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# European digital cellular telecommunications system (Phase 2); Abbreviations and acronyms (GSM 01.04)

#### **ETSI**

European Telecommunications Standards Institute

#### **ETSI Secretariat**

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - Internet: secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

lew presentation - see History box

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#### **Foreword**

This ETSI Technical Report (ETR) has been produced by the Special Mobile Group (SMG) Technical Committee (TC) of the European Telecommunications Standards Institute (ETSI). This ETR describes the abbreviations and acronyms used within the European Telecommunication Standards (ETSs) related to the European digital cellular telecommunications system (Phase 2).

This ETR is an informative document resulting from SMG studies which are related to the European digital cellular telecommunications system (Phase 2). This ETR is used to publish material which is of an informative nature, relating to the use or the application of ETSs and is not suitable for formal adoption as an ETS.

This ETR 100 third edition corresponds to GSM technical specification, GSM 01.04, Phase 2, version 4.1.2.

The specification from which this ETR has been derived was originally based on CEPT documentation, hence the presentation of this ETR may not be entirely in accordance with the ETSI/PNE rules.

Reference is made within this ETR to GSM Technical Specifications (GSM-TS) (NOTE).

NOTE:

TC-SMG has produced documents which give the technical specifications for the implementation of the European digital cellular telecommunications system. Historically, these documents have been identified as GSM Technical Specifications (GSM-TS). These TSs may have subsequently become I-ETSs (Phase 1), or ETSs (Phase 2), whilst others may become ETSI Technical Reports (ETRs). GSM-TSs are, for editorial reasons, still referred to in this ETR.

#### Introduction

This ETR consists primarily of those acronyms and abbreviations that are considered essential to the understanding and application of the principles of a GSM PLMN.

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#### 1 Scope

This ETR provides the abbreviations and acronyms to be used throughout the GSM specifications.

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

#### 2 References

This ETR has no normative references.

#### 3 Abbreviations and acronyms

#### Δ

A3	Authoritisation algorithm A2
A38	Authentication algorithm A3 A single algorithm performing the functions of A3 and A8
A5/1	Encryption algorithm A5/1
A5/1 A5/2	
A5/X	Encryption algorithm A5/2
	Encryption algorithm A5/0-7
A8	Ciphering key generating algorithm A8
AB	Access Burst
AC	- Access Class (C0 to C15)
4.00	- Application Context
ACC	Automatic Congestion Control
ACCH	Associated Control CHannel
ACK	ACKnowledgement
ACM	<ul> <li>Accumulated Call Meter</li> </ul>
	<ul> <li>Address Complete Message</li> </ul>
ACU	Antenna Combining Unit
ADC	<ul> <li>ADministration Centre</li> </ul>
	<ul> <li>Analogue to Digital Converter</li> </ul>
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
AoC	Advice of Charge
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 ReQuest for retransmission
ATT (flag)	ATTach
AU	Access Unit
AuC	Authentication Centre
AUT(H)	AUThentication
/ (O I (I I)	7.0 THORIGORION

#### В

BA	BCCH Allocation
BAIC	Barring of All Incoming Calls supplementary service
BAOC	Barring of All Outgoing Calls supplementary service
BCC	Base Transceiver Station (BTS) Colour Code
BCCH	Broadcast Control CHannel
BCD	Binary Coded Decimal
BCF	Base station Control Function
BCIE	Bearer Capability Information Element
BER	Bit Error Rate

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**Bad Frame Indication** 

ΒI all Barring of Incoming call supplementary services

**BIC-Roam** Barring of Incoming Calls when Roaming outside the home PLMN country

supplementary service

Full-rate traffic channel Bm

BN Bit Number

BO all Barring of Outgoing call supplementary services

**BOIC** Barring of Outgoing International Calls supplementary service

Barring of Outgoing International Calls except those directed to the Home PLMN **BOIC-exHC** 

Country supplementary service

BS Basic Service (group)

> **Bearer Service Basic Service Group**

**BSG BSC Base Station Controller** 

Base transceiver Station Identity Code **BSIC** 

**BSIC-NCELL** BSIC of an adjacent cell **BSS** Base Station System

Base Station System Application Part **BSSAP** 

**BSSMAP** Base Station System Management Application Part

Base Station System Operation and Maintenance Application Part **BSSOMAP** 

**Base Transceiver Station** BTS

#### C

С Conditional CA Cell Allocation

Charge Advice Information CAI

Cell Broadcast CB

CBC Cell Broadcast Centre **CBCH** Cell Broadcast CHannel

CBMI Cell Broadcast Message Identifier

CC Country Code

Call Control

**CCBS** Completion of Calls to Busy Subscriber supplementary service

CCCH Common Control CHannel **CCF** Conditional Call Forwarding

Control CHannel CCH

Comité Consultatif International Télégraphique et Téléphonique (The **CCITT** 

International Telegraph and Telephone Consultative Committee)

CCM **Current Call Meter** 

CCP Capability/Configuration Parameter **CCPE** Control Channel Protocol Entity

Circuit Cct

**CDUR** Chargeable DURation called station identifier CED

**CEIR** Central Equipment Identity Register

**CEND** end of charge point

**CEPT** Conférence des administrations Européennes Postes des et

**Telecommunications** 

CF Conversion Facility

all Call Forwarding services

**CFB** Call Forwarding on mobile subscriber Busy supplementary service

Call Forwarding on mobile subscriber Not Reachable supplementary service **CFNRc** 

Call Forwarding on No Reply supplementary service **CFNRy CFU** Call Forwarding Unconditional supplementary service

CHP **CHarging Point** 

CHV Card Holder Verification information

Cell Identity CI CUG Index

Carrier to Interference Ratio CIR **CKSN** Ciphering Key Sequence Number

Calling Line Identity CLI

CLIP Calling Line Identification Presentation supplementary service CLIR Calling Line Identification Restriction supplementary service

CM Connection Management

CMD CoMmanD

CMM Channel Mode Modify

CNG CalliNG tone

COLI COnnected Line Identity

COLP COnnected Line identification Presentation supplementary service COLR COnnected Line identification Restriction supplementary service

COM COMplete

CONNACK
C/R
Command/Response field bit
CRC
Cyclic Redundancy Check (3 bit)
CRE
CSPDN
Circuit Switched Public Data Network
CT
CONNect ACKnowledgement
Command/Response field bit
Cyclic Redundancy Check (3 bit)
Call RE-establishment procedure
Circuit Switched Public Data Network
CT
Call Transfer supplementary service

Channel TesterChannel Type

CTR Common Technical Regulation

CUG Closed User Group supplementary service

CW Call Waiting supplementary service

#### D

DAC Digital to Analogue Converter

DB Dummy Burst

DCCH Dedicated Control CHannel

DCE Data Circuit terminating Equipment
DCF Data Communication Function
DCN Data Communication Network
DCS1800 Digital Cellular System at 1800MHz

DET DETach
DISC DISConnect
DL Data Link (layer)

DLCI Data Link Connection Identifier

DLD Data Link Discriminator

Dm Control channel (ISDN terminology applied to mobile service)

DMR Digital Mobile Radio
DNIC Data network identifier
DP Dial/Dialled Pulse

DRX Discontinuous reception (mechanism)

DSE Data Switching Exchange
DSI Digital Speech Interpolation
DSS1 Digital Subscriber Signalling No1
DTAP Direct Transfer Application Part
DTE Data Terminal Equipment

DTMF Dual Tone Multi-Frequency (signalling)
DTX Discontinuous transmission (mechanism)

#### Ε

EA External Alarms

EBSG Elementary Basic Service Group ECM Error Correction Mode (facsimile)

Ec/No Ratio of energy per modulating bit to the noise spectral density

ECT Explicit Call Transfer supplementary service

EEL Electric Echo Loss

EIR Equipment Identity Register

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

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Ear Reference Point

**Equivalent Radiated Power** 

**ERR ERRor** 

**ETSI Technical Report ETR** 

European Telecommunication Standard **ETS** 

European Telecommunications Standards Institute **ETSI** 

#### F

FΑ Full Allocation

Fax Adaptor

FAC Final Assembly Code

Fast Associated Control CHannel **FACCH** 

FACCH/F Fast Associated Control Channel/Full rate Fast Associated Control Channel/Half rate FACCH/H

Frequency correction Burst FΒ Frequency Correction CHannel **FCCH** Frame Check Sequence **FCS FDM** Frequency Division Multiplex **FDN** Fixed Dialling Number **FEC** Forward Error Correction Frame Erasure Ratio **FER** Frequency Hopping FΗ Frame Number FΝ Full Rate FR

forwarded-to number ftn

#### G

**GMSC** Gateway Mobile-services Switching Centre **GMSK** Gaussian Minimum Shift Keying (modulation)

**GPA GSM PLMN Area** 

**GPRS** General Packet Radio Service

GSA **GSM System Area** 

Global System for Mobile communications **GSM** 

**GSM MS GSM Mobile Station** 

**GSM PLMN GSM Public Land Mobile Network** 

GT Global Title

#### Н

**HANDO HANDOver** 

**HDLC** High level Data Link Control High Layer Compatibility HLC Home Location Register HLR

Call hold supplementary service HOLD

**HPLMN** Home PLMN HPU Hand Portable Unit

HR Half Rate

Hopping Sequence Number **HSN** 

Home Units HU

Information frames (RLP) Ι

Incoming Access (closed user group SS) IΑ

IAM Initial Address Message Interlock Code (CUG SS) IC

Incoming Calls Barred (within the CUG) **ICB** 

ICC Integrated Circuit(s) Card

Interlock Code of the preferential CUG IC(pref)

ICM In-Call Modification

ID IDentification/IDentity/IDentifier
IDN Integrated Digital Network
IE (signalling) Information Element

IEC International Electrotechnical Commission

IEI Information Element Identifier

I-ETS Interim European Telecommunications Standard
IMEI International Mobile station Equipment Identity

IMSI International Mobile Subscriber Identity

IN Interrogating Node

ISC International Switching Centre
ISDN Integrated Services Digital Network

ISO International Organization for Standardization ISUP ISDN User Part (of signalling system No.7)

ITC Information Transfer Capability

ITU International Telecommunication Union

IWF InterWorking Function IWMSC InterWorking MSC IWU InterWorking Unit

#### K

k Windows size

K Constraint length of the convolutional code

Kc Ciphering key

Ki Individual subscriber authentication key

#### L

L1 Layer 1

L2ML Layer 2 Management Link

L2R Layer 2 Relay

L2R BOP L2R Bit Orientated Protocol
L2R COP L2R Character Orientated Protocol

L3 Layer 3
LA Location Area
LAC Location Area Code
LAI Location Area Identity
LAN Local Area Network

LAPB Link Access Protocol Balanced

LAPDm Link Access Protocol on the Dm channel

LCN Local Communication Network

LE Local Exchange
LI - Length Indicator
- Line Identity

Low Layer Compatibility

Lm Traffic channel with capacity lower than a Bm

LMSI Local Mobile Station Identity
LND Last Number Dialled

LPLMN Local PLMN
LR Location Register
LSTP Listener SideTener

LSTR Listener SideTone Rating
LTE Local Terminal Emulator
LU - Local Units
- Location Update

LV Length and Value

#### M

LLC

M Mandatory
MA Mobile Allocation

MEF

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Mobile Allocation Channel Number

MAF Mobile Additional Function

MAH Mobile Access Hunting supplementary service

Mobile Allocation Index MAI Mobile Allocation Index Offset MAIO Mobile Application Part MAP Mobile Country Code MCC

Malicious Call Identification supplementary service MCI

MD **Mediation Device** 

(mobile) Management (entity) - Data Link (layer) MDL

ME Maintenance Entity

Mobile Equipment Maintenance Entity Function

MF MultiFrame

MHS Message Handling System Mobile Interface Controller MIC MM Man Machine Mobility Management

MME Mobile Management Entity MMI Man Machine Interface MNC Mobile Network Code Mobile Originated MO

Memorandum of Understanding MoU

(mobile) Management (entity) - PHysical (layer) [primitive] MPH

**MPTY** MultiParTY (Multi ParTY) supplementary service

MRP Mouth Reference Point

MS Mobile Station

MSC Mobile-services Switching Centre, Mobile Switching Centre

**MSCM** Mobile Station Class Mark **MSCU** Mobile Station Control Unit

**MSISDN** Mobile Station International ISDN Number

**MSRN** Mobile Station Roaming Number Mobile Terminated MT MT (0,1,2) Mobile Termination Mobile-To-Mobile (call) MTM Message Transfer Part MTP

MU Mark Up

**MUMS** Multi User Mobile Station

#### N

N/W Network Normal Burst NB

**NBIN** A parameter in the hopping sequence Network (PLMN) Colour Code NCC

**NCELL** Neighbouring (of current serving) Cell

NDC **National Destination Code NDUB Network Determined User Busy** 

NE **Network Element** 

**Network Element Function** NEF

NET Norme Europeenne de Télécommunications

NF **Network Function** 

NIC Network Independent Clocking **Network Management** NM

**Network Management Centre NMC** 

National Mobile Station Identification number **NMSI** 

NPI Number Plan Indentifier NSAP **Network Service Access Point** NT **Network Termination** Non Transparent

**NTAAB** New Type Approval Advisory Board

**Network User Access** NUA **Network User Identification** NUI

NUP National User Part (SS7)

#### 0

O Optional

OA Outgoing Access (CUG SS)
O&M Operations & Maintenance

OACSU Off-Air-Call-Set-Up

OCB Outgoing Calls Barred within the CUG

OD Optional for operators to implement for their aim

OLR Overall Loudness Rating

OMC Operations & Maintenance Centre
OML Operations and Maintenance Link

OS Operating System

OSI Open System Interconnection

OSI RM OSI Reference Model

#### P

PABX Private Automatic Branch eXchange
PAD Packet Assembly/Disassembly facility

PCH Paging CHannel
PCM Pulse Code Modulation
PD - Protocol Discriminator

PDN Public Data Networks
PH - Packet Handler

- PHysical (layer)
PHI Packet Handler Interface
PI Presentation Indicator

PICS Protocol Implementation Conformance Statement

PIN Personal Identification Number

PIXT Protocol Implementation eXtra information for Testing

PLMN Public Lands Mobile Network

PNE Présentation des Normes Européennes POI Point Of Interconnection (with PSTN)

PP Point-to-Point

PPE Primative Procedure Entity

Pref CUG Preferential CUG Location probability

PSPDN Packet Switched Public Data Network
PSTN Public Switched Telephone Network
PUCT Price per Unit Currency Table

PW Pass Word

#### 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 RAndom mode request information field

RAB Random Access Burst RACH Random Access CHannel

RAND RANDom number (used for authentication)

RBER Residual Bit Error Ratio

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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
RLP Radio Link Protocol
RLR Receiver Loudness Rating
RMS Root Mean Square (value)

RNTABLE Table of 128 integers in the hopping sequence

RPOA Recognised Private Operating Agency

RR Radio Resource
RSE Radio System Entity
RSL Radio Signalling Link

RSZI Regional Subscription Zone Identity

RTE Remote Terminal Emulator
RXLEV Received signal level
RXQUAL Received Signal Quality

#### S

S/W SoftWare

SABM Set Asynchronous Balanced Mode SACCH Slow Associated Control CHannel

SACCH/C4 Slow Associated Control CHannel/SDCCH/4
SACCH/C8 Slow Associated Control CHannel/SDCCH/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 Indicator

SB Synchronization Burst

SC - Service Centre (used for SMS)

Service Code

SCCP Signalling Connection Control Part

SCH Synchronization CHannel SCN Sub-Channel Number

SDCCH Stand-alone Dedicated Control CHannel SDL Specification Description Language

SDT SDL Development Tool
SDU Service Data Unit
SE Support Entity

SEF Support Entity Function
SFH Slow Frequency Hopping
SI - Screening Indicator
- Service Interworking

Supplementary Information (SIA=Supplemenatary Information A)

SID Sllence Descriptor

SIM Subscriber Identity Module
SLR Send Loudness Rating
SLTM Signalling 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 Centre
SMS/PP Short Message Service/Point-to-Point

Smt Short message terminal SN Subscriber Number

SNR Serial NumbeR

SOA Suppress Outgoing Access (CUG SS)

SP - Service Provider - Signalling Point

SPare

SPC Signalling Point Code
SPC Suppress Preferential CUG
SRES Signed RESponse (authentication)
SS - Supplementary Service

System Simulator

SSC Supplementary Service Control string

SSN Sub-System Number
SS7 Signalling System No. 7
STMR SideTone Masking Rating
STP Signalling Transfer Point
SVN Software Version Number

#### T

**TSC** 

T - Timer

TransparentType onlyTerminal Adaptor

TA Terminal Adaptor
TAC Type Approval Code
TAF Terminal Adaptation Function

TBR Technical Basis for Regulation
TC Transaction Capabilities

TCH Traffic CHannel TCH/F A full rate TCH

TCH/F2,4 A full rate data TCH (µ2,4kbit/s)
TCH/F4,8 A full rate date TCH (4,8kbit/s)
TCH/F9,6 A full rate data TCH (9,6kbit/s)
TCH/FS A full rate Speech TCH

TCH/H A half rate TCH

TCH/H2,4 A half rate data TCH (µ2,4kbit/s)
TCH/H4,8 A half rate data TCH (4,8kbit/s)
TCH/HS A half rate Speech TCH
TCI Transceiver Control Interface

TC-TR Technical Committee Technical Report

TDMA Time Division Multiple Access

TE Terminal Equipment
Tei Terminal endpoint identifier

TFA TransFer Allowed
TFP TransFer Prohibited
TI Transaction Identifier
TLV Type, Length and Value

TMN Telecommunications Management Network
TMSI Temporary Mobile Subscriber Identity

TN Timeslot Number
TON Type Of Number
TRX Transceiver
TS - Time Slot

- Technical Specification

TeleService
 Training Sequence Code

TSDI Transceiver Speech & Data Interface TTCN Tree and Tabular Combined Notation

TUP Telephone User Part (SS7)

TV Type and Value

TXPWR Transmit PoWeR; Tx power level in the MS\_TXPWR\_REQUEST and

MS\_TXPWR\_CONF parameters

#### U

UDI	Unrestricted Digital Information
UDUB	User Determined User Busy
UI	Unnumbered Information (Frame)
UIC	Union Internationale des Chemins de Fer
	11.17

Value only

UPCMI Uniform PCM Interface (13-bit)

UPD Up to date

USSD Unstructured Supplementary Service Data
UUS User-to-User Signalling supplementary service

#### V

٧

VAD	Voice Activity Detection
VAP	Videotex Access Point
VBS	Voice Broadcast Service

VGCS Voice Group Call Service
VLR Visitor Location Register

VMSC Visited MSC, (recommendation not to be used)

VPLMN Visited PLMN

VSC Videotex Service Centre V(SD) Send state variable

VTX host The components dedicated to Videotex service

#### W

WS	Work Station

WPA Wrong Password Attempts (counter)

#### X

XID eXchange IDentifier

### Z

ZC Zone Code

### History

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