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Digital cellular telecommunications system (Phase 2+) (GSM); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03 version 5.3.2)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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**Digital cellular telecommunications system (Phase 2+);
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(GSM 02.03 version 5.3.2)**

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Contents

Foreword	5
0 Scope	7
0.1 Normative references	7
0.2 Abbreviations	8
1 Framework for describing teleservices supported by a GSM PLMN.....	8
2 List of the teleservice attributes.....	9
3 List of teleservice categories and individual teleservices	9
4 Description of individual teleservices	9
5 Bearer capabilities supporting teleservices.....	9
6 Possible further evolution phases of teleservices in a GSM PLMN	10
Annex A (normative): Description of individual Teleservices	11
A.1 Individual Teleservices.....	11
A.1.1 Telephony.....	11
A.1.2 Emergency calls.....	12
A.1.3 Short Message Service (SMS).....	13
A.1.3.1 Short message service MT/PP.....	13
A.1.3.2 Short message service MO/PP.....	14
A.1.3.3 Short message service Cell Broadcast (CB).....	15
A.1.3.4 Short message service description	16
A.1.4 Alternate speech/facsimile G3.....	18
A.1.5 Automatic facsimile G3.....	19
A.1.6 Voice Group Call Service.....	20
A.1.7 Voice Broadcast Service.....	21
Annex B (informative): Change history	22
History.....	23

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Foreword

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

This ETS describes and defines a recommended set of Teleservices to be supported by a GSM (Phase 2+) PLMN in connection with other networks as a basis for defining the network capabilities required.

The contents of this ETS is subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of this ETS, it will be resubmitted for OAP by ETSI with an identifying change of release date and an increase in version number as follows:

Version 5.x.y

where:

- y the third digit is incremented when editorial only changes have been incorporated in the specification;
- x the second digit is incremented for all other types of changes, i.e. technical enhancements, corrections, updates, etc.

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 drafting rules.

Transposition dates	
Date of adoption of this ETS:	5 December 1997
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0 Scope

This European Telecommunications Standard (ETS) describes and defines a recommended set of Teleservices to be supported by a GSM PLMN in connection with other networks as a basis for defining the network capabilities required.

Teleservices not included in this ETS should not be introduced unilaterally by a mobile network operator, if the provision of this service requires that the GSM signalling specifications are modified.

0.1 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 350): "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [2] GSM 02.01: "Digital cellular telecommunications system (Phase 2+); Principles of telecommunication services supported by a GSM Public Land Mobile Network (PLMN)".
- [3] GSM 02.02 (ETS 300 904): "Digital cellular telecommunications system (Phase 2+); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN)".
- [4] GSM 02.04 (ETS 300 918): "Digital cellular telecommunications system (Phase 2+); General on supplementary services".
- [5] GSM 02.68 (ETS 300 925): "Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS) - Stage 1".
- [6] GSM 02.69 (ETS 300 926): "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS) - Stage 1".
- [7] GSM 03.40 (ETS 300 901): "Digital cellular telecommunications system (Phase 2+); Technical realization of the Short Message Service (SMS) Point-to-Point (PP)".
- [8] GSM 03.41 (ETS 300 902): "Digital cellular telecommunications system (Phase 2+); Technical realization of Short Message Service Cell Broadcast (SMSCB)".
- [9] GSM 04.08 (ETS 300 940): "Digital cellular telecommunication system (Phase 2+); Mobile radio interface layer 3 specification".
- [10] GSM 07.01 (ETS 300 913): "Digital cellular telecommunications system (Phase 2+); General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)".
- [11] GSM 07.05: "Digital cellular telecommunications system (Phase 2+); Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)".
- [12] CCITT Recommendation T.4: "Standardization of group 3 facsimile apparatus for document transmission".
- [13] CCITT Recommendation T.30: "Procedures for document facsimile transmission in the general switched telephone network".

0.2 Abbreviations

Abbreviations used in this ETS are listed in GSM 01.04 [1].

1 Framework for describing teleservices supported by a GSM PLMN

Teleservices supported by a GSM PLMN are described by a number of attributes which are intended to be largely independent.

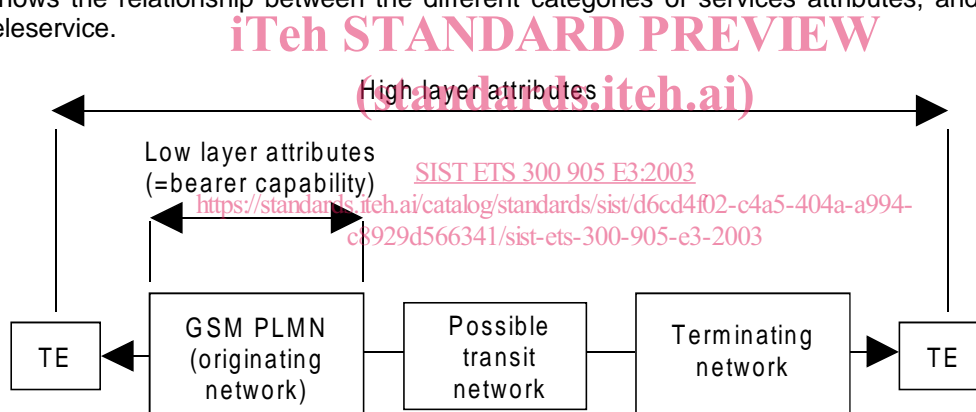
These attributes are described and defined in specification GSM 02.01 [2].

They are grouped into three categories:

- High layer attributes;
- Low layer attributes (describing the Bearer capabilities which support the Teleservice).
 - information transfer attributes;
 - access attributes.
- General attributes.

NOTE: Teleservices generally make use of underlying lower layer capabilities of Bearer Services as defined in specification GSM 02.02 [3]. However, where Teleservices are provided by a single Administration, RPOA or other services provider, the combination of values of lower layer attributes applicable to specific Teleservices may not necessarily be identical to any of those identified for the Bearer Services appearing in specification GSM 02.02 [3].

Figure 1 shows the relationship between the different categories of services attributes, and their scope within a Teleservice.



NOTE 1: A transit network may not exist.

NOTE 2: Communication may be established from both ends in principle.

Figure 1: Relationship between the categories of services attributes and their scope within a Teleservice

2 List of the teleservice attributes

Table 1 gives the list of the attributes. For the definitions and possible values of these attributes, see GSM 02.01 [2].

Table 1: List of Teleservice attributes

1. High layer capabilities	1.1 Type of user information 1.2 Layer 4 protocol functions 1.3 Layer 5 " " 1.4 Layer 6 " " 1.5 Layer 7 " "	Dominant Teleservice attribute category Secondary attributes " "
2. Low layer capabilities (describing the Bearer capability which supports the Teleservice)	2.1 Information transfer 2.1.1 Information transfer capabilities 2.1.2 Information transfer mode 2.1.3 Information transfer rate 2.1.4 Structure 2.1.5 Establishment of communication 2.1.6 Communication configuration 2.1.7 Symmetry	" " " " " " Individual services (in the category)
	2.2 Access (GSM 02.01) 2.2.1 Signalling access 2.2.2 Information access 2.3 Interworking 2.3.1 Terminating network type 2.3.2 National/international interworking 2.3.3 Interface of terminal equipment	Qualifying attributes " " " " " " " " Further specify the individual services
3. General	3.1 Supplementary services provided 3.2 Quality of service 3.3 Operational and commercial	

3 List of teleservice categories and individual teleservices

Table 2 presents a list of all Teleservices categories and of individual Teleservices and the associated dominant and secondary attributes.

4 Description of individual teleservices

The annex contains a data sheet per Teleservice with all attributes and comments.

5 Bearer capabilities supporting teleservices

According to specification GSM 02.01 [2] the Bearer Capability defines the technical features of a Teleservice as they appear to the user at the customer access point or an appropriate interface of a fixed network. The Bearer Capability is characterized by information transfer, access and interworking attributes. The same set of attributes as for a Bearer Service is used. A Bearer Capability is associated with every Teleservice.