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Digital cellular telecommunications system (Phase 2) (GSM); Mobile Station (MS)
features (GSM 02.07)

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**Digital cellular telecommunications system (Phase 2);
Mobile Stations (MS) features
(GSM 02.07)**

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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 typical Mobile Station features (MS) used within the Digital cellular telecommunications system (Phase 2) and corresponds to GSM technical specification GSM 02.07 version 4.7.0.

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.

Transposition dates	
Date of adoption of this ETS:	31 January 1996
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1 Introduction

1.1 Scope

The purpose of this European Telecommunication Standard (ETS) is to define mobile station features and to classify them according to their type and whether they are mandatory or optional. The MS features detailed in this Specification do not represent an exhaustive list. Those MS features which are subject to Type Approval are described in GSM 11.10.

1.2 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 02.03 (ETS 300 502): "European digital cellular telecommunication system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN)".
- [3] GSM 02.04 (ETS 300 503): "European digital cellular telecommunication system (Phase 2); General on supplementary services".
- [4] GSM 02.11 (ETS 300 507): "European digital cellular telecommunication system (Phase 2); Service accessibility".
- [5] GSM 02.16 (ETS 300 508): "European digital cellular telecommunication system (Phase 2); International Mobile station Equipment Identities (IMEI)".
- [6] GSM 02.17 (ETS 300 509): "European digital cellular telecommunication system (Phase 2); Subscriber identity modules Functional characteristics".
- [7] GSM 02.30 (ETS 300 511): "European digital cellular telecommunication system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [8] GSM 02.40 (ETS 300 512): "European digital cellular telecommunication system (Phase 2); Procedures for call progress indications".
- [9] GSM 02.90 (ETS 300 625): "European digital cellular telecommunication system (Phase 2); Stage 1 description of Unstructured Supplementary Service Data (UUSD)".
- [10] GSM 03.03 (ETS 300 523): "European digital cellular telecommunication system (Phase 2); Numbering, addressing and identification".
- [11] GSM 03.14 (ETS 300 532): "European digital cellular telecommunication system (Phase 2); Support of Dual Tone Multi-Frequency signalling (DTMF) via the GSM system".
- [12] GSM 04.08 (ETS 300 557): "European digital cellular telecommunication system (Phase 2); Mobile radio interface layer 3 specification".
- [13] GSM 11.10 (ETS 300 607): "European digital cellular telecommunication system (Phase 2); Mobile Station (MS) conformity specification".
- [14] GSM 11.11 (ETS 300 608): "European digital cellular telecommunication system (Phase 2); Specification of the Subscriber Identity Module-Mobile Equipment (SIM-ME) interface".

1.3 Definition

In addition to those below, abbreviations used in this specification are listed in GSM 01.04.

An MS feature is defined as a piece of equipment or function which directly relates to the operation of the MS. On the basis of this, three categories of features can be distinguished: basic, supplementary and additional features.

basic MS features: A basic MS feature is directly related to the operation of basic telecommunication services (e.g. key-pad function).

supplementary MS features: A supplementary MS feature is directly related to the operation of supplementary services (e.g. display of calling line number).

additional MS features: An additional MS feature is a feature which is neither a basic nor a supplementary feature (e.g. abbreviated dialling).

Additional MS features and supplementary services may be used independently according to the choice of subscribers/users (e.g. barring of outgoing calls). Features not directly relevant to the use as a Mobile Station are permitted, provided they do not interfere with the performance of the MS (e.g. a clock).

2 Requirements for implementing MS features

MS features are qualified as mandatory or optional. Mandatory features have to be implemented as long as they are relevant to the MS type, and will be subject to Type Approval when applied according to GSM 11.10. Whether or not an optional feature is implemented is left to the manufacturers' discretion. The method of implementation of all MS features must be done in accordance with the appropriate GSM specifications. For all present and future MS features, manufacturers have the responsibility to ensure that the MS features will neither conflict with the air interface nor cause any interference to the network or any other MS or its own MS, and these requirements shall be recognized during the Type Approval process.

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In the following tables 1/GSM 02.07, 2/GSM 02.07 and 3/GSM 02.07 the basic, supplementary and additional MS features are listed. Mandatory features are marked by "M". Optional features are marked by "O".

Additional MS features not listed in Table 3/GSM 02.07 are permitted without the requirement for this table to be amended, provided that these new features do not affect the mandatory air interface requirements.

Unless otherwise stated for a particular feature, the feature supported by the Subscriber Identity Module (SIM) takes priority over the same feature supported by the Mobile Equipment (ME).

Table 1/GSM 02.07: Basic MS features

NAME		MANDATORY (M)	OPTIONAL (O)
1.1	Display of Called Number	M*	
1.2	Indication of Call Progress Signals	M*	
1.3	Country/PLMN Indication	M*	
1.4	Country/PLMN Selection	M	
1.5	Keypad	O	(NOTE 1)
1.6	IMEI	M	
1.7	Short Message	M	(NOTE 4)
1.8	Short Message Overflow Indication	M	
1.9	DTE/DCE Interface	O	
1.10	ISDN 'S' Interface	O	
1.11	International Access Function ("+" key)	O	(NOTE 1)
1.12	Service Indicator	M*	
1.13	Autocalling restriction capabilities		(NOTE 2)
1.14	Emergency Calls capabilities	M	(NOTE 3)
1.15	Dual Tone Multi Frequency function (DTMF)	M	(NOTE 5)
1.16	Subscription Identity Management	M	
1.17	On/Off switch	O	
1.18	Subaddress	O	
1.19	Support of Encryption A5/1 and A5/2	M	
1.20	Short Message Service Cell Broadcast DRX	O	
1.21	Service Provider Indication	O	

Descriptions are given in the appendix to GSM 02.07.

- * Mandatory where a human interface is provided, i.e. may be in-appropriate for MS driven by external equipment.

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NOTE 1: <http://standards.iteh.ai/SIST-ETS-300-505-E2-2003> The physical means of entering the characters 0-9, +, * and # may be keypad, voice input device, DTE or others, but it is mandatory that there shall be the means to enter this information.

NOTE 2: MTs with capabilities for Autocalling, or to which call initiating equipment can be connected via the "R" or "S" interface, shall restrict repeated call attempts according to the procedures described in Annex A.

NOTE 3: Emergency calls shall be possible according to Teleservice 12 (see rec GSM 02.03 and 02.30). This feature is only required to be provided by ME supporting Telephony.

NOTE 4: Support of reception by the ME and storage of SMS MT in the SIM is mandatory, but its display is optional. Reception and storage of a message shall be indicated by the MS.

NOTE 5: The use of DTMF is only mandatory when the speech teleservice is being used or during the speech phase of alternate speech/data and alternate speech/facsimile teleservices.