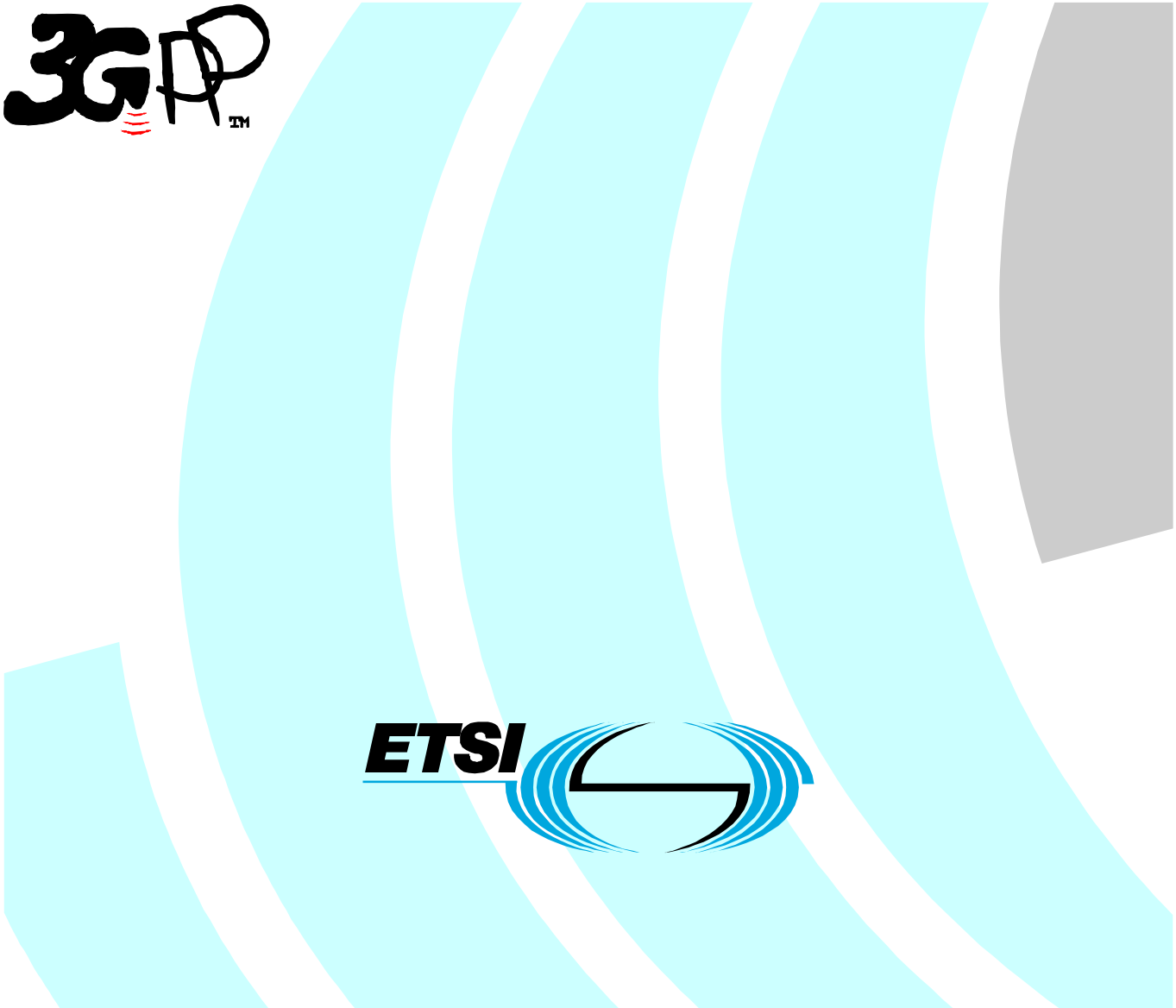
ETSI TS 132 215 V5.9.0 (2005-06)

Technical Specification

Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Charging management;
Charging data description for the
Packet Switched (PS) domain
(3GPP TS 32.215 version 5.9.0 Release 5)



Reference
RTS/TSGS-0532215v590

Keywords
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

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 .

Contents

Foreword

This Technical Specification (TS) has been produced by the 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 GSM and UMTS PLMN support a wide range of packet based services by means of the General Packet Radio Service (GPRS), as defined in 3GPP TS 22.060 [1] and 3GPP TS 23.060 [2]. In order to enable operators the ability to provide a commercially viable service, there is a need to provide charging functions. For GPRS these functions include the generation of Charging Data Records (CDRs) by the Serving GPRS Support Node (SGSN) and the Gateway GPRS Support Node (GGSN) as well as the transport of these CDRs to a Billing System (BS) through a Charging Gateway Function (CGF).

The present document is part of a series of documents specifying charging functionality in UMTS networks. The UMTS charging architecture and principles are specified in document TS 32.200 [3] which provides an umbrella for other charging documents that specify the structure and content of the CDRs and the interface protocol that is used to transfer them to the collecting node. The CDRs content and transport within the PS domain are described in the present document. The CDRs used in the Circuit Switched (CS) domain are specified in document TS 32.205 [4] while CDRs used for application services are defined in document TS 32.235 [5]. The present document structure is depicted in figure 1.

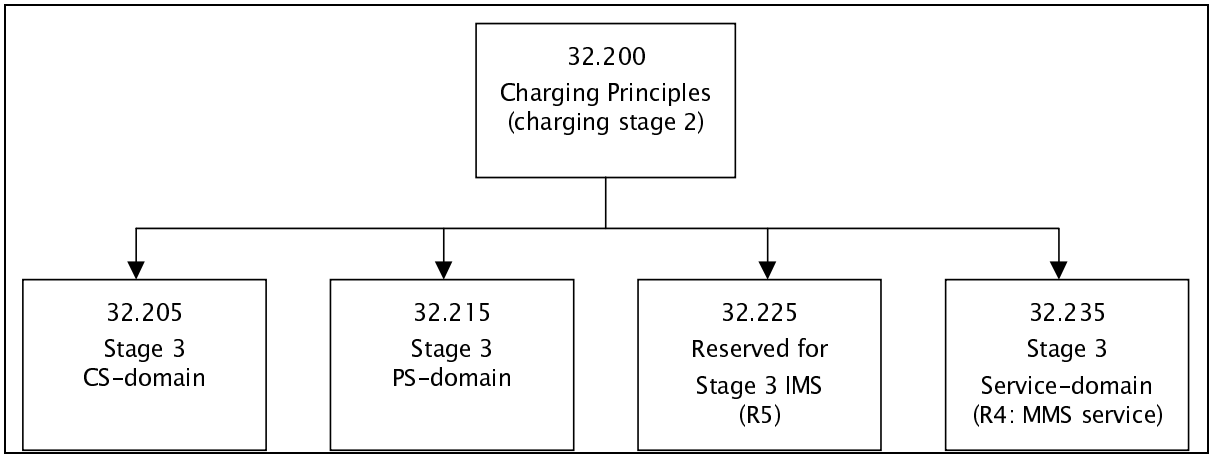


Figure 1: Charging Documents Structure

All references, abbreviations, definitions, descriptions, principles and requirements that are common to charging in UMTS domains or subsystems are provided in the umbrella document [3]. To avoid unnecessary duplications, they are not repeated in the present document unless it is essential.

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 22.060: "General Packet Radio Service (GPRS); Service description; Stage 1".

[2] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".

[3] 3GPP TS 32.200: "Telecommunication management; Charging management; Charging principles".