

SLOVENSKI STANDARD

SIST ETS 300 581-8 E1:2003

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**Digitalni celilni telekomunikacijski sistem i Govor s polovi!no hitrostjo i 8. del:
Presku!alna zaporedja za GSM kodek za govor s polovi!no hitrostjo (GSM 06.07)**

Digital cellular telecommunications system; Half rate speech; Part 8: Test sequences for the GSM half rate speech codec (GSM 06.07)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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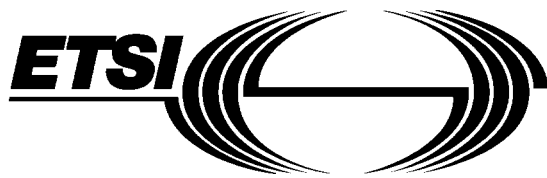
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GSM

GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS

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Digital cellular telecommunications system;

Half rate speech;

**Part 8: Test sequences for the GSM half rate speech codec
(GSM 06.07)**

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Foreword

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

Two 3.5 inch diskettes are attached to the back cover of this ETS, the diskettes contain test sequences for a bit exact implementation of the half rate speech transcoder.

The diskettes contain LHARC compressed files and are labelled as follows:

Diskette 1/2	ETS 300 581-8 clause 9: Test sequences for the GSM half rate speech codec; Disks 2 and 4 (GSM 06.07)
Diskette 2/2	ETS 300 581-8 clause 9: Test sequences for the GSM half rate speech codec; Disks 1, 3 and 5 (GSM 06.07)

The "disk*read.txt" files also contained on the diskettes provide further information on the compressed files.

To decompress the "disk*.exe" files, at DOS prompt:

- type in "disk*.exe" if the default drive is a hard disk (C:\>)
- type in "disk*.exe" C: if the default drive is a floppy disk (A:\>)

This ETS specifies the half rate speech traffic channels for the European digital cellular telecommunications system. This ETS corresponds to GSM technical specification, GSM 06.07, version 4.0.3 and is part 8 of a multi-part ETS covering the half rate speech traffic channels as described below:

GSM 06.02	ETS 300 581-1: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 1: Half rate speech processing functions".
GSM 06.20	ETS 300 581-2: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 2: Half rate speech transcoding".
GSM 06.21	ETS 300 581-3: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 3: Substitution and muting of lost frames for half rate speech traffic channels".
GSM 06.22	ETS 300 581-4: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 4: Comfort noise aspects for half rate speech traffic channels".
GSM 06.41	ETS 300 581-5: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 5: Discontinuous Transmission (DTX) for half rate speech traffic channels".
GSM 06.42	ETS 300 581-6: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 6: Voice Activity Detection (VAD) for half rate speech traffic channels".
GSM 06.06	ETS 300 581-7: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 7: ANSI-C code for the GSM half rate speech codec".
GSM 06.07	ETS 300 581-8: "Digital cellular telecommunications system (Phase 2); Half rate speech Part 8: Test vectors for the GSM half rate speech codec".

NOTE: TC-SMG has produced documents which give the technical specifications for the implementation of the European digital cellular telecommunications system. Historically, these documents have been identified as GSM Technical Specifications (GSM-TS). These TSs may have subsequently become Interim European Telecommunication Standards (I-ETs), (Phase 1), or European Telecommunication Standards (ETs), (Phase 2), whilst others may become ETSI Technical Reports (ETRs).

Transposition dates	
Date of adoption of this ETS:	31 January 1996
Date of latest announcement of this ETS (doa):	30 April 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 October 1996
Date of withdrawal of any conflicting National Standard (dow):	31 October 1996

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1 Scope

This European Telecommunication Standard (ETS) part 8 specifies the digital test sequences for the GSM half rate speech codec. These sequences test for a bit exact implementation of the half rate speech transcoder (GSM 06.20 (ETS 300 581-2) [2]), Voice Activity Detection (GSM 06.42 (ETS 300 581-6) [6]), comfort noise (GSM 06.22 (ETS 300 581-4) [4]) and the discontinuous transmission (GSM 06.41 (ETS 300 581-5) [5]).

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 100): "European digital cellular telecommunication system (Phase 2); Abbreviations and acronyms".
- [2] GSM 06.20 (ETS 300 581-2): "Digital cellular telecommunications system; Half rate speech Part 2: Half rate speech transcoding".
- [3] GSM 06.21 (ETS 300 581-3): "Digital cellular telecommunications system; Half rate speech Part 3: Substitution and muting of lost frame for half rate speech traffic channels".
- [4] GSM 06.22 (ETS 300 581-4): "Digital cellular telecommunications system; Half rate speech Part 4: Comfort noise aspects for half rate speech traffic channels".
- [5] GSM 06.41 (ETS 300 581-5): "Digital cellular telecommunications system; Half rate speech Part 5: Discontinuous transmission (DTX) for half rate speech traffic channels".
- [6] GSM 06.42 (ETS 300 581-6): "Digital cellular telecommunications system; Half rate speech Part 6: Voice Activity Detector (VAD) for half rate speech traffic channels".
- [7] GSM 06.06 (ETS 300 581-7): "Digital cellular telecommunications system; Half rate speech Part 7: ANSI-C code for the GSM half rate speech codec".
- [8] GSM 06.02 (ETS 300 581-1): "Digital cellular telecommunications system; Half rate speech Part 1: Half rate speech coding functions".

3 Definitions and abbreviations

3.1 Definitions

Definition of terms used in this ETS can be found in GSM 06.20 (ETS 300 581-2) [2], GSM 06.21 (ETS 300 581-3) [3], GSM 06.22 (ETS 300 581-4) [4], GSM 06.41 (ETS 300 581-5) [5] and GSM 06.42 (ETS 300 581-6) [6].

3.2 Abbreviations

For the purpose of this ETS, the following abbreviations apply.

ETS	European Telecommunication Standard
GSM	Global System for Mobile communications

For abbreviations not given in this subclause, see GSM 01.04 (ETR 100) [1].