

ETSI TS 122 087 V14.0.0 (2017-03)



**Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
User-to-User Signalling (UUS);
Service description;
Stage 1
(3GPP TS 22.087 version 14.0.0 Release 14)**



Reference

RTS/TSGS-0122087ve00

Keywords

GSM,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.....	6
3.1 Definitions	6
3.2 Abbreviations	6
4 Description	7
4.1 Description	7
4.2 Applicability to telecommunication services.....	7
5 Normal procedures with successful outcome	7
5.1 Provision	7
5.2 Withdrawal	7
5.3 Registration and Erasure	8
5.4 Activation and Deactivation.....	8
5.5 Invocation.....	8
5.6 Interrogation.....	8
5.7 Handling of UUS services	8
5.7.1 Activation	8
5.7.1.1 Service 1.....	8
5.7.1.2 Service 2.....	9
5.7.1.3 Service 3.....	9
5.7.1.4 "UUS required" request.....	9
5.7.2 Invocation and operation.....	9
5.7.2.1 Service 1.....	10
5.7.2.2 Service 2.....	10
5.7.2.3 Service 3.....	10
5.7.2.4 Charging requirements	10
6 Exceptional procedures or unsuccessful outcome	10
6.1 Provision and Withdrawal	10
6.2 Registration and Erasure	10
6.3 Handling of UUS services	10
6.3.1 Activation	10
6.3.2 Invocation.....	11
7 Interactions with other supplementary services	11
7.1 Call forwarding unconditional.....	11
7.2 Call forwarding on mobile subscriber busy.....	11
7.3 Call forwarding on no reply	11
7.4 Call forwarding on mobile subscriber not reachable	12
7.5 Call waiting	12
7.6 Call hold	12
7.7 Completion of calls to busy subscribers	12
7.8 Explicit call transfer	12
7.9 Multi party service.....	12
7.10 Advice of charge	12
7.11 Barring of outgoing calls.....	13
7.12 Barring of outgoing international calls.....	13
7.13 Barring of outgoing international calls except those directed to the home PLMN country.....	13
7.14 Barring of incoming calls	13
7.15 Barring of incoming calls when roaming outside the home PLMN country.....	13

7.16 Call Deflection13

8 Interactions with other network features13

8.1 Support of Optimal Routeing13

8.2 Multicall13

9 Interworking considerations13

Annex A (informative): Deviations of the 3GPP UUS supplementary service from the ISDN service.....14

Annex B: Change history15

History16

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 User-to-User Signalling (UUS) supplementary service allows a mobile subscriber to send/receive a limited amount of information to/from another PLMN or ISDN subscriber over the signalling channel in association with a call to the other subscriber.

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 TS 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 22.004: "General on supplementary services".
- [3] 3GPP TS 22.030: "Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [4] 3GPP TS 22.135: "Multicall stage 1".

3 Definitions and Abbreviations

3.1 Definitions

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

User-to-User Information (UUI): The information transferred by using the UUS supplementary service.

UUS service: The UUS services (Service 1, 2 and 3) are components of the UUS supplementary service. If the UUS supplementary service is provided to a subscriber, she can handle the UUS services independently within a call.

Served subscriber: The subscriber who has a provision of the UUS supplementary service and who activates the UUS supplementary service. For service 1 and 2 the served subscriber is always the calling subscriber, for service 3 either the calling or the called subscriber can be the served subscriber.

Remote party: For service 1 and 2 the remote party is the called party of a call to which the UUS supplementary service is activated by the served subscriber. For service 3 the remote party can be either the called or the calling party of an established call to whom the use of the UUS supplementary service is requested by the served subscriber.

3.2 Abbreviations

For the purposes of this TS the following abbreviations apply.

UUS	User-to-User Signalling
UUI	User-to-User Information

Further GSM related abbreviations are listed in TS 21.905 [1].