

ETSI TS 122 060 V10.0.0 (2011-05)

Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
General Packet Radio Service (GPRS);
Service description;
Stage 1
(3GPP TS 22.060 version 10.0.0 Release 10)**



iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ETS TS 122 060 V10.0.0 \(2011-05\)](https://standards.itih.ai/catalog/standards/etsi/c2087450-45d8-47a1-8575-d41c9298b520/etsi-ts-122-060-v10-0-0-2011-05)

<https://standards.itih.ai/catalog/standards/etsi/c2087450-45d8-47a1-8575-d41c9298b520/etsi-ts-122-060-v10-0-0-2011-05>



Reference

RTS/TSGS-0122060va00

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

<https://standards.iteh.ai>
Document Preview

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the 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

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2011.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™**, **TIPHON™**, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

LTE™ is a Trade Mark of ETSI currently being 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 (<http://webapp.etsi.org/IPR/home.asp>).

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

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

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>.

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[ETSI TS 122 060 V10.0.0 \(2011-05\)](https://standards.iteh.ai/catalog/standards/etsi/c2087450-45d8-47a1-8575-d41c9298b520/etsi-ts-122-060-v10-0-0-2011-05)

<https://standards.iteh.ai/catalog/standards/etsi/c2087450-45d8-47a1-8575-d41c9298b520/etsi-ts-122-060-v10-0-0-2011-05>

Contents

Intellectual Property Rights	2
Foreword.....	2
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions and abbreviations.....	7
3.1 Definitions	7
3.2 Abbreviations	9
4 Main Concepts.....	10
5 Service Requirements.....	11
5.1 GPRS reference model	11
5.1.1 Bearer services	11
5.1.2 (Void).....	11
5.1.3 (Void).....	11
5.2 Network Interworking	11
5.2.1 Interworking with other data networks and other PLMNs.....	12
5.2.1.1 QoS when Interworking	12
5.2.2 GPRS Numbering Plan	12
5.2.3 Addressing and routing requirements	12
5.2.3.1 PTP network layer services	12
5.2.4 Interworking for subscriber roaming	12
5.3 GPRS service description	12
5.3.1 Point-To-Point Connectionless Network Service (PTP-CLNS)	13
5.3.2 (Void).....	13
5.3.3 Point-To-Multipoint (PTM) service overview	13
5.4 Service interworking	14
5.5 Transfer Characteristics.....	14
5.6 Service characteristics	15
5.6.1 Subscriber profile.....	15
5.6.2 Quality of Service (QoS)	15
5.6.2.1 QoS parameter definitions.....	15
5.6.2.1.1 Service precedence (priority).....	15
5.6.2.1.2 Reliability	15
5.6.2.1.3 Delay	16
5.6.2.1.4 Throughput	16
5.6.2.2 QoS profile - PTP.....	17
5.6.2.3 Monitor	17
5.6.3 Packet size	17
6 Operational Requirements.....	17
6.1 GPRS UE Modes of Operation.....	17
6.1.1 GPRS UE classes	17
6.1.2 UE support for SMS over GPRS	19
6.2 Subscriber roaming.....	19
6.3 Construction of GPRS subscriber numbers	19
6.4 Battery life extension.....	19
6.5 Format Of Message User Data	19
6.6 Charging aspects	20
6.6.1 PTP and IP-M charging information.....	20
6.6.2 Reverse Charging.....	20
6.7 Security services.....	20
6.8 Message Screening	21
6.9 GPRS Operator Determined Barring.....	21