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Digital cellular telecommunications system (Phase 2+) (GSM); GSM Cordless Telephony System (CTS), Phase 1; CTS supervising system layer 3 specification (GSM 04.57 version 7.0.3 Release 1998)

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# ETSI EN 302 407 V7.0.3 (2000-08)

*European Standard (Telecommunications series)*

**Digital cellular telecommunications system (Phase 2+);  
GSM Cordless Telephony System (CTS), Phase 1;  
CTS supervising system layer 3 specification  
(GSM 04.57 version 7.0.3 Release 1998)**

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MOBILE COMMUNICATIONS

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Special Mobile Group (SMG).

The present document was submitted to Public Enquiry with the ETSI number 301 407. For Vote the number was changed to 302 407 because the number 301 407 is reserved and was allocated accidentally.

The present document specifies the procedures used at the CTS radio interface (Reference Point Um\*, see GSM 03.56) for Call Control (CC), Mobility Management (MM) and Radio Resource (RR) management within the European digital cellular telecommunications system.

The contents of the present document are subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of the present document it will then be republished by ETSI with an identifying change of release date and an increase in version number as follows:

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7 GSM Phase 2+ Release 1998

y the third digit is incremented when editorial only changes have been incorporated in the specification;

x the second digit is incremented for all other types of changes, i.e. technical enhancements, corrections, updates, etc.

### National transposition dates

Date of adoption of this EN:	21 July 2000
Date of latest announcement of this EN (doa):	31 October 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 April 2001
Date of withdrawal of any conflicting National Standard (dow):	30 April 2001



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# 1 Scope

The present document specifies the procedures used at the CTS system interface with the supervision part i.e. the interface between the CTS-FP and the CTS-SN.

Only CTS regular supervising procedures are described; FMC management is not intended to be standardised.

The present document does not specify the transmission layer but only the layer 3.

When the notations for "further study" or "FS" or "FFS" are present in the present document they mean that the indicated text is not a normative portion of the present document.

The structured functions and procedures of this protocol and the relationship with other layers and entities are described in general terms in GSM 04.07.

## 1.1 Scope of the Technical Specification

The procedures currently described in the present document are for supervising management over the CTS-FP/CTS-SN interface.

## 1.2 Application to the interface structures

The layer 3 procedures apply to the interface structures defined in GSM 04.03. GSM 04.07 gives the general description of layer 3 including procedures, messages format and error handling.

## 1.3 Structure of layer 3 procedures

A building block method is used to describe the layer 3 procedures.

The basic building blocks are "elementary procedures", provided by the protocol control entities.

Complete layer 3 transactions consist of specific sequences of elementary procedures. The term "structured procedure" is used for these sequences.

## 1.4 Test procedures

Test procedures of the CTS / Fixed Network interface signalling are described in the GSM 11.56 series.

## 1.5 Transmission layer

The transmission layer is out of scope of the present document. One implementation could be a V.22bis modem with an HDLC based protocol.

## 1.6 Overview of control procedures

### 1.6.1 List of procedures

The following procedures are specified in the present document:

Section 4 specifies elementary procedures for CTS Supervising Management

- CTS-FP initialisation procedure (subclause 4.4.1);
- CTS-FP de-initialisation procedure (subclause 4.4.5);

- CTS enrolment procedure (subclause 4.4.2);
- CTS de-enrolment procedure (subclause 4.4.6);
- CTS operation data update procedure (subclause 4.4.3);
- CTS information request procedure (subclause 4.4.4);
- CTS FP authentication procedure (subclause 4.4.7);
- CTS MS authentication procedure (subclause 4.4.8).

The elementary procedures can be combined to form structured procedures. Examples of such structured procedures are given in section 5. This part of the Technical Specification is only provided for guidance to assist implementations.

Section 6 specifies actions to be taken on various error conditions and also provides rules to ensure compatibility with future enhancements of the protocol.

## 1.7 Applicability of implementations

The applicability of procedures of the present document for the fixed part is dependent on the services and functions which are to be supported by a fixed part.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- ITih STANDARD PREVIEW  
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- 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.
  - For this Release 1998 document, references to GSM documents are for Release 1998 versions (version 7.x.y).
- SIST EN 302 407 V7.0.3:2003  
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- [12] GSM 03.14: "Digital cellular telecommunications system (Phase 2+); Support of Dual Tone Multi-Frequency signalling (DTMF) via the GSM system".
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- [14] GSM 03.22: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode".
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