



AMENDMENT

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A1

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**This amendment A1 modifies
the European Telecommunication Standard ETS 300 558 (February 1995)**

**European digital cellular telecommunications system (Phase 2);
Mobile radio interface layer 3
Supplementary services specification
General aspects
(GSM 04.10)**

ETSI

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Foreword

This Amendment to ETS 300 558 (February 1995) has been produced by the Special Mobile Group (SMG) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This Amendment to ETS 300 558 (February 1995) corresponds to the changes to GSM Technical Specification (GSM-TS) 04.10 from version 4.8.1 to version 4.9.0, as approved by TC-SMG.

This Amendment modifies pages 23, 25, 26, 27, 28, 29, and 32 of ETS 300 558 (February 1995).

Amendments

Page 23, subclause 4.2.

Replace the existing third paragraph with the following:

"When the mobile subscriber wants to register a new password the old password, the new password and the repeat of the new password shall be entered into the MS. Then the MS sends to the network an invoke component of the operation "register password"."

Page 25, subclause 5.1.

Insert the following new second paragraph:

"This section describes compatibility procedures for radio interface SS operations. In this section the term "SS operation" refers to one of the operations sent in the Facility IE as defined in TS GSM 04.08 and TS GSM 09.02. An "MS initiated operation" is an SS operation where the MS sends the invoke component. A corresponding definition applies to network initiated operations."

Page 25, subclause 5.3.

Replace the existing first paragraph with the following:

"The purpose of the SS compatibility procedures is to ensure that when a service is invoked the highest common version of the service protocol is used in the entities supporting that service. The highest protocol version gives the best level of service to the subscriber. The commonality of versions between entities provides compatibility."

Page 26, subclause 5.4.

Insert the following new note after the main text:

"NOTE: These compatibility mechanisms are flexible, and could be applied in ways outside the scope of this standard. In general, mobile stations and networks should support complete implementations of supplementary services (e.g. mobile initiated USSD) including all elements that are not explicitly indicated as manufacturer or operator options. Complete support for a service also implies that the necessary compatibility indicators are set to appropriate values. If the mobile station or network does not implement all the elements necessary to support a service then the user may receive only a subset of the complete service. Such a mobile station or network is outside the scope of this standard and may:

- provide a version of the service that is unpredictable or inconsistent;
- fail to meet important service requirements;
- be incompatible with other entities."

Page 26, subclause 5.4.1

Replace the text of subclause 5.4.1 with the following new text:

"The SS screening indicator is sent by the MS at the beginning of the radio connection to allow the network to assess the capabilities of the MS and hence determine,

- whether a particular network initiated SS operation may be invoked; or
- what version of a network initiated SS operation should be invoked.

The SS screening indicator is only relevant to network initiated SS operation and is valid for the duration of a radio connection. The coding of the SS screening indicator is described in TS GSM 04.08 and GSM 04.80.

Page 26, subclause 5.4.2

Replace the text of subclause 5.4.2 with the following new text:

"The SS version indicator is sent by the MS and is associated with one or more related SS operations. It indicates to the network the correct version of radio interface protocol and procedures to use for those SS operations. For call related SSs the version indicator is valid for the invocation period of the SS operation to which it was attached (i.e. the validity of the invoke ID). For call independent SSs the indicator is valid for the duration of the call independent transaction. The SS version indicator takes precedence over the screening indicator during its period of validity. The coding of the SS version indicator is described in TS GSM 04.08 and GSM 04.80."

Page 27, subclause 5.5.1.2

Replace the existing second paragraph with the following:

"On invocation of any network SS operation (unless an SS version indicator has taken precedence over the screening indicator) the network shall check the screening indicator status. If the screening indicator was not sent, the network shall screen information sent to the MS, i.e. invoke the phase 1 version of the operation or abort the invocation if only a phase 2 version is available. If the screening indicator was received, indicating that phase 2 error handling and extension mechanisms are supported at the MS, the network shall invoke the highest supported version of the operation toward the MS."

Replace the existing fifth paragraph with the following:

"If the value of the screening indicator is unrecognised the network shall attempt to handle network initiated SS operations as if the MS had indicated the highest values supported by the network."

Page 27, subclause 5.5.2.1.

Replace the text of subclause 5.5.2.1. with the following new text:

"If a SS operation has been initiated at the MS, and the MS supports phase 2 TS GSM 04.10 error handling and the phase 2 TS GSM 04.80 extension mechanism and the operations used by the mobile initiated procedure are implemented according to the phase 2 GSM standards, then:

- in the case of call independent activity, the MS shall send the SS version indicator at the beginning of the transaction indicating the version of the SS operation being invoked. No further indication shall be sent by the MS during the transaction. No operations shall be sent within the same transaction which are not compliant with the SS version indicated.
- in the case of call related activity, the MS shall send the SS version indicator in the TS GSM 04.08 message containing the invoke component of the related operation. The version of the service being invoked is indicated. This procedure applies on a per operation basis and shall be repeated for each call related operation."

Page 28, subclause 5.5.2.2.1.

Replace the existing first sentence of the second paragraph with the following:

"The network shall use this indication to establish the correct MAP application context in the network for the processing of all operations made on that transaction."

Replace the existing third paragraph with the following:

"The screening indicator shall not be taken into account for processing transactions that start with MS initiated operations."

Page 29, subclause 5.6.

Replace the existing third paragraph with the following:

"Non-compatible protocol changes, i.e. the introduction of mandatory protocol elements or new operations shall cause an increment in the protocol version. This shall be reflected in the use of the SS version indicator. Amendments to the phase 2 services shall specify in the relevant stage 3 specification which value of the SS version indicator to use for MS initiated operations."

Page 32, Annex A, clause A.3.

Replace the existing first paragraph with the following:

"The contents of messages is specified below the arrow. The diagrams do not show the SS version indicator, or other parts of the message contents unless they are directly related to the service shown. The names of relevant information elements are shown, and the associated contents is shown in brackets."

History

Document history	
February 1995	First Edition of ETS 300 558
March 1995	Unified Approval Procedure UAP : 1995-03-06 to 1995-06-30
July 1995	Amendment 1 to First Edition of ETS 300 558 (February 1995)
November 1995	Converted into Adobe Acrobat Portable Document Format (PDF)
Note	<p>The references to the changed pages in the standard refer to an old presentation. See history box at the end of the standard itself.</p> <p>The new presentation format, applied from 1 December 1995, might have different page numbering. The clause numbering has not changed.</p>