

ETSI TS 122 030 V14.0.0 (2017-03)



**Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
LTE;
Man-Machine Interface (MMI) of the User Equipment (UE)
(3GPP TS 22.030 version 14.0.0 Release 14)**



Reference

RTS/TSGS-0122030ve00

Keywords

GSM,LTE,UMTS

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from:
<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at
<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:
<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2017.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPP™ and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.
GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions and abbreviations.....	7
3.1 Definitions	7
3.2 Abbreviations	7
4 General	7
4.1 Basic philosophy	7
5 Physical user input features	7
5.1 General	7
5.2 MMI related to UE features.....	8
6 Procedures	9
6.1 General	9
6.2 UE access	9
6.3 Definition of functions	9
6.4 Call Control	9
6.4.1 General.....	9
6.4.2 Voice calls	9
6.4.2.1 Mobile originated calls.....	9
6.4.2.2 Emergency calls	10
6.4.2.3 Mobile terminated calls.....	10
6.5 Supplementary Services Control	10
6.5.1 General.....	10
6.5.2 Structure of the MMI	10
6.5.3 Handling of supplementary services	12
6.5.3.1 Handling of defined supplementary services	12
6.5.3.2 Handling of not-implemented supplementary services	12
6.5.4 Registration of new password.....	15
6.5.5 Handling of supplementary services within a call	15
6.5.5.1 Call Deflection, Call Waiting, Call Hold, MultiParty Services, Explicit Call Transfer and Completion of Calls to Busy Subscriber general principles.....	15
6.5.5.2 Call Waiting (CW)	16
6.5.5.3 Call hold.....	16
6.5.5.4 MultiParty	17
6.5.5.5 Explicit Call Transfer	17
6.5.5.6 Special case	17
6.5.5.7 Call Deflection	17
6.5.5.8 Completion of calls to busy subscribers.....	17
6.5.6 Other handling of supplementary services.....	17
6.5.6.1 Multiple Subscriber Profile	17
6.5.6.1.1 Registering an alternative profile.....	17
6.5.6.1.2 Selecting an alternative profile on a per call basis.....	18
6.5.6.2 Calling Line Identification Presentation (CLIP)	18
6.5.6.2.1 Presentation of Information	18
6.5.6.3 Follow Me (FM).....	18
6.6 SIM/USIM interfaces	18
6.6.1 Entry of PIN and PIN2.....	18
6.6.2 Change of PIN or PIN2.....	18
6.6.3 Unblocking of PIN or PIN2	19

6.6.4	Reading the abbreviated dialling code	19
6.6.5	Status information - return codes	19
6.7	Presentation of IMEI	19
6.8	In Case of Emergency access procedure	20
6.9	Presentation of e-marking	20
Annex A (normative):	UE access mealy graph	21
Annex B (normative):	Codes for defined Supplementary Services	23
Annex C (normative):	Codes for Tele- and bearer services	26
Annex D (informative):	Change history	28
History		29

Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document defines the requirements for and gives guidelines on the MMI on the User Equipment (UE). This includes the requirements of the user procedures for call control and supplementary service control, the requirements on the physical input media and the output, such as indications and displayed information.

Some clauses of the present document include the requirements that are applicable only to UE connected to CS Domain. See 3GPP TS 22.101 [18]; for overall service principles and 3GPP TS 22.001 [19] for Circuit telecommunication services.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 22.004: "General on supplementary services".
- [3] 3GPP TS 22.011: "Service accessibility".
- [4] 3GPP TS 22.016: "International Mobile station Equipment Identities (IMEI)".
- [5] 3GPP TS 22.083: "Call Waiting (CW) and Call Hold (HOLD) supplementary services – Stage 1".
- [6] 3GPP TS 22.084: "MultiParty (MPTY) supplementary services – Stage 1".
- [7] 3GPP TS 22.090: "Stage 1 description of Unstructured Supplementary Service Data (USSD)".
- [8] 3GPP TS 23.038: "Alphabets and language".
- [9] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core Network Protocols – Stage 3".
- [10] 3GPP TS 24.080: "Mobile radio interface layer 3 supplementary services specification Formats and coding".
- [11] 3GPP TS 29.002 : "Mobile Application Part (MAP)".
- [12] 3GPP TS 22.081: "Line Identification Supplementary Services – Stage 1".
- [13] ITU-T Recommendation E.164: "Numbering plan for the ISDN era".
- [14] ITU-T Recommendation E.121: "Pictograms and symbols to assist users of the telephone service".
- [15] 3GPP TS 22.072: "Call Deflection; Stage 1".
- [16] 3GPP TS 22.091: "Explicit Call Transfer Supplementary Service; Stage 1".
- [17] 3GPP TS 22.093: "Call Completion to Busy Subscriber (CCBS); Stage 1".
- [18] 3GPP TS 22.101: "Service principles".
- [19] 3GPP TS 22.001: "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".