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3rd Generation Partnership Project;
Technical Specification Group Terminals;
Interface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)
(Release 5)

GSM

**GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS**

3GPP

Keywords

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Foreword

This Technical Specification 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 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 3GPP 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. 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 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.
T#11	-	-	4.0.0	Upgrade to Rel-4
T#16	-	-	5.0.0	Upgrade to Rel-5