



# SLOVENSKI STANDARD SIST ETS 300 967 E2:2003

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8 [[ [HJb]`W] b]`h`Y\_ca i b]\_UW`g\_]`g]ghYa `fZuU&ZL`E; cj cf`g`dc`\ ]fcb]`E`?cX  
5 BG=7 `nUdc\ ]fcb]`[ cj cfb]`\_cXY\_`g]ghYa U; GA `f] GA `\$\* `\$\* žfUn` ]WJ) `%%&

Digital cellular telecommunications system (Phase 2+) (GSM); Half rate speech; ANSI-C code for the GSM half rate speech codec (GSM 06.06 version 5.1.1)

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**ICS:**

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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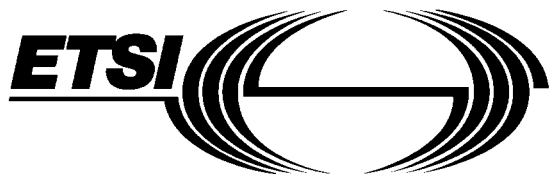
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**Digital cellular telecommunications system (Phase 2+);**

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**Half rate speech;**

**ANSI-C code for the GSM half rate speech codec**

**(GSM 06.06 version 5.1.1)**

**ETSI**

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## Foreword

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

A 3,5 inch diskette is attached to the back cover of this ETS, this diskette contains clause 5, the bit-exact ANSI-C code for the GSM half rate codec.

This ETS specifies the half rate speech traffic channels for the digital cellular telecommunications system. This ETS is part of ETSs series covering the half rate speech traffic channels as described below:

GSM 06.02                    ETS 300 966: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Half rate speech processing functions".

**GSM 06.06                    ETS 300 967: "Digital cellular telecommunications system (Phase 2+); Half rate speech; ANSI-C code for the GSM half rate speech codec".**

GSM 06.07                    ETS 300 968: "Digital cellular telecommunications system; Half rate speech (Phase 2+); Test sequences for the GSM half rate speech codec".

GSM 06.20                    ETS 300 969: "Digital cellular telecommunications system; Half rate speech (Phase 2+); Half rate speech transcoding".

GSM 06.21                    ETS 300 970: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels".

GSM 06.22                    ETS 300 971: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Comfort noise aspects for half rate speech traffic channels".

GSM 06.41                    ETS 300 972: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Discontinuous Transmission (DTX) for half rate speech traffic channels".

GSM 06.42                    ETS 300 973: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels".

### Transposition dates

Date of adoption of this ETS:	3 April 1998
Date of latest announcement of this ETS (doa):	30 June 1998
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 December 1998
Date of withdrawal of any conflicting National Standard (dow):	31 December 1998

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## 1 Scope

This European Telecommunication Standard (ETS) contains an electronic copy of the ANSI-C code for the GSM half rate codec. The ANSI-C code is necessary for a bit exact implementation of the half rate speech transcoder (GSM 06.20 (ETS 300 969) [2]), Voice Activity Detector (GSM 06.42 (ETS 300 973) [6]), comfort noise (GSM 06.22 (ETS 300 971) [4]), Discontinuous Transmission (GSM 06.41 (ETS 300 972) [5]) and example solutions for substituting and muting of lost frames (GSM 06.21 (ETS 300 970) [3]).

## 2 Normative references

This ETS incorporates by dated and 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 01.04 (ETR 350): "Digital cellular telecommunication system (Phase 2+); Abbreviations and acronyms".
- [2] GSM 06.20 (ETS 300 969): "Digital cellular telecommunications system (Phase 2+); Half rate speech; Half rate speech transcoding".
- [3] GSM 06.21 (ETS 300 970): "Digital cellular telecommunications system (Phase 2+); Half rate speech; Substitution and muting of lost frame for half rate speech traffic channels".
- [4] GSM 06.22 (ETS 300 971): "Digital cellular telecommunications system (Phase 2+); Half rate speech; Comfort noise aspects for half rate speech traffic channels".
- [5] GSM 06.41 (ETS 300 972): "Digital cellular telecommunications system (Phase 2+); Half rate speech; Discontinuous Transmission (DTX) for half rate speech traffic channels".
- [6] GSM 06.42 (ETS 300 973): "Digital cellular telecommunications system (Phase 2+); Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels".
- [7] GSM 06.07 (ETS 300 968): "Digital cellular telecommunications system (Phase 2+); Half rate speech; Test sequences for the GSM half rate speech codec".
- [8] American National Standards Institute ANSI 9899 (1990): "Programming Language - C (ISO)".

## 3 Definitions and abbreviations

### 3.1 Definitions

Definition of terms used in this ETS can be found in GSM 06.20 (ETS 300 969) [2], GSM 06.21 (ETS 300 970) [3], GSM 06.22 (ETS 300 971) [4], GSM 06.41 (ETS 300 972) [5] and GSM 06.42 (ETS 300 973) [6].