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Technical Specification

GEO-Mobile Radio Interface Specifications (Release 2) General Packet Radio Service; Part 1: General specifications; Sub-part 1: Abbreviations and acronyms; GMPRS-1 01.004



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Foreword

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The present document is part 1, sub-part 1 of a multi-part deliverable covering the GEO-Mobile Radio Interface Specifications (Release 2) General Packet Radio Service, as identified below:

Part 1: "General specifications":

Sub-part 1: "Abbreviations and acronyms";

Sub-part 2: "Introduction to the GMR-1 family";

Sub-part 3: "General System Description";

- Part 2: "Service specifications";
- Part 3: "Network specifications";
- Part 4: "Radio interface protocol specifications";
- Part 5: "Radio interface physical layer specifications";
- Part 6: "Speech coding specifications";
- Part 7: "Terminal adaptor specifications".

Introduction

GMR stands for GEO (Geostationary Earth Orbit) Mobile Radio interface, which is used for mobile satellite services (MSS) utilizing geostationary satellite(s). GMR is derived from the terrestrial digital cellular standard GSM and supports access to GSM core networks.

The present document is part of the GMR Release 2 specifications. Release 2 specifications are identified in the title and can also be identified by the version number:

- Release 1 specifications have a GMR-1 prefix in the title and a version number starting with "1" (V1.x.x.).
- Release 2 specifications have a GMPRS-1 prefix in the title and a version number starting with "2" (V2.x.x.).

The GMR release 1 specifications introduce the GEO-Mobile Radio interface specifications for circuit mode mobile satellite services (MSS) utilizing geostationary satellite(s). GMR release 1 is derived from the terrestrial digital cellular standard GSM (phase 2) and it supports access to GSM core networks.

The GMR release 2 specifications add packet mode services to GMR release 1. The GMR release 2 specifications introduce the GEO-Mobile Packet Radio Service (GMPRS). GMPRS is derived from the terrestrial digital cellular standard GPRS (included in GSM Phase 2+) and it supports access to GSM/GPRS core networks.

Due to the differences between terrestrial and satellite channels, some modifications to the GSM standard are necessary. Some GSM specifications are directly applicable, whereas others are applicable with modifications. Similarly, some GSM specifications do not apply, while some GMR specifications have no corresponding GSM specification.

Since GMR is derived from GSM, the organization of the GMR specifications closely follows that of GSM. The GMR numbers have been designed to correspond to the GSM numbering system. All GMR specifications are allocated a unique GMR number. This GMR number has a different prefix for Release 2 specifications as follows:

- Release 1: GMR-n xx.zyy.
- Release 2: GMPRS-n xx.zyy.

where:

- xx.0yy (z = 0) is used for GMR specifications that have a corresponding GSM specification. In this case, the numbers xx and yy correspond to the GSM numbering scheme.
- xx.2yy (z = 2) is used for GMR specifications that do not correspond to a GSM specification. In this case, only the number xx corresponds to the GSM numbering scheme and the number yy is allocated by GMR.
- n denotes the first (n = 1) or second (n = 2) family of GMR specifications.

A GMR system is defined by the combination of a family of GMR specifications and GSM specifications as follows:

- If a GMR specification exists it takes precedence over the corresponding GSM specification (if any). This precedence rule applies to any references in the corresponding GSM specifications.
- NOTE: Any references to GSM specifications within the GMR specifications are not subject to this precedence rule. For example, a GMR specification may contain specific references to the corresponding GSM specification.
- If a GMR specification does not exist, the corresponding GSM specification may or may not apply. The applicability of the GSM specifications is defined in GMPRS-1 01.201 [2].

1 Scope

The present document describes abbreviations and acronyms to be used throughout the GMR-1 Release 2 specifications. These abbreviations and acronyms include and extend the abbreviations and acronyms in the corresponding Release 1 specification [1].

All abbreviations are presented in the singular, but are equally applicable to the plural.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

[1] GMR-1 01.004 (ETSI TS 101 376-1-1): "GEO-Mobile Radio Interface Specifications; Part 1: General specifications; Sub-part 1: Abbreviations and acronyms".

NOTE: This is a reference to a GMR-1 Release 1 specification. See the introduction for more details.

[2] GMPRS-1 01.201 (ETSI TS 101 376-1-2): "GEO-Mobile Radio Interface Specifications (Release 2) General Packet Radio Service; Part 1: General specifications; Sub-part 2: Introduction to the GMR-1 family".

3 Abbreviations and acronyms

For the purposes of the present document, the following abbreviations and acronyms apply:

Α

A3	Authentication algorithm A3
A38	A single algorithm performing the functions of A3 & A8
A5/1	Encryption algorithm A5/1
A5/2	Encryption algorithm A5/2
A5-GMR-1	Cipher algorithm A5-GMR-1 (used for ciphering/deciphering data)
A5/X	Encryption algorithm A5/0-7
A8	Ciphering key generating algorithm A8
A-BCCH	Anchor-BCCH
AB	Access Burst
ABM	Asynchronous Balance Mode
ABM	Asymmetric Balance Mode
AC	Access Class (C0 to C15)
AC	Application Context
ACC	Automatic Congestion Control
ACC	ACCept
ACCH	Associated Control CHannel
ACCH/FA	Associated Control CHannel/Full Allocation
ACK	ACKnowledgment
ACK	ACKnowledge
ACM	Accumulated Call Meter

ACM	Address Complete Message
ACU	Antenna Combining Unit
ADC	ADministration Center
ADC	Analog to Digital Converter
ADN	Abbreviated Dialling Number
ADPCM	Adaptive Differential Pulse Code Modulation
AE	Application Entity
AEC	Acoustic Echo Control
AEF	Additional Elementary Functions
AGCH	Access Grant CHannel
Ai	Action indicator
ANM	ANswer Message
AoC	Advice of Charge
AOC	Advanced Operation Center
AoCC	Advice of Charge Charging supplementary service
AoCI	Advice of Charge Information supplementary service
ASE	Application Service Element
ASN.1	Abstract Syntax Notation One
ARFCN	Absolute Radio Frequency Channel Number
ARQ	Automatic Repeat reQuest
ASD	Accelerated Special Density
ASFC	Alerting Signaling Failure Counter
AT	Access Terminal
Ata	Access terminal, country a
Atb	Access terminal, country b
Atc	Access terminal, country c
AT-BSS	Access Terminal-Base Station Subsystem
AT-GSS	Access Terminal-Gateway Station Subsystem
ATI	Any Time Interrogation
ATT (flag)	ATTach
AU	Access Unit
AuC	Authentication Center
AUT(H)	AUThentication
AWGN	Additive White Gaussian Noise

В

BA	BCCH Allocation
BACH	Broadcasting Alert CHannel
BACH	Broadcast Alerting CHannel
BACH	Basic Alerting CHannel
BAIC	Barring of All Incoming Calls supplementary service
BAOC	Barring of All Outgoing Calls supplementary service
BCC	BTS Color Code
BCCH	Broadcast Control CHannel
BCD	Binary Coded Decimal
BCF	Base station Control Function
BCIE	Bearer Capability Information Element
BCS	Binary Coded Signalling
BCS	Block Check Sequence
BEC	Backward Error Correction
BER	Bit Error Rate
BFI	Bad Frame Indication
BI	all Barring of Incoming call supplementary services
BIC-Roam	Barring of Incoming Calls when Roaming outside the home PLMN Country supplementary service
BIIC	Barring of Incoming International Call
Bm	Full-rate traffic channel
BN	Bit Number
BO	all Barring of Outgoing call supplementary services
BOIC	Barring of Outgoing International Calls supplementary service

BSSOMAP

BTS

BOIC-exHC Barring of Outgoing International Calls except those directed to the Home PLMN Country supplementary service BS Bearer Services Base Station BS Basic Service (group) BS Base Station Controller BSC **Basic Service Group** BSG BSIC Base transceiver Station Identity Code **BSIC-NCELL** BSIC of an adjacent cell BSN Block Sequence Number BSS Base Station System BSSAP Base Station System Application Part BSSMAP Base Station Subsystem Management Application Part

Base Station System Operation and Maintenance Application Part

Base Transceiver Station

8

С

С	Conditional
ĊA	Cell Allocation
CAI	Common Air Interface
CAI	Charge Advice Information
CB	Call Barring
CBC	Cell Broadcast Center
CBCH	Cell Broadcast CHannel
CBCH	Call Broadcast CHannel
CBF	Control Block Follows
CBMI	Cell Broadcast Message Identifier
CC	Country Code
CC	Circuit-switched Calls
CC	Call Control
CC/NDC	Country Code/Network Destination Code
CCBS	Completion of Calls to Busy Subscriber supplementary service
CCCH	Common Control CHannel
CCF	Conditional Call Forwarding
CCH	Control CHannel
CCM	Current Call Meter
CCP	Capability/Configuration Parameter
CCPE	Control Channel Protocol Entity
CCS7	CCITT Signalling System No. 7
Cct	Circuit
CDR	Call Data Record
CDUR	Chargeable DURation
CED	CallED station identifier
CEIR	Central Equipment Identity Register
CEND	END of charge point
CEPT	Conférence des administrations Européennes des Postes et Telecommunications
CF	Conversion Facility
CF	all Call Forwarding services
CF	Control Flag
CFB	Call Forwarding on mobile subscriber Busy supplementary service
CFNRc	Call Forwarding on mobile subscriber Not Reachable supplementary service
CFNRy	Call Forwarding on mobile subscriber No Reply supplementary service
CFU	Call Forwarding Unconditional supplementary service
CGI	Cell Group Identifier
CGI	Cell Global Identification
CHP	CHarging Point
CHV	Card Holder Verification
C/I	Carrier-to-Interference
CI	Cell Identity
CI	CUG Index
CICH	Common Idle CHannel

ETSI

CIP		Call In Progress
CIR		Channel Interference Ratio
CKSI	N	Ciphering Key Sequence Number
CLI		Calling Line Identity
CLIP		Calling Line Identification Presentation supplementary service
CLIR	_	Calling Line Identification Restriction supplementary service
CM		Connection Management
CMD)	CoMmanD
CMM	1	Channel Mode Modify
CNG		CalliNG tone
CNG		Comfort Noise Generation
COLI		COnnected Line Identity
COLI		COnnected Line identification Presentation supplementary service
COLI		COnnected Line identification Restriction supplementary service
COM		COMplete
COM		COMPlete
COM		CONNect
	NACK	CONNect ACKnowledgment
CPI	MACK	Current Position Indicator
CQPS	SV	Coherent Quadrature Phase-Shift Keying
CQL	ы	Channel Request
CR C/R		
		Command/Response bit
C/R		Command/Response field bit
CRC		Cyclic Redundancy Check
CRE		Call RE-establishment procedure
CS		Coding Scheme
CSN		Compact Syntax Notation
CSN		Check Sum Number
CSPE	DN	Circuit Switched Public Data Network
CT		Call Transfer supplementary service
CT		Channel Tester
CT		Channel Type
CTR		Common Technical Regulation
CU		Channel Unit
CUG		Closed User Group
CUG		Closed User Group supplementary service
CW		Call Waiting
CW		Call Waiting supplementary service)
_		
D		
DAC		Digital to Analogue Converter
dB		deciBel
DB		Dummy Burst
DC2		two-slot Downlink Control
DC6		six-slot Downlink Control
DCC	н	Dedicated Control CHannel
DCE		Data Circuit terminating Equipment
DCF		Data Communication Function
DCN		Data Communication Network
DCSI		Digital Cellular System at 1 800 MHz
DESI		DETach
DISC	1	DISConnect
DISC		Dual Keep-Alive-Burst
DKA DL	Ч	Data Link
DL DL		Data Link Data Link layer
DL	r	Data Link Tayer Data Link Connection Identifier
DLCI		Data Link Connection Identifier
Dm		Control Channel (ISDN terminology applied to mobile service)

- DM Disconnect Mode
- DMHTDual Mode Hold TimerDMRDigital Mobile Radio

DNIC	Digital Network Identifier Control
DP	Dial (or Dialled Pulse)
DRX	Discontinuous Reception
DRX	Discontinuous Reception mechanism
DSE	Data Switch Exchange
DSI	Digital Speech Interpolation
DSS1	Digital Subscriber Signaling no. 1
DTAP	Direct Transfer Application Part
DTE	Data Terminal Equipment
DTMF	Dual Tone MultiFrequency
DTMF	Dual Tone MultiFrequency signaling
DTX	Discontinuous Transmission
DTX	Discontinuous Transmission mechanism)

Ε

•	
EA	External Alarms
EA	Extended Address
EBSG	Elementary Basic Service Group
Ec/No	Ratio of Energy per modulating bit to the Noise spectral density
ECM	Error Correction Mode (facsimile)
ECT	Explicit Call Transfer supplementary service
EEL	Electronic Echo Loss
EIA	Electronics Industries Association
EIR	Equipment Identity Register
EIRP	Effective Isotropic Radiated Power
EL	Echo Loss
EMC	ElectroMagnetic Compatibility
eMLPP	enhanced Multi-Level Precedence and Pre-emption service
EMMI	Electrical Man Machine Interface
EPROM	Erasable Programmable Read Only Memory
ERP	Ear Reference Point
ERP	Equivalent Radiated Power
ERR	ERRor
EST	European Standard Telecommunications
ETR	ETSI Technical Report
ETS	European Telecommunication Standard
ETSI	European Telecommunications Standards Institute

F

FA	Full Allocation
	Fax Adapter
FA/IWF	Fax Adaptor located at IWF side
FA/MT	Fax Adaptor integrated with the MT
FAC	Final Assembly Code
FACCH	Fast-Associated Control CHannel
FACCH	Fast Access Control CHannel
FACCH/F	Fast Associated Control CHannel/Full rate
FACCH/H	Fast Associated Control CHannel/Half rate
FACCHN	Fast Access Control CHaNnel
FAI	Final Acknowledgement Indicator
FB	Frequency correction Burst
FBI	Final Block Indicator
FC	Frequency Correction
FCCH	Frequency Correction CHannel
FCCH	Frequency Control CHannel
FC	Frequency Correction
FCS	Frame Check Sequence
FDM	Frequency Division Multiplexing
FDN	Fixed Dialing Number
FEC	Forward Error Correction
FER	Frame Erasure Ratio

FER	Frame Error Rate
FH	Frequency Hopping
FN	Frame Number
FR	Full Rate
FT	Fixed Terminal
ftn	forwarded-to number

G

GBCH	GPS Broadcast CHannel
GCI	GPS Capability Indicator
GCR	Group Call Register
GEMTM	GeoMobile (satellite system)
GEO	Geostationary Earth Orbit
GF	Galois Field
GGSN	Gateway GPRS Support Node
GMM	GPRS Mobility Management
GMPRS	GEO-Mobile Packet Radio Service
GMR	GEO-Mobile Radio interface
GMR-1	GEO-Mobile Radio interface - family 1
GMSC	Gateway Mobile-service Switching Center
GMSK	Gaussian Minimum Shift Keying (modulation)
GP	Global Positioning
GPA	GSM PLMN Area
GPRS	General Packet Radio Service
GPS	Global Positioning System
GREJ	Group REJect
GS	Gateway Station
Gsa	Gateway Station a
GSA	GSM System Area
GSb	Gateway Station b
GSc	Gateway Station c
GS(o)	Ground Station, originating
GS(t)	Ground Station, terminating
GSC	Gateway Station Controller (network element)
GSC	GMR-1 Security Custodian (used in security schemes)
GSM	Global System for Mobile communications
GSM MES	GSM Mobile Earth Station
GSM PLMN	GSM Public Land Mobile Network
GSS-MSC	Gateway Station Subsystem-Mobile Switching Center
GSTN	General Switched Telephone Network
GtT	Gateway-to-Terminal call
GT	Global Title
G/T	Gain/Temperature
GTS	Gateway Transceiver Station

Η

HANDO	HANDOver
HDLC	High-level Data Link Control
HHT	HandHeld Terminal
HLC	High Layer Compatibility
HLR	Home Location Register
HNS	Hughes Network Systems
HPA	High-Penetration Alerting
HPLMN	Home Public Land Mobile Network
HPU	Hand Portable Unit
HR	Half Rate
HSN	Half-Symbol Number
HSN	Hopping Sequence Number
HSP	Home Service Provider
HU	Home Units
Hz	Hertz

I

Ι	Information frames (RLP)
IA	Incoming Access (closed user group SS)
IAM	Initial Address Message
IAR	Immediate Assignment Reject
IAR	Immediate Assignment Request
IC	Interlock Code (CUG SS)
ICB	Incoming Calls Barred (within the CUG)
IC(pref)	Interlock Code of the preferential CUG
ICC	Integrated Circuit(s) Card
ICM	In-Call Modification
ID	IDentification
IDN	Integrated Digital Network
IE	Information Element
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
IEI	Information Element Identifier
IMEI	International Mobile Equipment Identity
IMM	IMMediate assignment message
IMSI	International Mobile Subscriber Identity
IN	Interrogating Node
INCS	IntraNetwork Communication Subsystem
ISC	International Switching Center
ISDN	Integrated Services Digital Network
ISO	International Standards Organization
ISUP	ISDN User Part (of signaling system No. 7)
ITC	Information Transfer Capability
ITR	Immediate Termination Request
ITU	International Telecommunication Union
IWF	InterWorking Function
IWMSC	InterWorking MSC
IWU	InterWorking Unit
	c

Κ

gth of the convolutional code
urst
econd
7
pted with ciphering key Kc
ed with ciphering key Kc
associated with a session key
-
scriber authentication Key

L

Layer 1
Layer 2 Management Link
Layer 2 Relay
L2R Bit Orientated Protocol
L2R Character Orientated Protocol
Layer 3
Location Area
Location Area Code
Location Area Identification
Local Area Network
Link Access Procedure
Link Access Protocol Balanced
Link Access Protocol for D channel
Link Access Protocol on the Dm channel

12

LCN	Local Communication Network
LE	Local Exchange
LFI	Length Field Indicator
LI	Length Indicator
LLC	Low Layer Compatibility
LLC	Logical Link Control
Lm	traffic channel with capacity Lower than a Bm
LMSI	Local Mobile Station Identity
LMSS	Land Mobile Satellite Service
LND	Last Number Dialed
LO	Last Octet
LOBITS	Low Order Bits
LOC	LOCation
LoS	Line of Sight
LPD	Link Protocol Discriminator
LPLMN	Local PLMN
LPS	Last Part Size
LQI	Link Quality Indication
LR	Location Register
LR	Location Registration
lsb	least significant bit
LSTR	Listener Side Tone Rating
LTE	Local Terminal Emulator
LU	Location Update
LV	Length and Value

13

Μ

М	Mandatory
М	clear text Message
MA	Mobile Allocation
MAC	Medium Access Control
MACN	Mobile Allocation Channel Number
MAF	Mobile Additional Function
MAH	Mobile Access Hunting supplementary service
MAI	Mobile Allocation Index
MAIO	Mobile Allocation Index Offset
MAP	Mobile Application Part
MCC	Mobile Country Code
MCI	Malicious Call Identification supplementary service
MCS	Modulation and Coding Scheme
MD	Mediation Device
MDL	(mobile) Management (entity) - Data Link (layer)
ME	Mobile Equipment
MEF	Maintenance Entity Function
MES	Mobile Earth Station
MESa	Mobile Earth Station, country a
MESb	Mobile Earth Station, country b
MES-BSS	Mobile Earth Station-Base Station Subsystem
MESc	Mobile Earth Station, country c
MES-GSS	Mobile Earth Station-Gateway Station Subsystem
MES-ME	Mobile Earth Station–Mobile Equipment
MES-MS	Mobile Earth Station–Mobile Station
MF	Multi Frame
MHS	Message Handling System
MHz	MegaHertz
MIC	Mobile Interface Controller
MII	Mobile Identity Indicator
MM	Mobility Management
MM	Mobility Management layer
MME	Mobile Management Entity
MMI	Man-Machine Interface

MNC	Mobile Network Code
MO	Mobile Originated
MOD	MODify
MoU	Memorandum of Understanding
MPH	(mobile) Management (entity) – PHysical (layer) [primitive]
MPTY	MultiParTY (Multi ParTY) supplementary service
MRP	Mouth Reference Point
MS	Mobile Station
msb	most significant bit
MS-BSS	Mobile Station – Base Station System
MSC	Mobile Switching Center
MSCID	MSC IDentity
MSCM	Mobile Station Class Mark
MSC(o)	MSC within originating GS
MSC(t)	MSC within terminating GS
MSCU	Mobile Station Control Unit
msec	Millisecond
MSG	MeSsaGe phase of fax transmission per CCITT T.30
MSISDN	Mobile Station International iSDn Number
MSRN	Mobile Station Roaming Number
MSS	Mobile Satellite Service
MT	Mobile Terminated
MTGMR	Mobile Terminal for GMR
MTGMR	Mobile Terminated (subscriber GMR)
MTM	Mobile-to-Mobile (call)
MTP	Message Transfer Part
MTP	Message TransPort layer
MU	Mark Up
MUMS	Multi User Mobile Station

14

Ν

N(R)	Receiver sequence Number
N(S)	Send sequence Number
NA	Not Available
NB	Normal Burst
NCC	Network (PLMN) Color Code
NCH	Notification CHannel
NDC	National Destination Code
NDUB	Network Determined User Busy
NE	Network Element
NEF	Network Element Function
NF	Network Function
NIC	Network Independent Clocking
NM	Network Management
NMC	Network Management Center
NMSI	National Mobile Station Identification number
NPI	Numbering Plan Indicator
NSS	Network Switching Subsystem
NSAP	Network Service Access Point
NSS	Network Switching Subsystem
NT	Network Termination
NT	Non Transparent
NT3	three-slot Normal Traffic
NT6	six-slot Normal Traffic
NT9	nine-slot Normal Traffic
NTAAB	New Type Approval Advisory Board
NTN	Network Terminal Number
NUA	Network User Access
NUI	Network User Identification
NUP	National User Part (SS7)

0

O O&M OA OACSU OCB OLR OMC OML OR OS OSL	Optional Operations & Maintenance Outgoing Access (CUG SS) Off-Air Call Set-Up Outgoing Call Barred within the CUG Overall Loudness Rating Operations and Maintenance Center Operations and Maintenance Link Optimal Routing Operating System
OR	Optimal Routing
OSI OSI RM OSS	Open System Interconnect OSI Reference Model Operation(s) Support System

Ρ

PABXPrivate Automatic Branch eXchangePABXPrivate Automatic Branch eXchangePACCHPacket Associate Control CHannelPADPacket Assembly/DisassemblyPAGCHPacket Access Grant CHannelPANPower Attenuation NotificationPARPower Attenuation RequestPASPower Attenuation SettingPBCCHPacket Broadcast Control CHannelPCPersonal ComputerPCPhysical Channel (2d)PC6dPhysical Channel (2d)PC6dPhysical Channel (6d)PC12uPhysical Channel (12u)PCCCHPacket Common Control CHannelPCMPulse Code ModulationPCRMPulse Code ModulationPCRMPulse Code ModulationPCRNPhysical-Channel-Relative Timeslot NumberPDProtocol DiscriminatorPDPublic DataPDNPublic Data CHannelPDNPublic Data Traffic CHannelPDNPublic Data Traffic CHannelPDUProtocol Data UnitP/FPoll And Final bitPHPhysical layerPHPhysical layerPIPresonal Identification NumberPKABPacket Kaep-Alive BurstPLMNPublic Land Mobile Network(s)PNBPacket Normal BurstPNCPrésentation des Normes EuropéennesPOIPoint Of Interconnection (with PSTN)PPPoint-to-PointPPCPacket Random Access CHannel	PAB	Packet Access Burst
PACCHPacket Associate Control CHannelPADPacket Assembly/DisassemblyPAGCHPacket Assembly/DisassemblyPANPower Attenuation NotificationPANPower Attenuation RequestPASPower Attenuation SettingPBCCHPacket Broadcast Control CHannelPCPersonal ComputerPCPhysical Channel (2d)PC6dPhysical Channel (2d)PC6dPhysical Channel (12u)PCCCHPacket Common Control CHannelPCMPaise Code ModulationPCHPaging CHannel-Relative Timeslot NumberPDProtocol DiscriminatorPDPublic DataPDCHPacket Data CHannelPDNPublic Data NetworkPDRPreliminary Design ReviewPDTCHPacket Data CHannelPDVProtocol Data UnitP/FPoll/FinalP/FPoll and Final bitPHPacket HandlerPHPhysical (layer)PHIPacket Handler InterfacePHYPHYsical layerPIPresonal Identification NumberPISProtocol Implementation Conformance StatementPINPersonal Identification NumberPKSPortocol Implementation Conformance StatementPINPersonal Identification NumberPKPacket Keep-Alive BurstPLMNPublic Land Mobile Network(s)PNBPacket Normal BurstPNEPrésentation des Normes EuropéennesPOIPoint Of Interconnection (with PSTN) <tr< td=""><td></td><td></td></tr<>		
PADPacket Assembly/DisassemblyPAGCHPacket Access Grant CHannelPANPower Attenuation NotificationPARPower Attenuation RequestPASPower Attenuation SettingPBCCHPacket Broadcast Control CHannelPCPersonal ComputerPCPhysical ChannelPC2dPhysical Channel (2d)PC6dPhysical Channel (12u)PCCCHPacket Common Control CHannelPCMPacket Common Control CHannelPCMPacket Common Control CHannelPCMPacket Common Control CHannelPCMPusical-Channel-Relative Timeslot NumberPDProtocol DiscriminatorPDPublic DataPDCHPacket Data CHannelPDNPublic DataPDRPreliminary Design ReviewPDTCHPacket Data Traffic CHannelPDUProtocol Data UnitP/FPoll and Final bitPHPacket HandlerPHPhysical (layer)PHIPacket Handler InterfacePHYPHYsical layerPIPresonal Identification NumberPKABPacket Keep-Alive BurstPLMNPublic Land Mobile Network(s)PNBPacket Normal BurstPNCPrésentation des Normes EuropéennesPOIPoint-to-PointPPCHPacket Paging CHannelPPEPrimitive Procedure Entity		
PAGCHPacket Access Grant CHannelPANPower Attenuation NotificationPARPower Attenuation RequestPASPower Attenuation SettingPBCCHPacket Broadcast Control CHannelPCPersonal ComputerPCPhysical Channel (2d)PCddPhysical Channel (12u)PCCHPacket Common Control CHannelPCMPacket Common Control CHannelPCMPacket Common Control CHannelPCMPacket Common Control CHannelPCMPulse Code ModulationPCRTNPhysical-Channel-Relative Timeslot NumberPDPotocol DiscriminatorPDPublic DataPDCHPacket Data CHannelPDNPublic DataPDRPreliminary Design ReviewPDTCHPacket Data Traffic CHannelPDUProtocol Data UnitP/FPoll and Final bitPHPacket HandlerPHPacket HandlerPHPhysical (layer)PHIPrecorrection IndicatorPIPresonal Identification NumberPKABPacket Kormal BurstPLMNPublic Land Mobile Network(s)PNBPacket Normal BurstPNFPoint-to-PointPPCHPacket Paging CHannel		
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PPE Primitive Procedure Entity	PP	Point-to-Point
	-	
PRACH Packet Random Access CHannel	PPE	Primitive Procedure Entity
	-	
Pref CUG Preferential CUG	Pref CUG	Preferential CUG

PRN	Provide Roaming Number
PROC	PROCeeding
PROG	PROGram
PRI	PRivate Information
Ps	location Probability
PSFC	Paging Signaling Failure Counter
PSI	Packet System Information
PSPDN	Packet Switched Public Data Network
PSTN	Public Switched Telephone Network
PTCCH	Packet Timing Advance Control CHannel
PTCCH/D	Packet Timing advance Control CHannel/Downlink
PTCCH/U	Packet Timing advance Control CHannel/Uplink
PUCT	Price per Unit Currency Table
PUI	PUblic Information
PW	PassWord

Q

QA	Q (interface) – Adapter
QAF	Q-Adapter Function
QoS	Quality of Service

R

R	Value of Reduction of the MS transmitted RF power relative to the maximum allowed output
	power of the highest power class of MS (A)
RA	Roaming Agreements
RA	Registration Area
RAB	Random Access Burst
RACH	Random Access CHannel
RAI	Routing Area Indicator
RAND	RANDom number (used for authentication)
RBB	Received Block Bitmap
RBER	Residual Bit Error Ratio
RDI	Restricted Digital Information
REC	RECommendation
REJ	REJect(ion)
REL	RELease
REQ	REQuest
RF	Radio Frequency
RFC	Radio Frequency Channel
RFCH	Radio Frequency Channel
RFN	Reduced TDMA Frame Number
RFU	Reserved for Future Use
RLC	Radio Link Control
RLP	Radio Link Protocol
RLR	Receiver Loudness Rating
RMS	Root Mean Square (value)
RNR	Receiver Not Ready
RNTABLE	TABLE of 128 integers in the hopping sequence
RPLMN	Registered PLMN
RPOA	Recognized Private Operating Agency
RR	Radio Resource
RR	Receive Ready
RS	Reed-Solomon
RSE	Radio System Entity
RSL	Radio Signaling Link
RSS	Received Signal Strength
RSSI	Received Signal Strength Indication
RSZI	Regional Subscription Zone Identity
RTE	Remote Terminal Emulator
Rx	Receiver
RXLEV	Receiver signal LEVel

RXQUAL Receiver signal QUALity

S s

S	Supervisor (function bit)
Sa	Subscriber country a
SABM	Set Asynchronous Balance Mode
SACCH	Satellite Access Control CHannel
SACCH	Slow Associated Control CHannel
SACCH	Slow Access Control CHannel
SACCH/C4	Slow Associated Control CHannel/Channel 4
SACCH/C8	Slow Associated Control CHannel/Channel 8
SACCH/T	Slow Associated Control CHannel/Traffic channel
SACCH/TF	Slow Associated Control CHannel/Traffic channel Full rate
SACCH/TH	Slow Associated Control Channel/Traffic channel Half rate
SAP	Service Access Point
SAPI	Service Access Point Identifier
Sat	Satellite
Sb	Subscriber country b
SB	Synchronization Burst
SBID	Spot Beam IDentity
SDID	Subscriber country c
SC	Service Center (used for SMS)
SC	Service Center (used for SMS)
SCCP	Signaling Connection Control Part
SCH	
	Synchronization CHannel SubChannel Number
SCN SCP	Service Control Point
SDCCH	Standalone Dedicated Control CHannel
SDD	
SDD	System Design Document Software Design Document
SDL	Specification Description Language
SDE	SDL Development Tool
SDU	Service Data Unit
SE	Support Entity
SEF	Support Entity Function
SFH	Slow Frequency Hopping
SGSN	Serving GPRS Support Node
SI	System Information
SI	Screening Indicator
SI	Service Interworking
SI	Supplementary Information
SIA	Supplementary Information A
SID	Silence Descriptor
SIM	Subscriber Identity Module
SIRFN	System-Information-Relative Frame Number
SLR	Send Loudness Rating
SLTM	Signaling Link Test Message
SME	Short Message Entity
SMG	Special Mobile Group
SMS	Short Message Service
SMSCB	Short Message Service Cell Broadcast
SMS-SC	Short Message Service-Service Center
SMS/PP	Short Message Service/Point-to-Point
Smt	Short message terminal
SN	Subscriber Number
SNDC	SubNetwork Dependent Convergence
SNDCP	SubNetwork Dependent Convergence Protocol
SNR	Serial NumbeR
SOA	Suppress Outgoing Access (CUG SS)
SOR	Support of Optimal Routing
SP	Service Provider

SP	Signalling Point
SP	SPare
SPC	Signaling Point Code
SPC	Suppress Preferential CUG
SQI	Signal Quality Indicator
SQM	Signal Quality Measurement
SQT	Signal Quality Target
SRES	Signed RESponse (authentication)
SRH	SB_Reselect_Hysteresis
SRI	Send Routing Information
SS	Supplementary Service
SS	System Simulator
SS7	Signaling System 7
SSC	Supplementary Service Control string
SSN	SubSystem Number
SSP	Service Switching Point
SST	SACCH Status biT
STMR	Side Tone Masking Rating
STP	Signaling Transfer Point
SVN	Software Version Number
S/W	SoftWare

Т

m	TT:
T	Timer
Т	Transparent
Т	Type only
T-BCCH	Temporary-BCCH
ТА	Terminal Adapter
ТА	Timing Advance
TAC	Type Approval Code
TACCH	Terminal-to-terminal Associated Control CHannel
TAF	Terminal Adaptation Function
TAI	Timing Advance Index
TBF	Temporary Block Flow
TBR	Technical Basis for Regulation
TC	Transaction Capabilities
TC	Timing Correction
TC-TR	Technical Committee-Technical Report
TCH	Traffic Channel
TCH3	Traffic CHannel for speech
TCH6	Traffic CHannel for-4,8 kbps user data
TCH9	Traffic CHannel for-9,6 kbps user data
TCH/F	Traffic CHannel for Full rate
TCH/F2,4	Traffic CHannel for Full rate data ($\leq 2,4$ kbps)
TCH/F4,8	Traffic CHannel for Full rate data (4,8 kbps)
TCH/F9,6	Traffic CHannel for Full rate data (9,6 kbps)
TCH/FS	Traffic CHannel for Full rate Speech
TCH/H	Traffic CHannel for Half rate
TCH/HS	Traffic CHannel for Half rate Speech
TCH/H2,4	Traffic CHannel for Half rate data ($\leq 2,4$ kbps)
TCH/H4,8	Traffic CHannel for Half rate data (4,8 kbps)
TCHN	Traffic CHannel Network
TCI	Transceiver Control Interface
TCS	Traffic Control Subsystem
TCS(o)	TCS within originating ground station
TCS(t)	TCS within terminating ground station
TDMA	Time Division Multiple Access
TE	Terminal Equipment
Tei	Terminal endpoint identifier
TFA	TransFer Allowed
TFI	Temporary Flow Identifier
111	

TFI	Temporary Frame Identity
TFP	TransFer Prohibited
T _{HPA}	Timer (High Penetration Alerting)
TI	Transaction Identifier
TLLI	Temporary Logical Link Identity
TLV	Type, Length and Value
TMN	Telecommunications Management Network
TMSI	Temporary Mobile Subscriber Identity
TMSI o/n	Temporary Mobile Subscriber Identity old/new
TN	Timeslot Number
TON	Type Of Number
TRX	Transceiver
TS	TimeSlot
TS	Technical Specification
TS	TeleService
TSC	Training Sequence Code
TSDI	Transceiver Speech & Data Interface
TSP	Target Service Provider
TTCH	Terminal-to-Terminal CHannel
TTCN	Tree and Tabular Combined Notation
TTFF	Time To First Fix
TtG	Terminal-to-Gateway
TTID	Temporary Terminal IDentification
TtT	Terminal-to-Terminal
TUP	Telephone User Part (SS7)
TV	Type and Value
Tx	Transmit
Tx	Transmitter
TXPWR	Transmit PoWeR
	TX power level in the MS_TXPWR_REQUEST and MS_TXPWR_CONF parameters

U

U	Unnumbered (function bit)
UA	Unnumbered Acknowledgment
UD	Unsatisfied Demand
UDI	Unrestricted Digital Information
UDUB	User Determined User Busy
UFN	Uplink Frame Number
UI	Unnumbered Information (frame)
UIC	Union Internationale des Chemins de fer
ULQR	UpLink Quality Report
UPCMI	Uniform PCM Interface (13-bit)
UPD	UP to Date
USF	Uplink State Flag
USSD	Unstructured SS Data
UT	User Terminal
UTC	Universal Time Code
UTC	Universal Time Co-ordinate(s)
UTC	UT terminated Call
UUS	User-to-User Signalling supplementary service
UW	Unique Word

V

V	Value only
V(A)	Acknowledge state Variable
V(R)	Receive state Variable
V(S)	Send state Variable
V(SD)	SenD state Variable
VAD	Voice Activity Detection
VAP	Videotex Access Point
VBS	Voice Broadcast Service

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VGCS	Voice Group Call Service
VLR	Visitor Location Register
VLR o/n	Visitor Location Register old/new
VMSC	Visited Mobile Switching Center
VPLMN	Visited PLMN
VPLMN	Visited Public Land Mobile Network
VSC	Videotex Service Center
VSP	Visiting Service Provider
VT	Vehicular Terminal
VTX host	The components dedicated to Videotex service

W

WS	Work Station
WPA	Wrong Password Attempts (counter)

Zone Code

Χ

XID	eXchange IDentifier
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History

Document history		
V2.1.1	March 2005	Publication