



**SLOVENSKI STANDARD  
SIST ETS 300 977 E4:2003**

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Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the  
Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.11 version  
5.9.1)

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**ICS:**

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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**Digital cellular telecommunications system (Phase 2+);  
Specification of the Subscriber Identity Module -  
Mobile Equipment (SIM - ME) interface  
(GSM 11.11 version 5.9.1)**

**ETSI**

European Telecommunications Standards Institute

**ETSI Secretariat**

**Postal address:** F-06921 Sophia Antipolis CEDEX - FRANCE

**Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

**Internet:** [secretariat@etsi.fr](mailto:secretariat@etsi.fr) - <http://www.etsi.org>

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG) of the European Telecommunications Standards Institute (ETSI).

This ETS defines the interface between the Subscriber Identity Module (SIM) and the Mobile Equipment (ME) for use during the network operation phase of GSM as well as those aspects of the internal organization of the SIM which are related to the network operation phase, within the digital cellular telecommunications system (Phase 2/Phase 2+).

This ETS is a GSM technical specification version 5 and is part of the 1996 release of the GSM Technical Specifications.

The specification from which this ETS has been derived was originally based on CEPT documentation, hence the presentation of this ETS may not be entirely in accordance with the ETSI/PNE Rules.

Transposition dates	
Date of adoption of this ETS:	23 October 1998
Date of latest announcement of this ETS (doa):	31 January 1999
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 July 1999
Date of withdrawal of any conflicting National Standard (dow):	31 July 1999

## Introduction

The present document includes some references to features which are not part of the original Phase 2+ release of the GSM Technical specifications. All subclauses which were changed as a result of these features contain a marker (see table below) relevant to the particular feature. GSM 10.01 will contain further information about these markers and GSM yearly releases.

The following table lists all new features that were introduced to this document after version 5.5.0. Changes that were made as corrections to existing features are not listed in this table. It should be noted that following a decision made at ETSI SMG #25 requiring that all specifications containing a release 97 workitem be released as a version 6.x.y. Consequently, new release 97 features approved at or after ETSI SMG #25 are found only in the version 6.x.y of the present document.

Feature	Release	Marker
Extended Language Preference	1997	\$(ELP)\$
Short Message Status reports	1997	\$(SMSR)\$
Option that a SIM with a disabled CHV can remain unblocked	1997	\$(UnBkSIM)\$
Network's indication of alerting in the MS	1997	\$(NIA)\$
Dialling Numbers and extensions	1997	\$(DNE)\$
Support of USC2 character set	1997	\$(UCS2)\$
Mobile Originated Short Message Control by SIM	1997	\$(MOSMcontrol)\$

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## 1 Scope

This European Telecommunication Standard (ETS) defines the interface between the Subscriber Identity Module (SIM) and the Mobile Equipment (ME) for use during the network operation phase of GSM as well as those aspects of the internal organization of the SIM which are related to the network operation phase. This is to ensure interoperability between a SIM and an ME independently of the respective manufacturers and operators. The concept of a split of the Mobile Station (MS) into these elements as well as the distinction between the GSM network operation phase, which is also called GSM operations, and the administrative management phase are described in the GSM 02.17 [6].

This ETS defines:

- the requirements for the physical characteristics of the SIM, the electrical signals and the transmission protocols;
- the model which shall be used as a basis for the design of the logical structure of the SIM;
- the security features;
- the interface functions;
- the commands;
- the contents of the files required for the GSM application;
- the application protocol.

Unless otherwise stated, references to GSM also apply to DCS 1800.

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This ETS does not specify any aspects related to the administrative management phase. Any internal technical reallocation of either the SIM or the ME are only specified where these reflect over the interface. This ETS does not specify any of the security algorithms which may be used.

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This ETS defines ~~the SIM/ME interface for GSM Phase 1~~<sup>the SIM/ME interface for GSM Phase 1 and 2</sup>. While all attempts have been made to maintain phase compatibility, any issues ~~that specifically relate to Phase 1~~<sup>that specifically relate to Phase 1 and 2</sup> should be referenced from within the relevant Phase 1 specification.

## 2 Normative references

This European Telecommunication Standard (ETS) incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] GSM 01.02: "Digital cellular telecommunications system (Phase 2+); General description of a GSM Public Land Mobile Network (PLMN)".
- [2] GSM 01.04 (ETR 350): "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [3] GSM 02.07 (ETS 300 906): "Digital cellular telecommunications system (Phase 2+); Mobile Stations (MS) features".
- [4] GSM 02.09 (ETS 300 920): "Digital cellular telecommunications system; Security aspects".
- [5] GSM 02.11 (ETS 300 921): "Digital cellular telecommunications system; Service accessibility".
- [6] GSM 02.17 (ETS 300 922): "Digital cellular telecommunications system; Subscriber Identity Modules (SIM) Functional characteristics".

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- [7] GSM 02.24 (ETS 300 923): "Digital cellular telecommunications system; Description of Charge Advice Information (CAI)".
- [8] GSM 02.30 (ETS 300 907): "Digital cellular telecommunications system (Phase 2+); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [9] GSM 02.86: "Digital cellular telecommunications system; Advice of charge (AoC) Supplementary Services - Stage 1".
- [10] GSM 03.03 (ETS 300 927): "Digital cellular telecommunications system (Phase 2+); Numbering, addressing and identification".
- [11] GSM 03.20 (ETS 300 929): "Digital cellular telecommunications system; Security related network functions".
- [12] GSM 03.38 (ETS 300 900): "Digital cellular telecommunications system (Phase 2+); Alphabets and language-specific information".
- [13] GSM 03.40 (ETS 300 901): "Digital cellular telecommunications system (Phase 2+); Technical realization of the Short Message Service (SMS) Point-to-Point (PP)".
- [14] GSM 03.41 (ETS 300 902): "Digital cellular telecommunications system (Phase 2+); Technical realization of Short Message Service Cell Broadcast (SMS-BC)".
- [15] GSM 04.08 (ETS 300 940): "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".  
***This STANDARD PREVIEW IS SUBJECT TO CHANGE***
- [16] GSM 04.11 (ETS 300 942): "Digital cellular telecommunications system (Phase 2+); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [17] ~~GSM 09.91 (ETR 174) (ETR 174) pg/sta/31fc-a1d3-1618-1826~~: "Digital cellular telecommunications system; Interworking aspects of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface between Phase 1 and Phase 2".
- [18] CCITT Recommendation E.118: "The international telecommunication charge card".
- [19] CCITT Recommendation E.164: "Numbering plan for the ISDN era".
- [20] CCITT Recommendation T.50: "International Alphabet No. 5". (ISO 646: 1983, Information processing - ISO 7-bits coded characters set for information interchange).
- [21] ISO/IEC 7810 (1995): "Identification cards - Physical characteristics".
- [22] ISO/IEC 7811-1 (1995): "Identification cards - Recording technique - Part 1: Embossing".
- [23] ISO/IEC 7811-3 (1995): "Identification cards - Recording technique - Part 3: Location of embossed characters on ID-1 cards".
- [24] ISO 7816-1 (1987): "Identification cards - Integrated circuit(s) cards with contacts, Part 1: Physical characteristics".
- [25] ISO 7816-2 (1988): "Identification cards - Integrated circuit(s) cards with contacts, Part 2: Dimensions and locations of the contacts".
- [26] ISO/IEC 7816-3 (1989): "Identification cards - Integrated circuit(s) cards with contacts, Part 3: Electronic signals and transmission protocols".

- [27] GSM 11.14: "Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".
- [28] GSM 11.12 (ETS 300 641): "Digital cellular telecommunications system (Phase 2); Specification of the 3 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".
- [29] GSM 02.22: "Digital cellular telecommunications system (Phase 2+); Personalization of GSM Mobile Equipment (ME) Mobile functionality specification".
- [30] ISO 639 (1988): "Code for the representation of names of languages".
- [31] ISO/IEC10646: "Universal Multiple-Octet Coded Character Set (UCS); UCS2, 16 bit coding".

### 3 Definitions, abbreviations and symbols

#### 3.1 Definitions

For the purposes of this ETS, the following definitions apply. For further information and definitions refer to GSM 01.02 [1].

**access conditions:** A set of security attributes associated with a file.

**application:** An application consists of a set of security mechanisms, files, data and protocols (excluding transmission protocols).

**application protocol:** The set of procedures required by the application.

**card session:** A link between the card and the external world starting with the ATR and ending with a subsequent reset or a deactivation of the card.

**current directory:** The latest MF or DF selected.

**current EF:** The latest EF selected.

**data field:** Obsolete term for Elementary File.

**Dedicated File (DF):** A file containing access conditions and, optionally, Elementary Files (EFs) or other Dedicated Files (DFs).

**directory:** General term for MF and DF.

**Elementary File (EF):** A file containing access conditions and data and no other files.

**file:** A directory or an organized set of bytes or records in the SIM.

**file identifier:** The 2 bytes which address a file in the SIM.

**GSM or DCS 1800 application:** Set of security mechanisms, files, data and protocols required by GSM or DCS 1800.

**GSM session:** That part of the card session dedicated to the GSM operation.

**IC card SIM:** Obsolete term for ID-1 SIM.

**ID-1 SIM:** The SIM having the format of an ID-1 card (see ISO 7816-1 [24]).

**Master File (MF):** The unique mandatory file containing access conditions and optionally DFs and/or EFs.