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Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) features (GSM 02.07 version 5.4.1)

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**Digital cellular telecommunications system (Phase 2+);
Mobile Stations (MS) features
(GSM 02.07 version 5.4.1)**

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Contents

Foreword	5
Introduction	5
1 Scope	7
1.1 Normative references	7
1.2 Definitions and abbreviations	8
2 Requirements for implementing MS features	8
Annex A (normative): Automatic calling repeat call attempt restrictions	11
Annex B (normative): Description of Mobile Station features	13
B.1.1 Display of called number	13
B.1.2 Indication of call progress signals	13
B.1.3 Country/PLMN indication	13
B.1.4 Country/PLMN selection	13
B.1.5 Keypad	13
B.1.6 IMEI	14
B.1.7 Short message indication and acknowledgement	14
B.1.8 Short message overflow indication	14
B.1.9 DTE/DCE interface	14
B.1.10 ISDN "S" terminal interface	14
B.1.11 International access function	14
B.1.12 Service Indicator (SI)	14
B.1.13 Autocalling restriction capabilities	14
B.1.14 Emergency Calls capabilities	14
B.1.15 Dual Tone Multi Frequency (DTMF)	15
B.1.16 Subscription identity management	15
B.1.17 On/Off switch	15
B.1.18 Sub-Address	15
B.1.19 Support of encryption A5/1 and A5/2	15
B.1.20 Short Message Service Cell Broadcast	15
B.1.21 Short Message Service Cell Broadcast DRX	15
B.1.22 Service Provider Indication	15
B.1.23 Support of the extended Short message cell broadcast channel	16
B.1.24 Support of Additional Call Set-up MMI Procedures	16
B.1.25 Network Identity and Timezone	16
B.1.26 Ciphering Indicator	16
B.1.27 Network's indication of alerting in the MS \$(NI Alert in MS)\$ R97	16
B.2.1 Support of supplementary services	18
B.3.1 Abbreviated dialling	18
B.3.2 Fixed number dialling	18
B.3.3 Barring of Dialed Numbers	19
B.3.4 DTMF control digits separator	20
B.3.5 Selection of directory number in messages	20
B.3.6 Last Numbers Dialed (LND)	20
B.3.7 ME-SIM lock	20
B.3.8 Service Dialling Numbers	21
Annex C (normative): GSM-MoU ID1 SIM layout	22
Annex D (informative): Change history	23
History	24

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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 specifies Mobile Station features within the digital cellular telecommunications system (Phase 2+).

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 June 1998
Date of latest announcement of this ETS (doa):	30 September 1998
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 March 1999
Date of withdrawal of any conflicting National Standard (dow):	31 March 1999

Introduction

The present document includes references to features which are not part of the Phase 2+ Release 96 of the GSM Technical specifications. All subclauses which were changed as a result of these features contain a marker (see table below) relevant to the particular feature. GSM 10.01 defines the correspondence between these features and GSM yearly releases.

The following table lists all features that were introduced after Release 96.

Feature	Marker
NI Alerting in MS	\$(NI Alert in MS)\$

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1 Scope

This European Telecommunications Standard (ETS) defines Mobile Station (MS) features and to classifies them according to their type and whether they are mandatory or optional. The MS features detailed in this ETS do not represent an exhaustive list. Those MS features which are subject to Type Approval are described in GSM 11.10 [13].

1.1 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 02.03 (ETS 300 905): "Digital cellular telecommunications system (Phase 2+); Teleservices supported by a GSM Public Land Mobile Network (PLMN)".
- [3] GSM 02.04 (ETS 300 918): "Digital cellular telecommunications system (Phase 2+); General on supplementary services".
- [4] GSM 02.11 (ETS 300 921): "Digital cellular telecommunications system; Service accessibility".
- [5] GSM 02.16: "Digital cellular telecommunications system; International Mobile station Equipment Identities (IMEI)".
- [6] GSM 02.17 (ETS 300 922): "Digital cellular telecommunications system; Subscriber identity modules; Functional characteristics".
- [7] GSM 02.30 (ETS 300 907): "Digital cellular telecommunications system (Phase 2+); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [8] GSM 02.40: "Digital cellular telecommunications system; Procedures for call progress indications".
- [9] GSM 02.90: "Digital cellular telecommunications system (Phase 2+); Stage 1 description of Unstructured Supplementary Service Data (USSD)".
- [10] GSM 03.03 (ETS 300 927): "Digital cellular telecommunications system (Phase 2+); Numbering, addressing and identification".
- [11] GSM 03.14: "Digital cellular telecommunications system; Support of Dual Tone Multi-Frequency signalling (DTMF) via the GSM system".
- [12] GSM 04.08 (ETS 300 940): "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
- [13] GSM 11.10 (ETS 300 607): "Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformity specification".
- [14] GSM 11.11 (ETS 300 977): "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

1.2 Definitions and abbreviations

For the purposes of this ETS, the following definitions apply:

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).

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

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 [13]. 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, 2 and 3 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 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: 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	M	
1.21	Short Message Service Cell Broadcast DRX	O	
1.22	Service Provider Indication	O	
1.23	Support of the extended SMS CB channel	O	
1.24	Support of Additional Call Set-up MMI Procedures	O	
1.25	Network Identity and Timezone	O	
1.26	Ciphering Indicator	M*	
1.27	Network's indication of alerting in the MS	O	\$(NI Alert in MS)\$

SIST ETS 300 906 E3:2003

Descriptions are given in annex B. <http://standards.iteh.ai/catalog/standards/sist/b9c4bde6-af75-4398-ac3c-fbbde80f4557/sist-ets-300-906-e3-2003>

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

NOTE 1: 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 GSM 02.03 [2] and GSM 02.30 [7]). 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.