

ETSI TS 103 912 V1.1.1 (2002-08)

Technical Specification

**Access and Terminals (AT);
Short Message Service (SMS) for PSTN/ISDN;
Short Message Communication between
a fixed network Short Message Terminal Equipment
and a Short Message Service Centre
(Corrections to ES 201 912 V1.1.1)**



Reference

DTS/AT-030017

Keywords

ISDN, point-to-point, PSTN, SMS, user

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

If you find errors in the present document, send your comment to:

editor@etsi.fr

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 2002.
All rights reserved.

DECTTM, **PLUGTESTS**TM and **UMTS**TM are Trade Marks of ETSI registered for the benefit of its Members.
TIPHONTM and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members.
3GPPTM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Contents

Intellectual Property Rights	4
Foreword.....	4
1 Scope	5
2 References	5
3 Abbreviations	5
4 General	5
5 Corrections to clauses and annexes in version 1.1.1 of ES 201 912	5
History	10

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 Technical Committee Access and Terminals (AT).

1 Scope

The present document identifies corrections of the ES 201 912 V1.1.1 [1]. The intention is to incorporate these corrections into a new version of ES 201 912.

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

[1] ETSI ES 201 912 (V1.1.1): "Access and Terminals (AT); Short Message Service (SMS) for PSTN/ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre".

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

APP	APPLication
CM	ConneCtion Management
DLC	Data Link Control
DLL	Data Link Layer
SM	Short Message(s)
SMS	Short Message Service
SM-SC	Short Message Service Centre
SM-TE	Short Message Terminal Equipment
TL	Transfer Layer

4 General

Some necessary corrections and explanations have been found in the published version of ES 201 912 [1]. These corrections are given in the present document.

5 Corrections to clauses and annexes in version 1.1.1 of ES 201 912

The following corrections are necessary:

Clause 3.2

Delete the following:

DLC	Data Link Control
-----	-------------------

Clause 5.3.2.1

Replace the following text:

"The maximum payload of one Data Link Layer message is corresponding to the maximum message length of the Transfer Layer, which is 176 bytes. In case of Transfer Layer messages larger than 176 byte the Data Link Layer shall segment this messages using the mechanism of extension bits in the message type coding.

The Data Link Layer message format is similar to the message format of the off-hook caller ID information described in EN 300 659-2 [7]."

With:

"The maximum payload of one Data Link Layer message is corresponding to the maximum message length of the Transfer Layer, which is 176 bytes. In case of future Transfer Layer messages larger than 176 byte the Data Link Layer shall segment this messages using the mechanism of extension bits in the message type coding.

NOTE: See clause 5.3.3.1 for information about the Transfer Layer, TL Message lengths and TL features like the Short Message Concatenation which allows the transfer of "long" SMS with up to 39 015 characters.

The Data Link Layer message format is similar to the message format of the off-hook caller ID information described in EN 300 659-2 [7]."

Clause 5.5.6

Replace the following text in table 3, second row, column "Incoming Call, Deliver Mode Identifier = 0":

"The SM-TE shall accept the call and reject the SM with the TL message SMS_SUBMIT_REPORT, failure cause "SIM SMS storage full" (see TS 100 901 [3], TP-FCS)."

With:

"The SM-TE shall accept the call and reject the SM with the TL message SMS_DELIVER_REPORT, failure cause "SIM SMS storage full" (see TS 100 901 [3], TP-FCS)."

Clause 5.5.7

Replace the following text:

"If there is a SM to submit, the SM-TE shall dial the number of the SM-SC which is stored in the SM-TE, extended by its own SME Subaddress and the digit "0"."

With:

"If there is an SM to submit, the SM-TE shall dial the basic number of the SM-SC which is stored in the SM-TE, extended by its own SME Subaddress and the digit "0"."

Clause 6.3.2.1

Replace the following text:

"The DLL_SMS_NACK, DLL_SMS_ENQ and DLL_SMS_REL messages do not have a Transfer Layer (DLC Message Length = 0) and therefore cannot be segmented."

With:

"The DLL_SMS_NACK, DLL_SMS_ENQ and DLL_SMS_REL messages do not have a Transfer Layer (DLL Message Length = 0) and therefore cannot be segmented."

Replace the following text:

"The Slave shall include the TL Confirmation or Rejection in the payload of the DLL_SMS_ACKx message, as soon as available."

With:

"The Slave shall include the TL Confirmation or Rejection in the payload of the DLL_SMS_ACKx message, as soon as available (after having received the complete TL message)."

Replace the following text:

"The Master uses the DLL_SMS_ENQ message to maintain active the DLL while waiting for the reception of a response from the TL, for a maximum of Nwait times.

On receiving a DLL_SMS_ENQ, the Slave shall send again the last acknowledgement sent, including the TL response in its payload, if available."

With:

"The Master uses the DLL_SMS_ENQ message to maintain active the DLL while waiting for the reception of a response from the TL, for a maximum of Nwait+1 times (afterwards, if also the Nwait+1 DLL_SMS_ENQ message is acknowledged by the Slave with a DLL_SMS_ACKx message with null payload, the Master shall send the DLL_SMS_REL message or hangs on).

On receiving a DLL_SMS_ENQ, the Slave shall send again the last positive acknowledgement sent, including the TL response in its payload, if available."

Clause 6.3.2.2

Replace the following text:

"In case the Master does not receive the expected acknowledgement (loss of frame) it sends the DLL_SMS_ENQ message to recover the error. Depending on the DLL_SMS_ACKx received the Master will understand if the frame lost was the message previously sent or the correspondent acknowledgement.

The connection shall be released by both entities if the error is still present after three consecutive recovery attempts (see Nretry counter in table 8)."

With:

"In case the Master does not receive the expected acknowledgement (loss of frame) it sends the DLL_SMS_ENQ message to recover the error. Depending on the DLL_SMS_ACKx received the Master will understand if the frame lost was the message previously sent or the correspondent acknowledgement.

In case the Master receives an out of sequence acknowledgement (i.e. a DLL_SMS_ACK0 when a DLL_SMS_ACK1 is expected or viceversa), it shall release the connection (hanging on).

The connection shall be released by the Master if the error is still present after two consecutive recovery attempts (see Nretry counter in table 8)."

Clause 6.3.2.3

Replace the following text in table 6, row "Tm5", column "Start":

"Reception of a positive acknowledgement without TL corresponding to a non extended info message or to a DLL_SMS_ENQ message sent to maintain active the Data Link layer."

With:

"Reception of a positive acknowledgement without TL corresponding to a non extended info message (or to the last segment of an extended info message) or to a DLL_SMS_ENQ message sent to maintain active the Data Link layer."

Clause 6.3.2.4

Replace table 8 with the following table:

Table 8: Counters

Name	Description	Value
Nretry	Maximum number of times a message negatively acknowledged shall be sent again. Maximum number of times a DLL_SMS_ENQ message or a DLL_SMS_REL message not receiving any DLL message in response or receiving an acknowledgement with DLL error shall be sent again.	2
Nwait	Maximum number of times an ENQ message shall be sent again to maintain the Data Link level active, in case there are no errors.	49

Clause 6.3.3.1

Add the following TL message:

SM-TE_CAPABILITY used by the SM-TE for informing the SM-SC about its capabilities

Replace the following parameter:

1Ah - E mail Address (max length: 256)

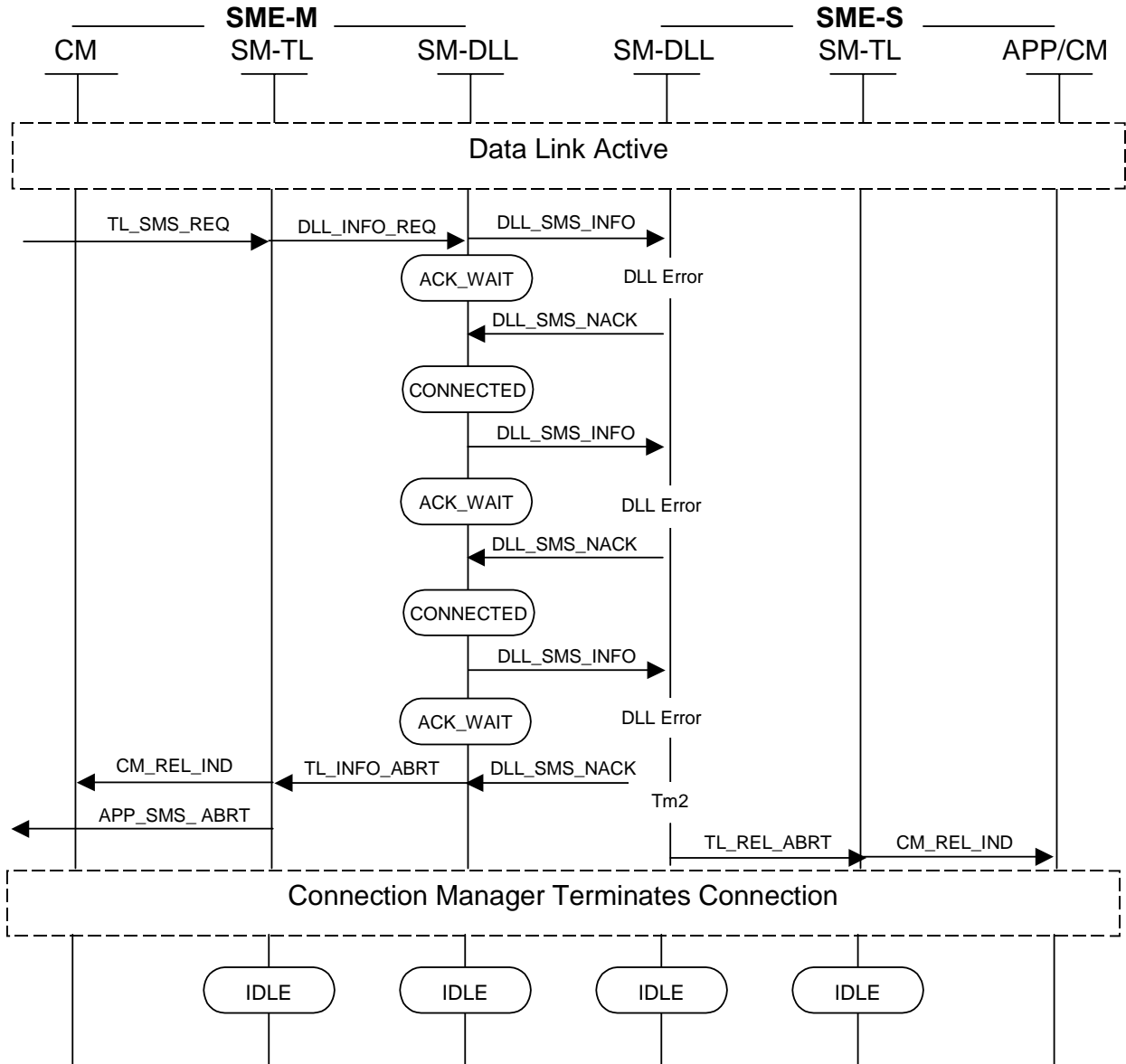
With:

1Ah - Mail Address (max length: 256)

Annex B

Clause B.1.3.9

Replace figure B.1.3.9 with the following figure so that Tm2 is now included:



Clause B.2.1.3

Insert the following row above the last row of table B.2.10:

Calling Terminal Identity	Clause: Calling Terminal Identity Parameter Format.	Optional
---------------------------	---	----------

History

Document history		
V1.1.1	August 2002	Publication