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European digital cellular telecommunications system (Phase 2); Unstructured
Supplementary Service Data (USSD); Stage 1 (GSM 02.90)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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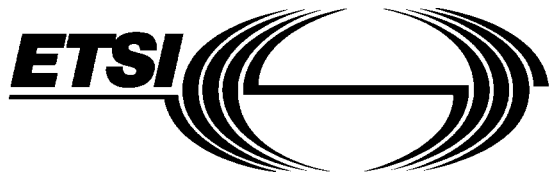
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**European digital cellular telecommunications system (Phase 2);
Stage 1 description of
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(GSM 02.90)**

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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 stage 1 description of Unstructured Supplementary Service Data (USSD) for use within the European digital cellular telecommunications system (Phase 2).

This ETS corresponds to GSM technical specification, GSM 02.90 version 4.0.4.

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 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 ETSSs (Phase 2), whilst others may become ETSI Technical Reports (ETRs). GSM-TSs are, for editorial reasons, still referred to in current GSM ETSSs.

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1 Scope

The purpose of this ETS is to define the stage 1 description of Unstructured Supplementary Service Data (USSD) for use in one or a number of GSM Public Land Mobile Networks (PLMNs).

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.

- [1] GSM 01.04 (ETR 100): "European digital cellular telecommunication system (Phase 2); Abbreviations and acronyms".
- [2] GSM 02.04 (ETS 300 503): "European digital cellular telecommunication system (Phase 2); General on supplementary services".
- [3] GSM 02.30 (ETS 300 511): "European digital cellular telecommunication system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [4] GSM 03.38 (ETS 300 537): "European digital cellular telecommunication system (Phase 2); Alphabets and language-specific information".
- [5] GSM 04.80 (ETS 300 564): "European digital cellular telecommunication system (Phase 2); Mobile radio interface layer 3 supplementary services specification Formats and coding".

3 Definitions and abbreviations

Definitions and abbreviations used in this ETS are listed in GSM 01.04 [1].

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4 Unstructured SS data operations

4.1 Mobile initiated unstructured SS data operations

4.1.1 Initiating action at the Mobile Station (MS)

If the user enters an MMI string that, according to GSM 02.30 [3], should be treated as Unstructured SS Data, the MS shall send this string to the network using the appropriate operation from GSM 04.80 [5].

The mobile initiated operation shall contain an alphabet indicator and language indicator. The alphabet indicator shall indicate the alphabet used in the operation and shall be set to "SMS default alphabet". The language indicator shall indicate "language unspecified".

The MS may initiate an Unstructured SS Data Operation either during a call or out of call.

4.1.2 Action at the network

A network supporting USSD shall examine the alphabet indicator. If the serving network does not recognise the alphabet indicated in the mobile initiated USSD operation, it shall send the operation to the HLR.

On recognition of the alphabet, the network shall examine the contents of the string, and take appropriate action, according to the following rules, depending of the format of the message.