



SLOVENSKI STANDARD
SIST ETS 300 581-3 E1:2003
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[c j c fca `g`dc`c j] bc` \]f c g h c` f] GA` \$*`%&`

European digital cellular telecommunications system; Half rate speech; Part 3:
Substitution and muting of lost frames for half rate speech traffic channels (GSM 06.21)

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Ta slovenski standard je istoveten z: **ETS 300 581-3 Edition 1**

ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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Part 3: Substitution and muting of lost frames for half rate
speech traffic channels
(GSM 06.21)

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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).

This ETS specifies the half rate speech traffic channels for the European digital cellular telecommunications system. This ETS corresponds to GSM technical specification, GSM 06.21, version 4.0.2 and is part 3 of a multi-part ETS covering the half rate speech traffic channels as described below:

GSM 06.02	ETS 300 581-1: "European digital cellular telecommunications system; Half rate speech Part 1: Half rate speech processing functions".
GSM 06.20	ETS 300 581-2: "European digital cellular telecommunications system; Half rate speech Part 2: Half rate speech transcoding".
GSM 06.21	ETS 300 581-3: "European digital cellular telecommunications system; Half rate speech Part 3: Substitution and muting of lost frames for half rate speech traffic channels".
GSM 06.22	ETS 300 581-4: "European digital cellular telecommunications system; Half rate speech Part 4: Comfort noise aspects for half rate speech traffic channels".
GSM 06.41	ETS 300 581-5: "European digital cellular telecommunications system; Half rate speech Part 5: Discontinuous Transmission (DTX) for half rate speech traffic channels".
GSM 06.42	ETS 300 581-6: "European digital cellular telecommunications system; Half rate speech Part 6: Voice Activity Detection (VAD) for half rate speech traffic channels".
GSM 06.06	ETS 300 581-7: "European digital cellular telecommunications system; Half rate speech Part 7: ANSI-C code for the GSM half rate speech codec".
GSM 06.07	ETS 300 581-8: "European digital cellular telecommunications system; 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-ETSS), (Phase 1), or European Telecommunication Standards (ETSS), (Phase 2), whilst others may become ETSI Technical Reports (ETRs).

Transposition dates	
Date of adoption of this ETS:	27 October 1995
Date of latest announcement of this ETS (doa):	28 February 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 August 1996
Date of withdrawal of any conflicting National Standard (dow):	31 August 1996

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1 Scope

This European Telecommunication Standard (ETS) defines a frame substitution and muting procedure which shall be used by the Receive (RX) Discontinuous Transmission (DTX) handler when one or more lost or unreliable speech or Silence Descriptor (SID) frames are received from the Radio Sub System (RSS).

The requirements of this ETS are mandatory for implementation in all GSM Base Station Systems (BSS)s and Mobile Stations (MS)s capable of supporting the half rate speech traffic channel.

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 05.03 (ETS 300 575): "European digital cellular telecommunications system (Phase 2); Channel coding".
- [3] GSM 06.20 (ETS 300 581-2): "European digital cellular telecommunications system; Half rate speech Part 2: Half rate speech transcoding".
- [4] GSM 06.41 (ETS 300 581-5): "European digital cellular telecommunications system; Half rate speech Part 5: Discontinuous transmission (DTX) for half rate speech traffic channels".
- [5] GSM 06.06 (ETS 300 581-7): "European digital cellular telecommunications system (Phase 2); Half rate speech Part 7: ANSI-C code for the GSM half rate speech codec".

3 Definitions and abbreviations

3.1 Definitions

The definitions of terms used in this ETS can be found in GSM 06.20 (ETS 300 581-2) [3], GSM 06.41 (ETS 300 581-5) [4], GSM 05.03 (ETS 300 575) [2].

3.2 Abbreviations

For the purposes of this ETS the following abbreviations apply.

BFI	Bad Frame Indication
BSS	Base Station System
DTX	Discontinuous Transmission
ETS	European Telecommunication Standard
GSM	Global System for Mobile communications
LPC	Linear Predictive Coding
MS	Mobile Station
RX	Receive
RSS	Radio Sub System
SID	Silence Descriptor
UFI	Unreliable Frame Indication

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