



**SLOVENSKI STANDARD**  
**SIST ETS 300 968 E2:2003**

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fU`h] ]WU) "&`%&

Digital cellular telecommunications system (Phase 2+) (GSM); Half rate speech; Test sequences for the GSM half rate speech codec (GSM 06.07 version 5.2.1)

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**ICS:**

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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April 1998

Second Edition

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ICS: 33.020

**Key words:** CODEC, digital cellular telecommunications system, Global System for Mobile communications (GSM), speech, test sequence



**Digital cellular telecommunications system (Phase 2+);**

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**Half rate speech;**

**Test sequences for the GSM half rate speech codec**

**(GSM 06.07 version 5.2.1)**

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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 300 968 clause 10: Test sequences for the GSM half rate speech codec; Disks 2 and 4 (GSM 06.07).
Diskette 2/5	ETS 300 968 clause 10: Test sequences for the GSM half rate speech codec; Disks 1, 3 and 5 (GSM 06.07).
Diskette 3/5	ETS 300 968 clause 10: Test sequences for the GSM half rate speech codec; Disks 6 and 10 (GSM 06.07).
Diskette 4/5	ETS 300 968 clause 10: Test sequences for the GSM half rate speech codec; Disks 7 and 11 (GSM 06.07).
Diskette 5/5	ETS 300 968 clause 10: Test sequences for the GSM half rate speech codec; Disks 8 and 9 (GSM 06.07).

This ETS specifies the half rate speech traffic channels for the Digital cellular telecommunications system.

This ETS specifies the digital test sequences for the GSM half rate speech codec for the digital cellular telecommunications system. This ETS, is part of an ETSs series covering the half rate speech traffic channels as described below: [\(standards.iteh.ai\)](https://standards.iteh.ai/)

GSM 06.02	ETS 300 966: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Half rate speech processing functions". <a href="https://standards.iteh.ai/catalog/standards/sist/62316d3f-3749-4906-93b9-576d3861df0c/sist-ets-300-968-e2-2003">https://standards.iteh.ai/catalog/standards/sist/62316d3f-3749-4906-93b9-576d3861df0c/sist-ets-300-968-e2-2003</a>
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".
<b>GSM 06.07</b>	<b>ETS 300 968: "Digital cellular telecommunications system (Phase 2+); Half rate speech; Test sequences for the GSM half rate speech codec".</b>
GSM 06.20	ETS 300 969: "Digital cellular telecommunications system (Phase 2+); Half rate speech; 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) 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 300 969) [2]), Voice Activity Detector (GSM 06.42 (ETS 300 973) [6]), comfort noise (GSM 06.22 (ETS 300 971) [4]) and the discontinuous transmission (GSM 06.41 (ETS 300 972) [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 350): "Digital cellular telecommunications 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 06.06 (ETS 300 967): "Digital cellular telecommunications system (Phase 2+); Half rate speech; ANSI-C code for the GSM half rate speech codec".
- [8] GSM 06.02 (ETS 300 966): "Digital cellular telecommunications system (Phase 2+); Half rate speech; 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 300 969) [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].

### 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 350) [1].