ETSI TR 123 039 V3.2.0 (2000-09)

Technical Report

Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
Interface protocols for the connection of Short Message
Service Centres (SMSCs) to Short Message Entities (SMEs)
(3GPP TR 23.039 version 3.2.0 Release 1999)

**GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS**

Reference
RTR/TSGT-0223039UR1

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

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://www.etsi.org/tb/status/

If you find errors in the present document, send your comment to:
editor@etsi.fr

ETSI

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://www.etsi.org/ipr).

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 Report (TR) has been produced by the 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 www.etsi.org/key .

Contents

Foreword

This Technical Report has been produced by the 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 this TR, 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   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 specification;

1   Scope

The present document describes a range of alternative interfaces which may be utilised by Short Message Service Centre (SMSC), and Short Message Entity (SME), developers for the connection of SMEs to SMSCs.

The purpose of the present document is to provide a single document within which the various proprietary SMSC to SME interface standards may be accommodated as optional implementations.

As stated in 3G TS 23.040 [1], the functionality of the SMSC is outside of the scope of the 3GPP Technical Specifications. As a result, no standardised interfaces have been specified for the connection of SMEs to the SMSC. In the absence of a prevailing standard, SC (Service Centre), developers have devised their own protocols which have not necessarily been based on any existing standards and are therefore largely incompatible with one another.

This document by referring to the various de-facto protocols will limit the further proliferation of proprietary standards and will benefit new SC/SME developers who may then adopt one or more of the existing protocols outlined in the present document.

This document does not provide recommendations, as to the preferred protocol implementation as all are regarded as being of equal merit. SC/SME implementors should therefore adopt the protocol most suited to their particular implementation, application or market.

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.

- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

  [1]   3GPP TS 23.040 :"Technical realization of the Short Message Service (SMS)".

3   SC to SME interface protocols

The proprietary SC to SME interface protocols specifications are listed as follows:

3.1   **Short Message Peer to Peer (SMPP) Interface Specification (SMPP Forum)**

               Specification available from :- www.smpp.org

3.2   **Short Message Service Centre external machine interface (Computer Management Group)**

               Specification available from:- www.cmgtelecom.com

3.3   **SMSC to SME Interface Specification (Nokia Networks)**

               Specification available from:- cimd.support@nokia.com

3.4   **SMSC Open Interface Specification (SEMA Group)**

               Specification available from:- www.semagroup.com/m&t/telecoms.htm

3.5 **SMSC Computer Access Service And Protocol Manual (Ericsson)**

Specification available from:-   Ericsson Compitex AB, Telephone number +46 31 7099000

NOTE: 3GPP takes no responsibility for the viability of any of the optional SC to SME interface protocols referred to. Enquires relating to their technical content should be made directly to the editing authority for each specification.

Annex A (informative):
Change history

TSG-T No.	TDoc. No.	CR. No.	New version	Subject/Comments
T#4		New	3.0.0	Creation of 3GPP 23.039 v3.0.0 out of GSM 03.39 v6.0.0
T#6	TP-99237	001	3.1.0	Adaptations for UMTS (and deletion of interface protocols replacing them by references)
T#9	TP-000143	002	3.2.0	Clarification of SC to SME protocol reference information.

History

Document history		
V3.1.0	January 2000	Publication
V3.2.0	September 2000	Publication