



**SLOVENSKI STANDARD**  
**SIST ETS 300 580-1 E2:2003**

**01-december-2003**

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8 [[ [HJb]`W] b]`hY`Y\_ca i b]\_UW`g\_]`g]ghYa `fZuU&L`E`; cj cf`g`dc`bc`\ Jhfcght`E`%  
XY.`.: i b\_WY`Y`nUcVXYUj c`f] GA`\$\*`\$%`z`f`U`h`] JWJ(('\$"+L

Digital cellular telecommunications system (Phase 2) (GSM); Full rate speech; Part 1:  
Processing functions (GSM 06.01 version 4.0.7)

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Ta slovenski standard je istoveten z: **ETS 300 580-1 Edition 2**  
SIST ETS 300 580-1 E2:2003  
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**ICS:**

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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**E**UROPEAN  
**T**ELECOMMUNICATION  
**S**TANDARD

**ETS 300 580-1**

March 1998

Second Edition

Source: SMG

Reference: RE/SMG-110601PR1

ICS: 33.020

**Key words:** Digital cellular telecommunications system, Global System for Mobile communications (GSM)



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

<https://standards.iteh.ai/catalog/standards/sist/c8b22e37-4167-4b00-8043-f64d2b527441/sist-300-580-1>  
**Full rate speech;**

**Part 1: Processing functions**

**(GSM 06.01 version 4.0.7)**

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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).

This ETS describes in general terms the speech processing functions within the digital cellular telecommunications system.

The specification from which this ETS has been derived was originally based on CEPT documentation, hence the presentation of this ETS may not be entirely in accordance with the ETSI/PNE Rules.

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 technical specification is an introduction to the 06 series of the GSM technical specifications dealing with the speech processing functions in the GSM system. A general overview of the speech processing parts is given with reference to the technical specifications where each part is specified in detail.

## 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 telecommunications system (Phase 2); Abbreviations and acronyms".
- [2] GSM 03.50 (ETS 300 540): "Digital cellular telecommunications system (Phase 2); Transmission planning aspects of the speech service in the GSM Public Land Mobile Network (PLMN) system".
- [3] GSM 06.10 (ETS 300 580-2): "Digital cellular telecommunications system (Phase 2); Full rate speech transcoding".
- [4] GSM 06.11 (ETS 300 580-3): "Digital cellular telecommunications system (Phase 2); Substitution and muting of lost frames for full rate speech channels".
- [5] GSM 06.12 (ETS 300 580-4): "Digital cellular telecommunications system (Phase 2); Comfort noise aspect for full rate speech traffic channels".
- [6] GSM 06.31 (ETS 300 580-5): "Digital cellular telecommunications system (Phase 2); Discontinuous Transmission (DTX) for full rate speech traffic channel".
- [7] GSM 06.32 (ETS 300 580-6): "Digital cellular telecommunications system (Phase 2); Voice Activity Detector (VAD) for full rate speech traffic channel".
- [8] GSM 06.02 (ETS 300 581-1): "Digital cellular telecommunications system (Phase 2); Half rate speech processing functions".
- [9] GSM 06.20 (ETS 300 581-2): "Digital cellular telecommunications system (Phase 2); Half rate speech transcoding".
- [10] GSM 06.21 (ETS 300 581-3): "Digital cellular telecommunications system (Phase 2); Substitution and muting of lost frames for half rate speech traffic channels".
- [11] GSM 06.22 (ETS 300 581-4): "Digital cellular telecommunications system (Phase 2); Comfort noise aspects for half rate speech traffic channels".
- [12] GSM 06.41 (ETS 300 581-5): "Digital cellular telecommunications system (Phase 2); Discontinuous Transmission (DTX) for half rate speech traffic channels".
- [13] GSM 06.42 (ETS 300 581-6): "Digital cellular telecommunications system (Phase 2); Voice Activity Detection (VAD) for half rate speech traffic channels".

## 3 Abbreviations

Abbreviations used in this specification are listed in GSM 01.04.