

LTE Abbreviations List

3GP	3GPP file format	ANDSF-SN	Access Network Discovery and Selection Function Server Name
3GPP	Third Generation Partnership Project	ANID	Access Network Identity
A		ANP	Access Network Provider
A3	Authentication algorithm A3	AoC	Advice of Charge
A38	A single algorithm performing the functions of A3 and A8	AoCC	Advice of Charge Charging
A5/1	Encryption algorithm A5/1	AoCI	Advice of Charge Information
A5/2	Encryption algorithm A5/2	AP	Access preamble
A5/X	Encryption algorithm A5/0-7	APDU	Application Protocol Data Unit
A8	Ciphering key generating algorithm A8	API	Application Programming Interface
AAA	Authentication, Authorization and Accounting	APN	Access Point Name
AAC	Advanced Audio Coding	ARFCN	Absolute Radio Frequency Channel Number
AB	Access Burst	ARP	Address Resolution Protocol
ACIR	Adjacent Channel Interference Ratio	ARQ	Automatic Repeat ReQuest
ACK	Acknowledgement	ARR	Access Rule Reference
ACL	Access Control List	AS	Access Stratum
ACLR	Adjacent Channel Leakage Power Ratio	ASC	Access Service Class
ACS	Adjacent Channel Selectivity	ASCI	Advanced Speech Call Items
ACU	Antenna Combining Unit	ASE	Application Service Element
ADC	Analogue to Digital Converter	A-SGW	Access Signalling Gateway
ADF	Application Dedicated File	ASN.1	Abstract Syntax Notation One
ADN	Abbreviated Dialling Numbers	AT command	ATtention Command
ADPCM	Adaptive Differential Pulse Code Modulation	ATM	Asynchronous Transfer Mode
ADU	Application Data Unit	ATR	Answer To Reset
AE	Application Entity	ATT (flag)	Attach
AEC	Acoustic Echo Control	AU	Access Unit
AEF	Additional Elementary Functions	AuC	Authentication Centre
AES	Advanced Encryption Standard	AUT(H)	Authentication
AFC	Automatic Frequency Control	AUTN	Authentication token
AGCH	Access Grant CHannel (GSM)	AVC	Advanced Video Coding
AI or Ai	Acquisition Indicator	AWGN	Additive White Gaussian Noise
AICH	Acquisition Indicator Channel (UMTS)	B	
AID	Application IDentifier	BA	BCCH Allocation
AIUR	Air Interface User Rate	BAIC	Barring of All Incoming Calls
AK	Anonymity Key	BAOC	Barring of All Outgoing Calls
AKA	Authentication and Key Agreement	BBU	Base-Band Unit (DRoF context)
AKA	Authentication and Key Agreement	BCCH	Broadcast Control Channel (logical channel)
AKI	Asymmetric Key Index	BCD	Binary Coded Decimal
ALC	Asynchronous Layered Coding	BCF	Base station Control Function
ALCAP	Access Link Control Application Protocol (UMTS)	BCFE	Broadcast Control Functional Entity
ALSI	Application Level Subscriber Identity	BCH	Broadcast Channel
ALW	ALWays	BCIE	Bearer Capability Information Element
AM	Acknowledged Mode	BDN	Barred Dialling Number
AMBR	Aggregate Maximum Bit Rate	BER	Basic Encoding Rules (of ASN.1)
AMF	Authentication Management Field	BG	Border Gateway
AMR	Adaptive Multi Rate	BGT	Block Guard Time
AMR-WB	Adaptive Multi Rate Wide Band	BI	all Barring of Incoming call
AN	Access Network	BIC	Baseline Implementation Capabilities
ANDSF	Access Network Discovery and Selection Function	BIC-Roam	Barring of Incoming Calls when Roaming outside the home PLMN country
		BID	Binding Identity
		BLER	Block Error Ratio
		Bm	Full-rate traffic channel
		BM-SC	Broadcast-Multicast - Service Centre
		BN	Bit Number
		BO	all Barring of Outgoing call
		BOC	Bell Operating Company

BOIC	Barring of Outgoing International Calls	Cct	Circuit
BOIC-exHC	Barring of Outgoing International Calls except those directed to the Home PLMN Country	CD	Carrier Detection
BPSK	Binary Phase Shift Keying	CDMA	Code Division Multiple Access
BS	Base Station	CDR	Charging Data Record
BSC	Base Station Controller	CEND	end of charge point
BSG	Basic Service Group	CEPT	Conférence des administrations Européennes des Postes et Telecommunications
BSIC	Base transceiver Station Identity Code	CF	Conversion Facility
BSIC-NCELL	BSIC of an adjacent cell	CFB	Call Forwarding on mobile subscriber Busy
BSS	Base Station Subsystem	CFN	Connection Frame Number
BSSAP	Base Station Subsystem Application Part	CFNRc	Call Forwarding on mobile subscriber Not Reachable
BSSGP	Base Station Subsystem GPRS Protocol	CFNRy	Call Forwarding on No Reply
BSSMAP	Base Station Subsystem Management Application Part	CFU	Call Forwarding Unconditional
BSSOMAP	Base Station Subsystem Operation and Maintenance Application Part	CGI	Common Gateway Interface
BTFD	Blind Transport Format Detection	CGI	Cell Global Identifier
BTS	Base Transceiver Station (GSM Base Station)	CHAP	Challenge Handshake Authentication Protocol
BVC	BSS GPRS Protocol Virtual Connection	CHP	CHarging Point
BVCI	BSS GPRS Protocol Virtual Connection Identifier	CHV	Card Holder Verification information
BWT	Block Waiting Time	CI	Cell Identity
		CIM	Common Information Model
		CIR	Carrier to Interference Ratio
		CK	Cipher Key
		CKSN	Ciphering Key Sequence Number
		CLA	CLAss
		CLI	Calling Line Identity
		CLIP	Calling Line Identification Presentation
C		CLIR	Calling Line Identification Restriction
C	Conditional	CLK	Clock
C-	Control-	CLNP	Connectionless network protocol
C/R	Command/Response field bit	CLNS	Connectionless network service
CA	Capacity Allocation	CM	Connection Management
CAA	Capacity Allocation Acknowledgement	CMC	Connection Mobility Control
CAD	Card Acceptance Device	CMD	Command
CAI	Charge Advice Information	CMIP	Common Management Information Protocol
CAMEL	Customised Application for Mobile network Enhanced Logic	CMISE	Common Management Information Service
CAP	CAMEL Application Part	CMM	Channel Mode Modify
C-APDU	Command APDU	CN	Core Network
CB	Cell Broadcast	CNAP	Calling Name Presentation
CBC	Cell Broadcast Centre	CNG	Calling Tone
CBCH	Cell Broadcast CHannel	CNL	Co-operative Network List
CBMI	Cell Broadcast Message Identifier	CNTR	Counter
CBR	Constant Bit Rate	CoA	Care-of Address
CBS	Cell Broadcast Service	COLI	COConnected Line Identity
CC	Call Control	COLP	COConnected Line identification Presentation
CC/PP	Composite Capability/Preference Profiles	COLR	COConnected Line identification Restriction
CCBS	Completion of Calls to Busy Subscriber	COM	COComplete
CCCH	Common Control Channel (logical channel)	COMP	COordinated Multi-Point transmission and reception
CCF	Call Control Function	CONS	COConnection-oriented network service
CCH	Control Channel	CORBA	COCommon Object Request Broker Architecture
CCI	Capability / Configuration Identifier	CP	Cyclic Prefix (OFDM major Parameter)
CCITT	Comité Consultatif International Télégraphique et Téléphonique	CP-Admin	Certificate Present (in the MExE SIM)-Administrator
CCK	Corporate Control Key	CPCH	Common Packet Channel
CCM	Certificate Configuration Message		
CCP	Capability/Configuration Parameter		
CCPCH	Common Control Physical Channel		

CPCS	Common Part Convergence Sublayer	DHCP	Dynamic Host Configuration Protocol
C-plane	Control Plane	DHO	Diversity Handover
CPRI	Common Public Radio Interface	diff-serv	Differentiated services
CPS	Common Part Sublayer	DIMS	Dynamic and Interactive Multimedia Scenes
CP-TP	Certificate Present (in the MExE SIM)-Third Party	DISC	Disconnect
CPU	Central Processing Unit	DL	Downlink (forward link)
CQI	Channel Quality Indicator	DL	Data Layer
CRC	Cyclic Redundancy Check	DLCI	Data Link Connection Identifier
CRC	Cyclic Redundancy Check	DLD	Data Link Discriminator
CRE	Call Re-establishment procedure	DLS	Downloadable Sounds
CRNC	Controlling Radio Network Controller	DL-SCH	Downlink Shared Channel (transport channel)
C-RNTI	Cell Radio Network Temporary Identity	Dm	Control channel (ISDN terminology applied to mobile service)
C-TEID	Common Tunnel Endpoint Identifier	DM	Device Management
CS	Circuit Switched	DMR	Digital Mobile Radio
CSCF	Call Server Control Function	DMTF	Distributed Management Task Force
CSD	Circuit Switched Data	DN	Destination Network
CSE	Camel Service Environment	DNIC	Data Network Identifier
CSG	Closed Subscriber Group	DNS	Directory Name Service
CSGID	Closed Subscriber Group IDentity	DNS	Domain Name System
CS-GW	Circuit Switched Gateway	DO	Data Object
CSPDN	Circuit Switched Public Data Network	DP	Dial/Dialled Pulse
CT	Call Transfer supplementary service	DRAC	Dynamic Resource Allocation Control
CTDMA	Code Time Division Multiple Access	DRM	Digital Rights Management
CTFC	Calculated Transport Format Combination	DRNC	Drift Radio Network Controller
CTM	Cellular Text telephone Modem	DRNS	Drift RNS
C-TPDU	Command TPDU	DRoF	Digital Radio Over the Fiber
CTR	Common Technical Regulation	DRX	Discontinuous Reception
CTS	Cordless Telephony System	DSAC	Domain Specific Access Control
CUG	Closed User Group	DS-CDMA	Direct-Sequence Code Division Multiple Access
CW	Call Waiting	DSCH	Downlink Shared Channel
		DSE	Data Switching Exchange
		DSI	Digital Speech Interpolation
		DSMIPv6	Dual-Stack Mobile IPv6
		DSS1	Digital Subscriber Signalling No1
		DTAP	Direct Transfer Application Part
		DTCH	Dedicated Traffic Channel (logical channel)
		DTE	Data Terminal Equipment
		DTMF	Dual Tone Multiple Frequency
		DTX	Discontinuous Transmission
D		E	
DAC	Digital to Analog Converter	EA	External Alarms
DAD	Destination Address	eAN/PCF	Evolved Access Network Packet Control Function
DAM	DECT Authentication Module	EAP	Extensible Authentication Protocol
DB	Dummy Burst	EBSG	Elementary Basic Service Group
DC	Dedicated Control (SAP)	Ec/No	Ratio of energy per modulating bit to the noise spectral density
DCA	Dynamic Channel Allocation	ECB	Electronic Code-book
DCCH	Dedicated Control Channel (logical channel)	ECC	Emergency Call Code
DCE	Data Circuit terminating Equipment	ECM	EPS Connection Management (also called ESM)
DCF	Data Communication Function	ECM	Error Correction Mode (facsimile)
DCH	Dedicated Channel	ECSD	Enhanced CSD
DCI	Downlink Control Information	ECT	Explicit Call Transfer supplementary service
DCK	Depersonalisation Control Key		
DCN	Data Communication Network		
DCS	Data Coding Scheme		
DCS1800	Digital Cellular Network at 1800MHz		
DCT	Discrete Cosine Transform		
DDI	Direct Dial In		
DECT	Digital Enhanced Cordless Telecommunications		
DES	Data Encryption Standard		
DET	Detach		
DF	Dedicated File		
DFTS-OFDM	Direct Fourier Transform Spread – OFDM		
DHCP	Dynamic Host Configuration Protocol		

ECTRA European Committee of Telecommunications Regulatory Affairs

EDC Error Detection Code byte

EDGE Enhanced Data rates for GSM Evolution

EEA EPS (Evolved Packet System) Encryption Algorithm

EEL Electric Echo Loss

EF Elementary File (on the UICC)

EFR Enhanced Full Rate

EFS Error free seconds

E-GGSN Enhanced GGSN

EGPRS Enhanced GPRS

E-HLR Enhanced HLR

EHPLMN Equivalent Home PLMN

EIR Equipment Identity Register

EIRP Equivalent Isotropic Radiated Power

EL Echo Loss

EM Element Manager

EMC ElectroMagnetic Compatibility

eMLPP enhanced Multi-Level Precedence and Pre-emption

EMM EPS Mobility Management

EMMI Electrical Man Machine Interface

eNB Evolved Node B

Enhanced aacPlus MPEG-4 High Efficiency AAC plus MPEG-4 Parametric Stereo

eNodeB Evolved Node B

EPC Evolved Packet Core

EPCCH Enhanced Power Control Channel (GSM)

ePDG Evolved Packet Data Gateway

EPROM Erasable Programmable Read Only Memory

EPS Evolved Packet System

EPS Evolved Packet System

E-RAB E-UTRAN Radio Access Bearer

ERP Ear Reference Point

ERP Equivalent Radiated Power

ERR Error

ESI Encoding Symbol ID

ESM EPS Session Management (also called ECM)

ESP Encapsulating Security Payload

ESP Encapsulation Security Payload (RFC2406)

ETNS European Telecommunications Numbering Space

ETR ETSI Technical Report

ETS European Telecommunication Standard

ETSI European Telecommunications Standards Institute

etu elementary time unit

EUI End-User Identity

E-UTRA Evolved UTRA

E-UTRAN Evolved UTRAN

F

FA Full Allocation

FAC Final Assembly Code

FACoA Foreign Agent Care-of-Address

FAX Facsimile

FB Frequency correction Burst

FBI Feedback Information

FCI File Control Information

FCP File Control Parameter

FCS Frame Check Sequence

FDD Frequency Division Duplex

FDM Frequency Division Multiplex

FDMA Frequency Division Multiple Access

FDN Fixed Dialling Number

FDR False transmit format Detection Ratio

FDT File Delivery Table

FEC Forward Error Correction

FER Frame Erasure Rate, Frame Error Rate

FFS For Further Study

FH Frequency Hopping

FID Flow Identifier

FLO Flexible Layer One

FLUTE File deLivery over Unidirectional Transport

FM Fault Management

FMC Fixed Mobile Convergence

FN Frame Number

FNUR Fixed Network User Rate

FP Frame Protocol

FPLMN Forbidden PLMN

FQDN Fully Qualified Domain Name

FR Full Rate

FTAM File Transfer Access and Management

ftn forwarded-to number

G

GAA Generic Authentication Architecture

GBA Generic Bootstrapping Architecture

GBR Guaranteed Bit Rate

GC General Control (SAP)

GCR Group Call Register

GERAN GSM EDGE Radio Access Network

GGSN Gateway GPRS Support Node

GIF Graphics Interchange Format

GMLC Gateway Mobile Location Centre

GMM GPRS Mobility Management

GMSC Gateway MSC

GMSK Gaussian Minimum Shift Keying

GP Guard Period

GPA GSM PLMN Area

GPRS General Packet Radio Service

GRA GERAN Registration Area

GRE Generic Encapsulation

G-RNTI GERAN Radio Network Temporary Identity

GSA Global mobile Suppliers Association

GSIM GSM Service Identity Module

GSM Global System for Mobile communications

GSN GPRS Support Nodes

GT Global Title

GTP GPRS Tunneling Protocol

GTP-C GPRS Tunnelling Protocol for Control Plane

GTP-U GPRS Tunnelling Protocol for User Plane

GTT Global Text Telephony

GUMMEI Globally Unique MME Identifier

GUP 3GPP Generic User Profile

GUTI Globally Unique Temporary Identifier
 GW Gateway
 GW Gateway

H

HA Home Agent
 HANDO Handover
 H-ANDSF Home-ANDSF
 HARQ Hybrid Automatic Repeat reQuest
 HCS Hierarchical Cell Structure
 H-CSCF Home CSCF
 HDLC High Level Data Link Control
 HE Home Environment
 HE-VASP Home Environment Value Added Service Provider
 HF Human Factors
 HFN HyperFrame Number
 HHO Hard Handover
 HLC High Layer Compatibility
 HLR Home Location Register
 HN Home Network
 HO Handover
 HoA Home Address
 HOLD Call hold
 HPLMN Home Public Land Mobile Network
 HPS Handover Path Switching
 HPU Hand Portable Unit
 HR Half Rate
 HRR Handover Resource Reservation
 HSCSD High Speed Circuit Switched Data
 HSDPA High Speed Downlink Packet Access
 HSN Hopping Sequence Number
 HSS Home Subscriber Server
 HSUPA High Speed Uplink Packet Access
 HTML Hyper Text Markup Language
 HTTP Hyper Text Transfer Protocol
 HTTP Hypertext Transfer Protocol
 HTTPS Hyper Text Transfer Protocol Secure (https is http/1.1 over SSL, i.e. port 443)
 HTTPS Hypertext Transfer Protocol Secure
 HU Home Units

I

I Information frames (RLP)
 I/O Input/Output
 IA Incoming Access (closed user group SS)
 IAM Initial Address Message
 I-Block Information Block
 IC Integrated Circuit
 IC(pref) Interlock Code of the preferential CUG
 ICB Incoming Calls Barred (within the CUG)
 ICC Integrated Circuit Card
 ICCID Integrated Circuit Card IDentification
 ICGW Incoming Call Gateway
 ICI Incoming Call Information
 ICM In-Call Modification
 ICMP Internet Control Message Protocol
 ICT Incoming Call Timer
 ID Identifier
 IDL Interface Definition Language

IDN Integrated Digital Network
 IDNNS Intra Domain NAS Node Selector
 IE Information Element
 IEC International Electrotechnical Commission
 IED Information Element Data
 IEEE Institute of Electrical and Electronics Engineers
 IEI Information Element Identifier
 IEIDL Information Element Identifier Data Length
 IETF Internet Engineering Task Force
 I-ETS Interim European Telecommunications Standard Infrastructure
 IF Infrastructure
 IFD Interface Device
 IFFT Inverse Fast Fourier Transform
 IFS Information Field Sizes
 IFSC Information Field Size for the UICC
 IFSD Information Field Size for the Terminal
 IHOSS Internet Hosted Octet Stream Service
 IIOP Internet Inter-ORB Protocol
 IK Integrity key
 IKE Internet Key Exchange (RFC2409)
 IKEv2 Internet Key Exchange version 2
 IM Intermodulation
 IMA Inverse Multiplexing on ATM
 IMC IMS Credentials
 IMEI International Mobile Equipment Identity
 IMGI International mobile group identity
 IMPI IP Multimedia Private Identity
 IMPU IP Multimedia PUblic identity
 IMS IP Multimedia Subsystem
 IMSI International Mobile Subscriber Identity
 IMT-2000 International Mobile Telecommunications 2000
 IMUN International Mobile User Number
 IN Intelligent Network
 INAP Intelligent Network Application Part
 INF INFormation field
 IP Internet Protocol
 IP-CAN IP-Connectivity Access Network
 IP-M IP Multicast
 IPMS IP Mobility management Selection
 IPMS IP Mobility Mode Selection
 IPv4 Internet Protocol Version 4
 IPv6 Internet Protocol Version 6
 IR Infrared
 IRP Integration Reference Point
 ISC International Switching Centre
 ISCP Interference Signal Code Power
 ISDN Integrated Services Digital Network
 ISIM IM Services Identity Module
 ISO International Organisation for Standardisation
 ISP Internet Service Provider
 ISR Idle mode Signalling Reduction
 ISRP Inter-System Routing Policies
 ISUP ISDN User Part
 ITC Information Transfer Capability
 ITU International Telecommunication Union

ITU-T	International Telecommunications Union – Telecommunications
IUI	International USIM Identifier
IUT	Implementation Under Test
IWF	InterWorking Function
IWMSC	InterWorking MSC
IWU	Inter Working Unit

J

JAR file	Java Archive File
JCRE	Java Card™ Run Time Environment
JD	Joint Detection
JFIF	JPEG File Interchange Format
JNDI	Java Naming Directory Interface
JP	Joint Predistortion
JPEG	Joint Photographic Experts Group
JTAPI	Java Telephony Application Programming Interface
JVM	Java™ Virtual Machine

K

K	Constraint length of the convolutional code
kbps	kilo-bits per second
Kc	Ciphering key
Ki	Individual subscriber authentication key
KSI	Key Set Identifier
ksps	kilo-symbols per second

L

L1	Layer 1 (physical layer)
L2	Layer 2 (data link layer)
L2ML	Layer 2 Management Link
L2R BOP	L2R Bit Orientated Protocol
L2R COP	L2R Character Orientated Protocol
L2R	Layer 2 Relay
L3	Layer 3 (network layer)
LA	Location Area
LAC	Link Access Control (rare)
LAC	Location Area Code (more often)
LAI	Location Area Identity
LAN	Local Area Network
LAPB	Link Access Protocol Balanced
LAPDm	Link Access Protocol on the Dm channel
LATA	Local Access and Transport Area
LAU	Location Area Update
LB	Load Balancing
LCD	Low Constrained Delay
LCN	Local Communication Network
LCP	Link Control Protocol
LCS	Location Services
LCSC	LCS Client
LCSS	LCS Server
LCT	Layered Coding Transport
LE	Local Exchange
LEN	LENgth
LI	Length Indicator
LIPA	Local IP access
LLC	Logical Link Control
Lm	Traffic channel with capacity lower than a Bm
LMA	Local Mobility Anchor (PMIP)

LMSI	Local Mobile Station Identity
LMU	Location Measurement Unit
LN	Logical Name
LND	Last Number Dialed
LNS	L2TP Network Server
LPLMN	Local PLMN
LR	Location Register
LSA	Localised Service Area
LSB	Least Significant Bit
LSTR	Listener SideTone Rating
LTE	Local Terminal Emulator
LTZ	Local Time Zone
LU	Local Units
LV	Length and Value

M

M	Mandatory
MA	Mobile Allocation
MAC	Medium Access Control (protocol layering context)
MAC	Message authentication code (encryption context)
MAC-A	MAC used for authentication and key agreement (TSG T WG3 context)
MAC-I	MAC used for data integrity of signalling messages (TSG T WG3 context)
MACN	Mobile Allocation Channel Number
MAF	Mobile Additional Function
MAG	Mobile Access Gateway (PMIP)
MAH	Mobile Access Hunting supplementary service
MAHO	Mobile Assisted Handover
MAI	Mobile Allocation Index
MAIO	Mobile Allocation Index Offset
MAP	Mobile Application Part
MAPCON	Multi Access PDN Connectivity
MBMS	Multimedia Broadcast/Multicast Service
MBR	Maximum Bit Rate
MBSFN	Multicast/Broadcast over Single Frequency Network
MCC	Mobile Country Code
MCCH	Multicast Control CHannel
MCE	Multi-cell/multicast Coordination Entity
MCH	Multicast Channel (Transport Channel)
MCI	Malicious Call Identification supplementary service
MCML	Multi-Class Multi-Link PPP
Mcps	Mega-chips per second
MCS	Modulation and Coding Scheme
MCU	Media Control Unit
MD	Mediation Device
MDL	(mobile) Management (entity) - Data Link (layer)
MDS	Multimedia Distribution Service
ME	Maintenance Entity (rare)
ME	Mobile Equipment (more often)
MEF	Maintenance Entity Function
MEHO	Mobile evaluated handover
MER	Message Error Ratio
MExE	Mobile Execution Environment
MF	Master File

MGCF	Media Gateway Control Function	MTM	Mobile-To-Mobile (call)
MGCP	Media Gateway Control Part	M-TMSI	M-Temporary Mobile Subscriber Identity
MGT	Mobile Global Title	MTP	Message Transfer Part
MGW	Media GateWay	MTP3-B	Message Transfer Part level 3
MHEG	Multimedia and Hypermedia Information Coding Expert Group	MT-SMS	Mobile Terminated Short Message Service
MHS	Message Handling System	MTU	Maximum Transfer Unit
MIB	Master Information Block	MU	Mark Up
MIB	Management Information Base	MUI	Mobile User Identifier
MIC	Mobile Interface Controller	MUK	MBMS User Key
MIDI	Musical Instrument Digital Interface	MU-MIMO	Multiple User – Multiple Input Multiple Output
MIM	Management Information Model	MUMS	Multi User Mobile Station
MIME	Multipurpose Internet Mail Extensions	MVNO	Mobile Virtual Network Operator
MIMO	Multiple Input Multiple Output		
MIP	Mobile IP		
MIPS	Million Instructions Per Second	N	
MIPv4	Mobile IP version 4	NACC	Network Assisted Cell Change
MIPv6	Mobile IP version 6	NAD	Node Address byte
MLC	Mobile Location Centre	NADU	Next Application Data Unit
MM	Mobility Management	NAI	Network Access Identifier
MME	Mobility Management Entity	NAP	Network Access Provider
MMEC	Mobility Management Entity Code	NAS	Non-Access Stratum
MMI	Man Machine Interface	NB	Normal Burst
MMS	Multimedia Messaging Service	NBAP	Node B Application Part
MNC	Mobile Network Code	NBIN	A parameter in the hopping sequence
MNP	Mobile Number Portability	NBM	Network based mobility management
MO	Management Object	NCC	Network (PLMN) Colour Code
MO	Mobile Originated	NCELL	Neighbouring (of current serving) Cell
MOHO	Mobile Originated Handover	NCH	Notification CHannel
MO-LR	Mobile Originating Location Request	NCK	Network Control Key
MOS	Mean Opinion Score	NCL	Neighbour Cell List
MO-SMS	Mobile Originated Short Message Service	NCP	Network Control Protocol
MoU	Memorandum of Understanding	NDC	National Destination Code
MP	Multi-link PPP	NDUB	Network Determined User Busy
MPD	Media Presentation Description	NE	Network Element
MPEG	Moving Pictures Experts Group	NEF	Network Element Function
MPEG-2 TS	Moving Picture Experts Group Transport Stream	NEHO	Network evaluated handover
MPH	(mobile) Management (entity) - PHysical (layer) [primitive]	NET	NETwork
MPTY	MultiParTY	NEV	NEVer
MRF	Media Resource Function	NF	Network Function
MRFC	Multimedia Resource Function Controller	NIC	Network Independent Clocking
MRFP	Multimedia Resource Function Processor	NI-LR	Network Induced Location Request
MRP	Mouth Reference Point	NITZ	Network Identity and Time Zone
MS	Mobile Station	NM	Network Manager
MSB	Most Significant Bit	NMC	Network Management Centre
MSC	Mobile Switching Centre	NMO	Network Mode of Operation
MSCM	Mobile Station Class Mark	NMR	Network Measurement Results
MSCU	Mobile Station Control Unit	NMS	Network Management Subsystem
MSID	Mobile Station Identifier	NMSI	National Mobile Station Identifier
MSIN	Mobile Station Identification Number	NNI	Network-Node Interface
MSISDN	Mobile Subscriber ISDN Number	NO	Network Operator
MSK	MBMS Service Key	NP	Network Performance
MSP	Multiple Subscriber Profile	NPA	Numbering Plan Area
MSRN	Mobile Station Roaming Number	NPI	Numbering Plan Identifier
MT	Mobile Termination	NRI	Network Resource Identifier
MTC	Machine-Type Communications	NRM	Network Resource Model
MTCH	Multicast Traffic CHannel	NRT	Non-Real Time
MTK	MBMS Traffic Key	NSAP	Network Service Access Point
MT-LR	Mobile Terminating Location Request	NSAPI	Network Service Access Point Identifier
		NSCK	Network Subset Control Key
		NSDU	Network service data unit
		NSP	Network Service Provider

NSS	Network Sub System
NT	Network Termination
Nt	Notification (SAP)
NTAAB	New Type Approval Advisory Board
NTDD	Narrow-band Time Division Duplexing
NUA	Network User Access
NUI	National User / USIM Identifier
NUP	National User Part (SS7)
NW	Network

O

O	Optional
O&M	Operations & Maintenance
OA	Outgoing Access (CUG SS)
OACSU	Off-Air-Call-Set-Up
OCB	Outgoing Calls Barred within the CUG
OCF	Open Card Framework
OCI	Outgoing Call Information
OCNS	Orthogonal Channel Noise Simulator
OCT	Outgoing Call Timer
OD	Optional for operators to implement for their aim
ODB	Operator Determined Barring
OFDM	Orthogonal Frequency Division Multiplexing
OFDMA	Orthogonal Frequency Division Multiple Access
OMA	Open Mobile Alliance
OMC	Operation and Maintenance Centre
OML	Operations and Maintenance Link
OR	Optimal Routeing
ORLCF	Optimal Routeing for Late Call Forwarding
OS	Operations System
OSA	Open Service Access
OSI RM	OSI Reference Model
OSI	Open System Interconnection
OSP	Octet Stream Protocol
OSP:IHOSS	Octet Stream Protocol for Internet Hosted Octet Stream Service
OTA	Over-The-Air
OTP	One Time Password
OVSF	Orthogonal Variable Spreading Factor

P

PABX	Private Automatic Branch eXchange
PAD	Packet Assembler/Disassembler
PAP	Password Authentication Protocol
PAR	Peak to Average Ratio
PBCH	Physical Broadcast Channel (LTE)
PBID	PhoneBook IDentifier
PBP	Paging Block Periodicity
PBX	Private Branch eXchange
PC	Power Control
PCB	Protocol Control Byte
PCCC	Parallel Concatenated Convolutional Code
PCCH	Paging Control Channel (logical channel)
PCDE	Peak Code Domain Error
PCEF	Policy and Charging Enforcement Function

PCFICH	Physical Control Format Indicator Channel (LTE)
PCG	Project Co-ordination Group
PCH	Paging Channel
PCK	Personalisation Control Key
PCM	Pulse Code Modulation
PCMCIA	Personal Computer Memory Card International Association
PCO	Protocol Configuration Options
PCO	Protocol Configuration Options
PCRF	Policy and Charging Rules Function
PCS	Personal Communication System
PCU	Packet Control Unit
PD	Protocol Discriminator
PDCCCH	Physical Downlink Control CHannel (LTE & GPRS)
PDCF	Packetized DRM Content Format
PDCP	Packet Data Convergence Protocol
PDH	Plesiochronous Digital Hierarchy
PDN	Packet Data Network
PDN-GW	Packet Data Network Gateway (also called PGW)
PDP	Packet Data Protocol
PDSCH	Physical Downlink Shared CHannel (LTE)
PDU	Protocol Data Unit
PDU	Protocol Data Unit
PG	Processing Gain
P-GW or PGW	Packet Data Network Gateway (also called PDN-GW)
PH	Packet Handler
PHF	Packet Handler Function
PHI	Packet Handler Interface
PHICH	Physical Hybrid ARQ Indicator Channel (LTE)
PHS	Personal Handyphone System
PHY	Physical layer
PhyCH	Physical Channel
PHysical (layer)	PHysical (layer)
PI	Page Indicator
PICH	Page Indicator Channel
PICS	Protocol Implementation Conformance Statement
PID	Packet Identification
PIN	Personal Identification Number
PIXT	Protocol Implementation eXtra information for Testing
PKCS	Public-Key Cryptography Standards
PL	Preferred Languages
PLMN	Public Land Mobile Network
PMCH	Physical Multicast CHannel
PMCH	Physical Multicast Channel
PMD	Physical Media Dependent
PMIP	Proxy Mobile Internet Protocol
PMIP/PMIPv6	Proxy Mobile IP version 6
PN	Pseudo Noise
PNE	Présentation des Normes Européennes
PNG	Portable Networks Graphics
PNP	Private Numbering Plan
POI	Point Of Interconnection (with PSTN)
PoR	Proof of Receipt
POTS	Plain Old Telephony Service
PP	Point-to-Point
PPCH	Packet Paging Channel (GPRS)

PPE	Primitive Procedure Entity	R-APDU	Response APDU
PPF	Paging Proceed Flag	RA-RNTI	Random Access RNTI
PPM	Parts Per Million	RAT	Radio Access Technology
PPP	Point-to-Point Protocol	RAU	Routing Area Update
PPS	Protocol and Parameter Select (response to the ATR)	RB	Radio Bearer (UMTS)
PRACH	Physical Random Access CHannel (LTE)	RB	Resource Block (LTE)
PRB	Physical Resource Block	RBER	Residual Bit Error Ratio
Pref CUG	Preferential CUG	R-Block	Receive-ready Block
PS	Packet Switched	RDF	Resource Description Format
PSC	Primary Synchronisation Code	RDF	Resource Description Framework
PSCH	Physical Shared Channel	RDI	Restricted Digital Information
PSE	Personal Service Environment	REC	RECommendation
PSPDN	Packet Switched Public Data Network	REJ	REJect(ion)
PSS	Packet Switch Streaming	REL	RELease
PSS	Packet-switched Streaming Service	REQ	REQuest
PSS	Primary Synchronisation Sequence	RES	user RESponse
PSTN	Public Switched Telephone Network	RF	Radio Frequency
PTCCH	Packet Timing advance Control Channel	RF	Radio Frequency
PTM	Point-to-Multipoint	RFC	Request For Comments
PTM-G	PTM Group Call	RFC	Request For Comments
PTM-M	PTM Multicast	RFCH	Radio Frequency CHannel
P-TMSI	Packet TMSI	RFE	Routing Functional Identity
PTP	Point to point	RFN	Reduced TDMA Frame Number
PU	Payload Unit	RFU	Reserved for Future Use
PUCCH	Physical Uplink Control CHannel (LTE)	RIM	RAN Information Management
PUCT	Price per Unit Currency Table	RL	Radio Link
PUK	PIN Unblocking Key	RLC	Radio Link Control
PUSCH	Physical Uplink Shared Channel (LTE)	RLCP	Radio Link Control Protocol
PVC	Permanent Virtual Circuit	RLP	Radio Link Protocol
PW	Pass Word	RLR	Receiver Loudness Rating
		RLS	Radio Link Set
		RMS	Root Mean Square (value)
		RNC	Radio Network Controller
		RNL	Radio Network Layer
		RNS	Radio Network Subsystem
		RNSAP	Radio Network Subsystem Application Part
		RNTI	Radio Network Temporary Identity
		ROHC	Robust Header Compression
		RPLMN	Registered Public Land Mobile Network
		RPOA	Recognised Private Operating Agency
		RR	Radio Resources
		RRC	Radio Resource Control
		RRH	Remote Radio Head
		RRM	Radio Resource Management
		RSA	Algorithm invented by Rivest, Adleman and Shamir
		RSCP	Received Signal Code Power
		RSE	Radio System Entity
		R-SGW	Roaming Signalling Gateway
		RSL	Radio Signalling Link
		RSSI	Received Signal Strength Indicator
		RST	Reset
		RSVP	Resource ReserVation Protocol
		RSZI	Regional Subscription Zone Identity
		RT	Real Time
		RTCP	RTP Control Protocol
		RTE	Remote Terminal Emulator
		RTP	Real Time Protocol
		RTP	Real-Time Transport Protocol
		R-TPDU	Response TPDU
		RTSP	Real-Time Streaming Protocol
		RU	Resource Unit
		RWB	Resolution Bandwidth
Q			
QA	Q (Interface) - Adapter		
QAF	Q - Adapter Function		
QAM	Quadrature Amplitude Modulation		
QCI	QoS Class Identifier		
QCIF	Quarter Common Intermediate Format		
QoS	Quality of Service		
QPSK	Quadrature (Quaternary) Phase Shift Keying		
R			
R99	Release 1999		
RA	Routing Area		
RAB	Radio Access Bearer		
RAC	Routing Area Code		
RACH	Random Access Channel (transport channel)		
	Radio Frequency Channel		
RADIUS	Remote Authentication Dial In User Service		
RAI	Routing Area Identity		
RAN	Radio Access Network		
RANAP	Radio Access Network Application Part		
RAND	RANDom number (used for authentication)		
RAP	Random Access Point		

RX	Receive	SIP	Session Initiation Protocol
RXLEV	Received signal level	SIPTO	Selective IP Traffic Offload
RXQUAL	Received Signal Quality	SIR	Signal-to-Interference Ratio
S		SLA	Service Level Agreement
S1-MME	S1 for the control plane	SLPP	Subscriber LCS Privacy Profile
S1-U	S1 for the user plane	SLR	Send Loudness Rating
SAAL	Signalling ATM Adaptation Layer	SLTM	Signalling Link Test Message
SABM	Set Asynchronous Balanced Mode	SM	Session Management
SAD	Source Address	SMDS	Switched Multimegabit Data Service
SAE	System Architecture Evolution	SME	Short Message Entity
S-AP	Application Protocol on the S1 interface	SMG	Special Mobile Group
SAP	Service Access Point	SMI	Structure of Management Information (RFC 1155)
SAPI	Service Access Point Identifier	SMIL	Synchronised Multimedia Integration Language
SAR	Segmentation and Reassembly	SMLC	Serving Mobile Location Centre
SAT	SIM Application Toolkit	SMS	Short Message Service
SB	Synchronization Burst	SMS-CB	SMS Cell Broadcast
S-Block	Supervisory Block	SMS-PP	Short Message Service/Point-to-Point
SBLP	Service Based Local Policy	SMS-SC	Short Message Service - Service Centre
SBSC	Serving Base Station Controller	SN	Serial Number
SBSS	Serving Base Station Subsystem	SNDCP	Sub-Network Dependent Convergence Protocol
SC	Service Centre (used for SMS)	SNMP	Simple Network Management Protocol
SCCP	Signalling Connection Control Part	SNR	Signal to Noise Ratio
SCF	Service Control Function (IN context), Service Capability Feature (VHE/OSA context)	SOA	Suppress Outgoing Access (CUG SS)
SC-FDMA	Single Carrier – Frequency Division Multiple Access (other name : DFTS-OFDM)	SoLSA	Support of Localised Service Area
SCH	Synchronisation Channel	SON	Self Organised Network
SCI	Subscriber Controlled Input	SP	Switching Point
SCN	Sub-Channel Number	SPC	Signalling Point Code
SCP	Service Control Point	SPCK	Service Provider Control Key
S-CSCF	Serving CSCF	SPI	Security Parameters Index
SCTP	Stream Control Transmission Protocol	SPI	Security Parameters Indication
SCUDIF	Service Change and UDI/RDI Fallback	SPID	Subscriber Profile ID
SDF	Service Data Flow	SP-MIDI	Scalable Polyphony MIDI
SDH	Synchronous Digital Hierarchy	SQN	Sequence number
SDL	Specification Description Language	SR	Scheduling Request
SDMA	Spatial Division Multiple Access	SRB	Signalling Radio Bearer
SDN	Service Dialling Number	SRES	Signed REsponse (authentication value returned by the SIM or by the USIM in 2G AKA)
SDP	Service Discovery Protocol (Bluetooth related)	SRNC	Serving Radio Network Controller
SDP	Session Description Protocol	SRNS	Serving RNS
SDT	SDL Development Tool	S-RNTI	SRNC Radio Network Temporary Identity
SDU	Service Data Unit	SRTT	The Secure Real-time Transport Protocol
SE	Security Environment	SS	Supplementary Service
SectorID	Sector Address Identifier	SS7	Signalling System No. 7
SEF	Support Entity Function	SSC	Secondary Synchronisation Code
SF	Spreading Factor	SSCF	Service Specific Co-ordination Function
SFH	Slow Frequency Hopping	SSCF-NNI	Service Specific Coordination Function – Network Node Interface
SFI	Short EF Identifier	SSCOP	Service Specific Connection Oriented Protocol
SFN	System Frame Number	SSCS	Service Specific Convergence Sublayer
SGSN	Serving GPRS Support Node	SSDT	Site Selection Diversity Transmission
SGW (S-GW)	Serving Gateway	SSE	Service Specific Entities
SI	Screening Indicator	SSF	Service Switching Function
SIB	Signalling Information Block	SSM	Source Specific Multicast
SIC	Service Implementation Capabilities	SSN	Sub-System Number
SID	Silence Descriptor		
SIM	Subscriber Identity Module		
SINR	Signal-to-Noise-and-Interference Ratio		

SSSAR	Service Specific Segmentation and Re-assembly sublayer
STC	Signalling Transport Converter
STMR	SideTone Masking Rating
S-TMSI	S-Temporary Mobile Subscriber Identity (M-TMSI+MMEC)
STP	Signalling Transfer Point
STTD	Space Time Transmit Diversity
SU	Scheduling Unit
SuM	Subscription Management
SU-MIMO	Single User – Multiple Input Multiple Output
SVC	Switched virtual circuit
SVG	Scalable Vector Graphics
SVN	Software Version Number
SW	Status Word
SW1/SW2	Status Word 1/Status Word 2
	System Simulator

T

T	Timer
TA	Timing Advance
TA	Tracking Area
TAC	Type Approval Code
TAF	Terminal Adaptation Function
TAI	Tracking Area identity
TAR	Toolkit Application Reference
TAU	Tracking Area Update
TB	Transport Block
TBF	Temporary Block Flow
TBR	Technical Basis for Regulation
TBS	Transport Block Size
TC	Transaction Capabilities
TCI	Transceiver Control Interface
TCP	Transmission Control Protocol
TC-TR	Technical Committee Technical Report
TD-CDMA	Time Division-Code Division Multiple Access
TDD	Time Division Duplex
TDMA	Time Division Multiple Access
TE	Terminal Equipment
TEID	Tunnel End Point Identifier
TF	Transport Format
TFA	TransFer Allowed
TFC	Transport Format Combination
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFI	Temporary Flow Identity
TFI	Transport Format Indicator
TFIN	Transport Format INdicator
TFP	TransFer Prohibited
TFS	Transport Format Set
TFT	Traffic Flow Template
TI	Transaction Identifier
TLLI	Temporary Logical Link Identity
TLS	Transport Layer Security
TLV	Tag Length Value
TM	Telecom Management
TM	Transparent Mode
TMF	Telecom Management Forum
TMGI	Temporary Mobile Group Identity
TMN	Telecom Management Network

TMSI	Temporary Mobile Subscriber Identity
TN	Termination Node
TNL	Transport Network Layer
TOA	Time of Arrival
TOI	Transport Object Identifier
TP	Third Party
TPC	Transmit Power Control
TPDU	Transfer Protocol Data Unit
TR	Technical Report
TRAU	Transcoder and Rate Adapter Unit
TrCH	Transport Channel
TRX	Transceiver
TS	Technical Specification
TS	Time Slot
TSC	Training Sequence Code
TSDI	Transceiver Speech & Data Interface
TSG	Technical Specification Group
T-SGW	Transport Signalling Gateway
TSI	Transport Session Identifier
TSTD	Time Switched Transmit Diversity
TTI	Transmission Time Interval
TUP	Telephone User Part (SS7)
TV	Type and Value
TX	Transmit
TXPWR	Transmit PoWeR;

U

UAPProf	User Agent Profile
UARFCN	UTRA Absolute Radio Frequency Channel Number
UARFN	UTRA Absolute Radio Frequency Number
UART	Universal Asynchronous Receiver and Transmitter
UCS-2	Universal Character Set (the two octet form)
UCS2	Universal Character Set 2
UDCH	User-plane Dedicated CHannel
UDD	Unconstrained Delay Data
UDI	Unrestricted Digital Information
UDP	User Datagram Protocol
UDUB	User Determined User Busy
UE	User Equipment
UE-AMBR	UE-Aggregate Maximum Bitrate
UE _R	User Equipment with ODMA relay operation enabled
UI	Unnumbered Information (Frame)
UI	User Interface
UIA	3G Integrity Algorithm
UIC	Union Internationale des Chemins de Fer
UICC	Universal Integrated Circuit Card
UL	Uplink (Reverse Link)
UL-SCH	Uplink Shared Channel (transport channel)
UM	Unacknowledged Mode
UML	Unified Modelling Language
UMS	User Mobility Server
UMSC	UMTS Mobile Services Switching Centre
UMTS	Universal Mobile Telecommunications System
UNI	User-Network Interface
UP	User Plane

UPCMI	Uniform PCM Interface (13-bit)	WS	Work Station
UPD	Up to date	WSP	Wireless Session Protocol
U-plane	User plane	WTDD	Wideband Time Division Duplexing
UPT	Universal Personal Telecommunication	WTLS	Wireless Transport Layer Security
URA	UTRAN Registration Area	WTP	Wireless Transaction Protocol
URB	User Radio Bearer	WWW	World Wide Web
URI	Uniform Resource Identifier		
URI	Uniform Resource Identifier	X	
URL	Uniform Resource Locator	X2-C	X2-Control plane
URL	Uniform Resource Locator	X2-U	X2-User plane
U-RNTI	UTRAN Radio Network Temporary Identity	XHTML	eXtensible Hyper Text Markup Language
USAT	USIM Application Toolkit	XID	eXchange IDentifier
USB	Universal Serial Bus	XMAC	exXpected Message Authentication Code
USC	UE Service Capabilities		
USCH	Uplink Shared Channel	XMF	eXtensible Music Format
USF	Uplink State Flag	XML	eXtensible Markup Language
USIM	Universal Subscriber Identity Module	XML	eXtensible Markup Language
USSD	Unstructured Supplementary Service Data	XRES	EXpected user RESponse
UT	Universal Time	XSLT	eXtensible Stylesheet Language Transformation
UTC	Universal Time Coordinated		
UTF-8	Unicode Transformation Format (the 8-bit form)	Y	
UTRA	Universal Terrestrial Radio Access	Z	
UTRAN	Universal Terrestrial Radio Access Network	ZC	Zone Code
UU	User-to-User Signalling		
UUI	User-to-User Information		
UUS	Uu Stratum		

V

V	Value only
V(SD)	Send state variable
VA	Voice Activity factor
VAD	Voice Activity Detection
V-ANDSF	Visited-ANDSF
VAP	Videotex Access Point
VASP	Value Added Service Provider
VBR	Variable Bit Rate
VBS	Voice Broadcast Service
VC	Virtual Circuit
VGCS	Voice Group Call Service
VHE	Virtual Home Environment
VLR	Visitor Location Register
VMSC	Visited MSC
VoIMS	Voice over IMS
VoIP	Voice Over IP
VPLMN	Visited Public Land Mobile Network
VPN	Virtual Private Network

W

W3C	WWW Consortium
WAE	Wireless Application Environment
WAP	Wireless Application Protocol
WCDMA	Wideband Code Division Multiple Access
WDP	Wireless Datagram Protocol
WG	Working Group
WIM	Wireless Identity Module
WIN	Wireless Intelligent Network
WLAN UE	WLAN User Equipment
WLAN	Wireless Local Area Network
WPA	Wrong Password Attempts (counter)

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