

SLOVENSKI STANDARD

SIST ETS 300 581-8 E2:2003

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8][JhUb]`WY] b]`hYY_ca i b]_UWg]`g]ghYa `fUhU&E; cj cf`g`dc`cj] bc \]fcgħt ē², "XY. Df Yg_i yUbU nUdcf YX U nU; GA _cXY_nU[cj cf`g`dc`cj] bc \]fcgħt fli GA \$* \$"+`fUh`] WU("&%L

Digital cellular telecommunications system (Phase 2) (GSM); Half rate speech; Part 8:
Test sequences for the GSM half rate speech codec (GSM 06.07 version 4.2.1)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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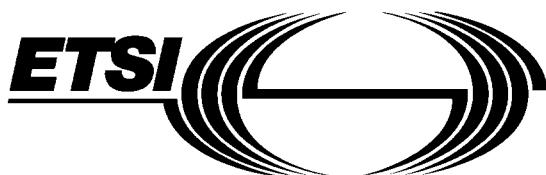
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Part 8: Test sequences for the GSM half rate speech codec

(GSM 06.07 version 4.2.1)

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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).

Five 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 compressed files and are labelled as follows:

- | | |
|--------------|---|
| Diskette 1/5 | ETS 300 581-8 clause 10: Test sequences for the GSM half rate speech codec; Disks 2 and 4 (GSM 06.07). |
| Diskette 2/5 | ETS 300 581-8 clause 10: Test sequences for the GSM half rate speech codec; Disks 1, 3 and 5 (GSM 06.07). |
| Diskette 3/5 | ETS 300 581-8 clause 10: Test sequences for the GSM half rate speech codec; Disks 6 and 10 (GSM 06.07). |
| Diskette 4/5 | ETS 300 581-8 clause 10: Test sequences for the GSM half rate speech codec; Disks 7 and 11 (GSM 06.07). |
| Diskette 5/5 | ETS 300 581-8 clause 10: Test sequences for the GSM half rate speech codec; Disks 8 and 9 (GSM 06.07). |

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

This ETS specifies the half rate speech traffic channels for the European digital cellular telecommunications system 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".
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| 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". |

Transposition dates	
Date of adoption of this ETS:	3 April 1998
Date of latest announcement of this ETS (doa):	31 July 1998
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 January 1999
Date of withdrawal of any conflicting National Standard (dow):	31 January 1999

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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): "Digital cellular telecommunication system (Phase 2); Abbreviations and acronyms".
- [2] GSM 06.20 (ETS 300 581-2): "Digital cellular telecommunications system (Phase 2); Half rate speech Part 2: Half rate speech transcoding".
- [3] GSM 06.21 (ETS 300 581-3): "Digital cellular telecommunications system (Phase 2); 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 (Phase 2); 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 (Phase 2); 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 (Phase 2); 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 (Phase 2); Half rate speech Part 7: ANSI-C code for the GSM half rate speech codec".
<https://standards.ieee.org/standard/sist-ets-300-581-8-e2-2003-a1afeebdbf87.html>
- [8] GSM 06.02 (ETS 300 581-1): "Digital cellular telecommunications system (Phase 2); Half rate speech Part 1: Half rate speech coding functions".

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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 purposes 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].

4 General

Digital test sequences are necessary to 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]).

The test sequences may also be used to verify installations of the ANSI C code in GSM 06.06 (ETS 300 581-7) [7].

Clause 5 describes the format of the files which contain the digital test sequences. Clause 6 describes the test sequences for the speech transcoder. Clause 7 describes the test sequences for the VAD, comfort noise and discontinuous transmission.