB :Base Band
BCCH: Broadcast Control Channel
BCD Binary Coded Decimal
BD Building Distributor
BER Bit Error Rate
BER: Bit Error Rate

BHCA: Busy Hour Call Attempts
BISUP Broadband ISDN User Part
BJT Bipolar Junction Transistors
BLER: Block Error Rate
BMC Broadcast / Multicast Control
BMC: Broadcast Multicast Control
BM-IWF: Broadcast Multicast Inter-Working Function
bps bits per second
BSC Base Station Controller
BSC: Base Station Controller
BSS: Base Station (sub)System
BT Burst Tolerance
BTS Base Transceiver Station
BTS: Base Transceiver Station
BWC: Bandwidth Control
C/No Carrier-to-Noise Density Ratio
CAC: Connection Admission Control
CAMEL: Customised Application for Mobile Enhanced Logic
CBR Constant Bit Rate
CC: Call Control
CCCH: Common Control Channel
CCS Common Channel Signalling
CCT: Call Con**** Template
CCTrCH: Coded Composite Transport Channel
CD Campus Distributor
CDMA Code Division Multiple Access
CDMA: Code Division Multiple Access
CDMA-DS Code Division Multiple Access – Direct Sequence
CDR: Call Data Record
CDV Cell Delay Variation
CDV: Cell Delay Variation
CGI Common Gateway Interface
CIDR Classless Inter-Domain Routing
CLI Call Line Identifiers
CLR Cell Loss Rate
CLR: Cell Loss Ratio
CM: Configuration Management
CN Core Network
CN: Core Network
CORBA: Common Object Request Broker Architecture
CP: Central Processing
CPCH: Common Packet Channel
CPCS: Common Part Convergence Sub-layer

CPS Call Processing Subsystem
CPS: Command Part Sub-layer
CPU Central Processing Unit
CPU: Central Processing Unit
CRC Cyclic Redundancy Check
CRC: Cyclic Redundant Check
CS Circuit Switched
CS: Circuit Switched
CS: Convergence/Adaptation to Services (ATM)
CSMA/CD Carrier Sensing Multiple Access/Collision Detection
CTCH: Common Traffic Channel
CTD Cell Transfer Delay
CTD: Cell Transfer Delay
CW Continous Wave
CWTS: China Wireless Telecommunication Standard group
d.c direct current
DA Destination Address
dB decibel
DCA: Dynamic Channel Allocation
DCCH: Dedicated Control Channel
DCE Data Circuit-terminal Equipment
DCH: Dedicated Channel
DCN: Data Communication Network
DHCP Dynamic Host Configuration Protocol
DHO: Diversity HandOver
DHT: Diversity HandOver Trunk
DLT Digital Line Termination
DM Delta Modulation
DNS Domain Name Service
DOD Department Of Defence
DPSK Differential Phase Shift Keying
DRAC: Dynamic Resource Allocation Control
DRNC: Drift RNC
DS: Direct Sequence
DSB Double-SideBand
DSCH: Downlink Shared CHannel
DSS Digital Switching Subsystem
DSSS Digital Subscriber Switching Subsystem
DTCH: Dedicated Traffic CHannel
DTE Data Terminal Equipment
DWDM Dense Wavelength Division Multiplexing
e.h.f extra high frequency
Eb/No Energy of Bit-to-Noise Density Ratio

EDGE Enhanced Data rates for GSM Evolution
EDGE: Enhanced Data rates for GSM Evolution
EDH European Digital Hierarchy
EFR: Enhanced Full Rate
EGP Exterior Gateway Protocol
E-GPRS: Enhanced GPRS
E-GSM: Enhanced GSM
EIR Equipment Identity Register
EIRP Effective Isotropic Radiated Power
ELFEXT Equal Level Far End CrossTalk
EM Element: (or Equipment) Manager
EMI Electro Magnetic Interface OR Electro
EPOS Electronic Point Of Sale
ES End Systems
ETSI European Telecommunications Standards Institute
ETSI: European Telecommunication Standard Institute
F noise Factor
FACH: Forward Access Channel
FBI: Feed-Back Information
FCS Frame Check Sequence
FD Floor Distributor
FDD Fequency Division Duplex
FDD: Frequency Division Duplex
FDD-DS FDD: Direct Sequence (FDD1)
FDDI Fibre Distributed Data Interface
FDD-MC FDD: Multiple Carrier (FDD2)
FDL: File Download (EM application)
FDMA: Frequency Division Multiple Access
FEC Forward Error Control
FER: Frame Error Rate
FET Field Effect Transistors
FEXT Far End Crosstalk
FM Frequency Modulation
FSK Frequency-Shift Keying
ftp file transfer protocol
FTP: File Transfer Protocol
FvX: Flexor Visual Explorer
FW: Firmware
GCRA: Generic Cell Rate Algorithm
GERAN: GSM/EDGE Radio Access Network
GFI General Format Indicator
GGSN: Gateway GPRS Support Node
GMSC: Gateway MSC

GMSK: Gaussian Minimum Shift Keying
GP: Granularity Period
GPR General Packet Radio
GPRS: General Packet Radio Service
GPS Global Positioning Satellites
GSM Global System for Mobile telecommunications
GSM: Global System for Mobile Communications
GTP GPRR Tunnelling Protocol
GTP GPRS: Tunneling Protocol
GTP-U GPRS: Tunneling Protocol-User Plane
GUI Graphical User Interface
GUI: Graphical User Interface
h.f high frequency
HDD: Hard Disk
HDLC High-level Data Link Control
HHO: Hard HandOver
HIF: High speed Interface
HLR Home Location Register
HLR: Home Location Register
HO: HandOver
HSDPA: High Speed Downlink Packet Access
HSS: Home Subscriber Service
HTML Hyper Text Markup Language
http hyper text transfer protocol
HVAC Heat Ventilation Air-Conditioning
i.f intermediate frequency
ICMP Internet Control Message Protocol
ICT Information and Communication Technology
IDC Internet Data Centre
IDL: Interface Definition Language
IEC International Electrotechnical Commission
IEEE Institute of Electrical & Electronic Engineering
IETF Internet Engineering Task Force
IETF: Internet Engineering Task Force
IGP Interior Gateway Protocol
IM: Information Manager
IMEI: International Mobile Equipment Identity
IMS IP: Multimedia Subsystem
IMSI: International Mobile Subscriber Identity
IMT: International Mobile Telecommunication
IMT-2000 International Mobile Telecommunications – 2000
IMT-DS: Direct Sequence
IMT-MC: Multi Carrier

IMT-SC: Single Carrier
IMT-TC: Time Code
IN Intelligent Networks
IOR: Interoperable Object Reference
IOT: Inter Operability Tests
IP Internet Protocol
IP: Internet Protocol
IPDL: Idle Period Downlink
IPsec Internet Protocol security
IPv6 Internet Protocol version 6
IPX Internet Packet eXchange
IR: Incremental Redundancy
IS Intermediate System
ISC: Internetworking Services Card
ISDN Integrated Services Digital Network
ISDN: Integrated Services Digital Network
ISI Inter Symbol Interference .
IS-IS Intermediate-System to Intermediate-System
ISO International Standards Organisation
ISP Internet Service Provider
Irf-b: Interface Node B - OMC-R
Irf-r: Interface RNC - OMC-R
ITU International Telecommunications Union
ITU: International Telecommunication Union
Iub: Interface Node B - RNC
Iu-CS: Interface RNC - CN Circuit Switch
Iu-PS: Interface RNC - CN Packet Switch
Iur: Interface RNC - RNC
JVM Java Virtual Machine
Kbps: Kilobits per second
I.f low frequency
L1, L2, L3 Layer1 , Layer 2, Layer3
LA: Local Area
LAC: Local Area Code
LAN Local Area Network
LAN: Local Area Network
LAP Link Access Protocol
LAPB Link Access Procedure Balanced
LAPD Link Access Procedure on the D channel
LAPF Link Access Procedure for Frame relay
LAPM Link Access Procedure for Modems
LCGN Logical Channel Group Number
LCN Logical Channel Number

LCS: LoCation Services
LDN Local Distribution Network
LED Light Emitting Diodes
LIF: Low speed Interface
Line Adapter
LLC Logical Link Control
LLC: Logical Link Control
LM: Load Module
LMT: Local Maintenance Terminal
LNP Local Number Portability
LQC: Link Quality Control
LSA Link State Advertisement
m.f medium frequency
M3UA SS7 MTP3: User Adaptation layer
MAC Medium Access Control
MAC: Medium Access Control
Magnetic Interference
MAN Metropolitan Area Network
MAP: Mobile Application Part
MBS: Maximum Burst Size (ATM)
MBS: Multi-standard Base Station (UTRAN)
MCR: Minimum Cell Rate
MCS Maintenance Control Subsystem
MDF Main Distribution Frame
MExE: Mobile Execution Environment
MIB Management Information Base
MM: Mobility Management
MMIS Man Machine Interface Subsystem
MMUX: Mac Multiplexer
MS Mobile Station
MSC Mobile Switching Centre
MSC: Mobile Switching Centre
MSP: Multiple Subscriber Profile
MSS Management Statistics Subsystem
mtbf mean-time-between-failures
MTP Message Transfer Part
MTP3: Message Transfer Part level 3
MTP-3B: Message Transfer Part level 3 Broadband
MTS Message Transmission Subsystem
mttr mean time to repair
N/E: Normal/ Emergency
NA Numerical Aperture
NADH North American Digital Hierarchy

NAS: Non Access Stratum
NAT Network Address Translation
NBAP: Node-B Application Part
NE: Network Element
NEM: New element manager
NEXT Near End CrossTalk
NF Noise Factor
NIC Network Interface Card
NM: Combined EM and SNM
NML: Network Management Layer
NMS Network Management System
NMS: Network Management System
NPA: Network Performance Analyser
NSS Network Synchronisation Subsystem
NTP: Network Time Protocol
NUA Network User Address
OAM: Operation And Maintenance
OD: Office Data
ODMA: Opportunity Driven Multiple Access
ODT: Office Data Tool
ODTM: Office Data Tool Macro
OMC-R: Operation & Maintenance Centre - Radio
OOP Object Oriented Programming
op-amp operational amplifiers
OPEX: OPerational EXpenditures
ORB: Object Request Broker
OS: Operating System
OSA: Open Service Architecture
OSI Open Systems Interconnection
OSIRM Open Systems Interconnection Reference Model
OSPF Open Shortest Path First
OSU: OAM Signalling Unit
OTDOA: Observed Time Difference of Arrival
OTSR: Omni directional Tx/Sectorised Rx
OVSF Orthogonal Variable Spreading Factor
OVSF: Orthogonal Variable Spreading Factor
P/ R: Primary/ Redundant
PABX Private Automatic Branch Exchanges
PAD Packet Assembler / Dissembler
PAM Pulse Amplitude Modulation
PAMR Public Access Mobile Radio
PBX Private Branch eXchange
PC Personal Computer

PCCH: Paging Control Channel
PCM Pulse Code Modulation
PCR Peak Cell Rate
PCR: Peak Cell Rate
PCU: Packet Control Unit
PDA: Personal Digital Assistant
PDC: Personal Digital Cellular (2G Japan)
PDCP Packet Data Convergence Protocol
PDH Plesiochronous Digital Hierarchy
PDN Public Data Network
PDP: Packet Data Protocol
PDU: Protocol Data Unit
PHP Perl Hypertext Pre-Process
PIN P-type Intrinsic N-type
PKI Public Key Infrastructure
PLM Public Land Mobile Landwork
PLMN: Public Land Mobile Network
PM Phase Modulation
PM: Performance Measurement (O&M)
PM: Physical Medium (ATM)
PMR Private Mobile Radio
PMUL: Performance Measurement Upload
POTS Plain Old Telephone System
PPM Pulse Position Modulation
PPP Point-to-Point-Protocol
pps packets per second
PRACH: Physical Random Access Channel
PS Packet Switched
PS: Packet Switched
PSK Phase-Shift Keying
PSK: Phase Shift Keying
PSNEXT Power Sun NEXT
PSTN Public Switched Telecommunications Network
PSTN: Public Switched Telephone Network
PTI Packet Type Identifier
PTO Public Telecommunications Operators
PUS Processor Utility Subsystem
PVC Permanent Virtual Circuit
PWM Pulse Width Modulation
QAM Quadrature-Amplitude Modulation
QoS Quality of Service
QoS: Quality of Service
QPSK Quadrature Phase Shift Keying

QPSK: Quadrature Phase Shift Keying
r.f. radio frequency
r.m.s root mean square
R99 Release 99
RA: Routing Area
RAB: Radio Access Bearer
RAC: Radio Admission control
RAC: Routing Area Code
RACH: Random Access Channel
RAID Redundant Array of Independent Drives
RAID: Redundant Array Independent (or InexpensiveDisk
RAKE Radio Activated Key Entry
RAM Random Access Memory
RAN: Radio Access Network
RANAP: RAN Application Part
RB: Radio Bearer
RF: Radio Frequency
RFC Request For Comments
RFP Request For Proposal
RIP Routing Information Protocol
RIT: Replaceable Item (board, card or module)
RLC Radio Link Control
RLC: Radio Link Control
RMON Remote Monitoring
RNC: Radio Network Controller
RNO: Radio Network Optimiser
RNP: Radio Network Planning
RNS: Radio Network Sub-System
RNSAP: RNS Application Part
RNTI: Radio Network Temporary Identity
ROADS Running Out Of ADDRESS Space
ROCH: Robust Header Compression
RP: Reporting Period
RPMT: RNC Performance Monitoring Tool
RRC Radio: Resource Control
RRM: Radio Resource Management
RTO Regional Telephone Operators
s.h.f super high frequency
SA Source Address
SAC: Service Area Code
SAP Service Advertisement Protocol
SAP: Service Access Point
SAR: Segmentation And Re-assembly

SAT: SIM Application Toolkit
SC: Short Cell
SC: System Configuration
SCCP Signalling Connection Control Part
SCF: System Configuration File
SCP Service Control Point
SCR Sustained Cell Rate
SCR: Sustainable Cell Rate
SDH Synchronous Digital Hierarchy
SDH: Synchronous Digital Hierarchy
SF: Spreading Factor
SFD Start Frame Delimiter
SGML Standard Generalized Markup Language
SGSN: Serving GPRS Support Node
SHO: Soft HandOver
SIR: Signal to Interference Ratio
SLA Service Level Agreement OR Synchronous
SLD Semiconductor Laser Diodes
SMI Structure of Management Information
SMS: Short Message Service
smtp simple mail transfer protocol
SNM: Sub-Network Manager
SNMP Simple Network Management Protocol
SNMP: Simple Network Management Protocol
SOH: Section Overhead
SONET Synchronous Optical NETwork
Spanning Tree Protocol
SPC Stored Program Control
SPU: Signaling Processing Unit
SQL Standard Query Language
SQL: Structured Query Language
SRNC: Serving RNC
SS7 Signalling System No. 7
SSB Single-SideBand
SSCOP: Service Specific Connection Oriented Protocol
SSCP: Signaling Connection Control Part
SSM Solstice Sunnet Manager
SSP Service Switching Point
SSW Space SWitch
STA Spanning Tree Algorithm
STM Synchronous Transfer Mode
STM: Synchronous Transfer Mode
STP Shielded Twisted Pair OR Signal Transfer Point OR

STS Synchronous Transfer Signal
STTD: Space Time transmit diversity
SU: Signalling Unit
SV: Super Vision
SVC Switched Virtual Circuit
SWDL: SoftWare DownLoad
TCAP Transaction Capabilities Application Part
TCP Transmission Control Protocol
TCP/IP Transmission Control Protocol/Internet Protocol
TCP: Transport Control Protocol
TD-CDMA: Time Division & CDMA
TDD: Time Division Duplex
TDM Time Division Multiplexing
TDMA Time Division Multiple Access
TDMA: Time Division Multiple Access
Teller Machine
TETRA Terrestrial Trunked Radio
TEU: Transmitter Equipment UMTS
TF: Transport Format
TFC: Transport Format Combination
TFCI: Transport Format Combination Indicator
TFCS: Transport Format Combination Set
TFS: Transport Format Set
TFTP Trivial File Transfer Protocol
TIA: Telecommunication Industry Association (USA)
TMA: Tower Mounted Amplifier
TMN: Telecommunication Management Network
TMSI: Temporary Mobile Subscriber Identify
TNS Test Network Subsystem
TO Telecommunication Outlet
TP Transition Point
TPA: Transmit Power Amplifier
TPC: Transmission Power Control
TQL: Query Language for semi-structured data
TRE: Transceiver Equipment GSM
TRF Tuned Radio Frequency
TS: Tuning Session
TSAL: Tuning Session Application Log
TSTD: Time Switch Transmit Diversity
TSW Time SWitch
TTA: Telecommunication Technology Association Korea
TTC: Telecommunication Technology Committee Japan
TTL Time To Live

TUP Telephone User Part
u.h.f ultra high frequency
UARFCN: UTRA Absolute Radio Frequency Channel Number
UBR Unspecified Bit Rate
UDP User Datagram Protocol
UDP: User Datagram Protocol
UE: User Equipment
UICC: UMTS Integrated Circuit Card
UML Unified Modelling Language
UMTS Universal Mobile Telephone System
UMTS: Universal Mobile Telecommunication System
UPS Uninterrupted Power Supply
URA: UTRAN Registration Area
USB: Universal Serial Bus
USIM: UMTS Subscriber Identity Card
USM: User Service Manager
USSD: Unstructured Supplementary Service Data
UTP Unshielded Twisted Pair
UTRA: UMTS Radio Access Network ETSI
UTRA: Universal Radio Access Network 3GPP
UTRAN UMTS Terrestrial Radio Access Network
UTRAN: UMTS Terrestrial Radio Access Network
UWCC: Universal Wireless Communications Committee
v.h.f very high frequency
v.l.f very low frequency
VBR Variable Bit Rate
VC: Virtual Channel
VCC Virtual Channel Connection
VCI Virtual Channel Identifier
VCI: Virtual Channel Identifier
VHE: Virtual Home Environment
VLAN Virtual Local Area Network
VLR Visitor Location Register
VLR: Visitor Location Register
VLSM Variable Length Subnet Masks
VOIP Voice Over Internet Protocol
VoIP: Voice over IP
VP: Virtual Path
VPC Virtual Path Connection
VPI Virtual Path Identifier
VPI: Virtual Path Identifier
VPN Virtual Private Network
VSAT Very Small Aperture Satellite

VSWR: Voltage Standing Wave Ratio
W3C: World Wide Web Consortium
WAN Wide Area Network
WAP: Wireless Application Protocol
W-CDMA: Wide-band Code Division Multiple Access
WDM Wavelength Division Multiplexing
WIM: WAP Identity Module
xDSL xDigital Subscriber Line
XML eXtensible Markup Language
XML: Extensible Mark-up Language
XOS Cross Office Slot .