SLOVENSKI STANDARD
SIST ETS 300 589 E1:2003

01-december-2003

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European digital cellular telecommunications system (Phase 2); Signalling transport mechanism specification for the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.06)

Ta slovenski standard je istoveten z: ETS 300 589 Edition 1

ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)

SIST ETS 300 589 E1:2003 en

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ETSI

EUROPEAN

ETS 300 589

TELECOMMUNICATION

September 1994

STANDARD

Source:ETSI TC-SMG

Reference:GSM 08.06

ICS: 33.060.30

Key words: European digital cellular telecommunications system, Global System for Mobile communications (GSM)

European digital cellular telecommunications system (Phase 2); Signalling transport mechanism specification for the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.06)

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e4e72bd50ca3/sist-ets-300-589-e1-2003

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG) Technical Committee (TC) of the European Telecommunications Standards Institute (ETSI).

This ETS defines the signalling transport mechanism specification for the Base Station System (BSS) to Mobile-services Switching Centre (MSC) interface. This ETS corresponds to GSM technical specification GSM 08.06 version 4.4.1.

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

Reference is made within this ETS to GSM-TSs (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-TSs). 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 GSM ETSs.

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0 General

0.1 Scope

This Technical Specification is divided split into two parts, Chapters 1-4 dealing with the MTP and chapters 5-7 dealing with the SCCP and its use.

The MTP provides a mechanism giving reliable transfer of signalling messages. Chapters 1-4 of this Technical Specification deals with the subset of the MTP that can be used between an BSS and an MSC, which iscompatible with a full MTP.

The SCCP is used to provide a referencing mechanism to identify a particular transaction relating to for instance a particular call. Chapters 5-7 identify the SCCP subset that should be used betweenan BSS and an MSC. The SCCP can also be used to enhance the message routing for (for instance) operations and maintenance information.

0.2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

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[1]   GSM 01.04 (ETR 100): "European digital cellular telecommunications system (Phase 2); Abbreviations and acronyms".

[2]   GSM 02.01 (prETS 300 500): "European digital cellular telecommunications system (Phase 2); Principles of telecommunication services supported by a GSM Public Land Mobile Network (PLMN)".

[3]   GSM 02.02 (prETS 300 501): "European digital cellular telecommunications system (Phase 2); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN)".

[4]   GSM 02.03 (prETS 300 502): "European digital cellular telecommunications system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN)".

[5]   GSM 02.04 (prETS 300 503): "European digital cellular telecommunications system (Phase 2); General on supplementary services".

[6]   GSM 02.06 (prETS 300 504): "European digital cellular telecommunications system (Phase 2); Types of Mobile Stations (MS)".

[7]   GSM 02.07 (prETS 300 505): "European digital cellular telecommunications system (Phase 2); Mobile Station (MS) features".

[8]   GSM 02.08 (ETR 101): "European digital cellular telecommunications system (Phase 2); Quality of service".

[9]   GSM 02.09 (prETS 300 506): "European digital cellular telecommunications system (Phase 2); Security aspects".

[10]   GSM 02.11 (prETS 300 507): "European digital cellular telecommunications system (Phase 2); Service accessibility".

[11]   GSM 02.16 (prETS 300 508): "European digital cellular telecommunications system (Phase 2); International Mobile station Equipment Identities (IMEI)".

[12]   GSM 02.17 (prETS 300 509): "European digital cellular telecommunications system (Phase 2); Subscriber identity modules Functional characteristics".

[13]   GSM 02.24 (prETS 300 510): "European digital cellular telecommunications system (Phase 2); Description of Charge Advice Information (CAI)".

[14]   GSM 02.30 (prETS 300 511): "European digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS)".

[15]   GSM 02.40 (prETS 300 512): "European digital cellular telecommunications system (Phase 2); Procedures for call progress indications".

[16]   GSM 02.41 (prETS 300 513): "European digital cellular telecommunications system (Phase 2); Operator determined barring".

[17]   GSM 02.81 (prETS 300 514): "European digital cellular telecommunications system (Phase 2); Line identification supplementary services - Stage 1".

[18]   GSM 02.82 (prETS 300 515): "European digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 1".

[19]   GSM 02.83 (prETS 300 516): "European digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 1".

[20]   GSM 02.84 (prETS 300 517): "European digital cellular telecommunications system (Phase 2); MultiParty (MPTY) supplementary services - Stage 1".

[21]   GSM 02.85 (prETS 300 518): "European digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 1".

[22]   GSM 02.86 (prETS 300 519): "European digital cellular telecommunications system (Phase 2); Advice of charge (AoC) supplementary services - Stage 1".

[23]   GSM 02.88 (prETS 300 520): "European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 1".

[24]   GSM 04.01 (prETS 300 550): "European digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface General aspects and principles".

[25]   GSM 04.02 (prETS 300 551): "European digital cellular telecommunications system (Phase 2); GSM Public Land Mobile Network (PLMN) access reference configuration".

[26]   GSM 04.03 (prETS 300 552): "European digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface Channel structures and access capabilities".

[27]   GSM 04.04 (prETS 300 553): "European digital cellular telecommunications system (Phase 2); layer 1 General requirements".

[28]   GSM 04.05 (prETS 300 554): "European digital cellular telecommunications system (Phase 2); Data Link (DL) layer General aspects".

[29]   GSM 04.06 (prETS 300 555): "European digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface Data Link (DL) layer specification".

[30]   GSM 04.07 (prETS 300 556): "European digital cellular telecommunications system (Phase 2); Mobile radio interface signalling layer 3 General aspects".

[31]   GSM 04.08 (prETS 300 557): "European digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 specification".

[32]   GSM 04.10 (prETS 300 558): "European digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3   Supplementary services specification General aspects".

[33]   GSM 04.11 (prETS 300 559): "European digital cellular telecommunications system (Phase 2); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".

[34]   GSM 04.12 (prETS 300 560): "European digital cellular telecommunications system (Phase 2); Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface".

[35]   GSM 04.13 (prETS 300 561): "European digital cellular telecommunications system (Phase 2); Performance requirements on mobile radio interface".

[36]   GSM 04.21 (prETS 300 562): "European digital cellular telecommunications system (Phase 2); Rate adaption on the Mobile Station - Base Station System (MS - BSS) interface".

[37]   GSM 04.22 (prETS 300 563): "European digital cellular telecommunications system (Phase 2); Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface".

[38]   GSM 04.80 (prETS 300 564): "European digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 supplementary services specification Formats and coding".

[39]   GSM 04.81 (prETS 300 565): "European digital cellular telecommunications system (Phase 2); Line identification supplementary services - Stage 3".

[40]   GSM 04.82 (prETS 300 566): "European digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 3".

[41]   GSM 04.83 (prETS 300 567): "European digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 3".

[42]   GSM 04.84 (prETS 300 568): "European digital cellular telecommunications system (Phase 2); MultiParty (MPTY) supplementary services - Stage 3".

[43]   GSM 04.85 (prETS 300 569): "European digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 3".

[44]   GSM 04.86 (prETS 300 570): "European digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 3".

[45]   GSM 04.88 (prETS 300 571): "European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 3".

[46]　　　　　　　　　GSM 04.90 (prETS 300 572): "European digital cellular telecommunications system (Phase 2); Unstructured supplementary services operation - Stage 3".

[47]　　　　　　　　　GSM 08.08 (prETS 300 590): "European digital cellular telecommunications system (Phase 2); Mobile Switching Centre - Base Station System (MSC - BSS) interface Layer 3 specification".

[48]　　　　　　　　　GSM 12.00 (prETS 300 612-1): "European digital cellular telecommunications system (Phase 2); Objectives and structure of Network Management (NM)".

[49]　　　　　　　　　GSM 12.01 (prETS 300 612-2): "European digital cellular telecommunications system (Phase 2); Common aspects of GSM Network Management (NM)".

[50]　　　　　　　　　GSM 12.07 (prETS 300 612-3): "European digital cellular telecommunications system (Phase 2); Operations and performance management".

[51]　　　　　　　　　GSM 12.02 (prETS 300 613): "European digital cellular telecommunications system (Phase 2); Subscriber, Mobile Equipment (ME) and services data administration".

[52]　　　　　　　　　GSM 12.03 (prETS 300 614): "European digital cellular telecommunications system (Phase 2); Security management".

[53]　　　　　　　　　GSM 12.04 (prETS 300 615): "European digital cellular telecommunications system (Phase 2); Performance data measurements".

[54]　　　　　　　　　GSM 12.05 (prETS 300 616): "European digital cellular telecommunications system (Phase 2); Subscriber related event and call data".

[55]　　　　　　　　　GSM 12.06 (prETS 300 617): "European digital cellular telecommunications system (Phase 2); GSM Network change control".

[56]　　　　　　　　　GSM 12.10 (prETS 300 618): "European digital cellular telecommunications system (Phase 2); Maintenance provisions for operational integrity of Mobile Stations (MS)".

[57]　　　　　　　　　GSM 12.11 (prETS 300 619): "European digital cellular telecommunications system (Phase 2); Maintenance of the Base Station System (BSS)".

[58]　　　　　　　　　GSM 12.13 (prETS 300 620): "European digital cellular telecommunications system (Phase 2); Maintenance of the Mobile-services Switching Centre (MSC)".

[59]　　　　　　　　　GSM 12.14 (prETS 300 621): "European digital cellular telecommunications system (Phase 2); Maintenance of location registers".

[60]　　　　　　　　　GSM 12.20 (prETS 300 622): "European digital cellular telecommunications system (Phase 2); Network Management (NM) procedures and messages".

[61]　　　　　　　　　GSM 12.21 (prETS 300 623): "European digital cellular telecommunications system (Phase 2); Network Management (NM) procedures and message on the A-bis interface".

[62]　　　　　　　　　GSM 12.22 (prETS 300 624): "European digital cellular telecommunications system (Phase 2); Interworking of GSM Network Management (NM) procedures and messages at the Base Station Controller (BSC)".

[63]　　　　　　　　　CCITT Recommendation Q.702: "Specifications of Signalling System No. 7 - Signalling data link".

[64]　　　　　　　　　CCITT Recommendation Q.703: "Signalling link".