



SLOVENSKI STANDARD SIST ETS 300 972 E1:2003

01-december-2003

Digitalni celij ni telekomunikacijski sistem i Govor s pol hitrosti i Prekinjano oddajanje (DTX) pri kanalih za prenos govora s pol hitrosti (GSM 06.41, razlii ica 5.0.1)

Digital cellular telecommunications system; Half rate speech; Discontinuous transmission (DTX) for half rate speech traffic channels (GSM 06.41 version 5.0.1)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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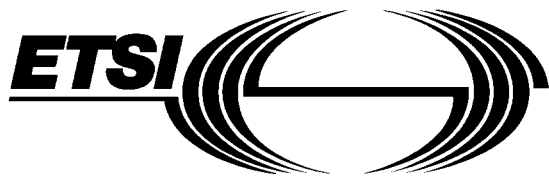
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**Digital cellular telecommunications system;
Half rate speech;**

**Discontinuous Transmission (DTX) for half rate
speech traffic channels
(GSM 06.41 version 5.0.1)**

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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 describes the general baseband operation of half rate speech traffic channels in the transmitter and in the receiver of GSM Mobile Stations (MS)s and Base Station Systems (BSS)s during Discontinuous Transmission (DTX) within the digital cellular telecommunications system. This ETS is part of ETSs series covering the half rate speech traffic channels as described below:

GSM 06.02	ETS 300 966: "Digital cellular telecommunications system; Half rate speech; Half rate speech processing functions".
GSM 06.06	ETS 300 967: "Digital cellular telecommunications system; Half rate speech; ANSI-C code for the GSM half rate speech codec".
GSM 06.07	ETS 300 968: "Digital cellular telecommunications system; Half rate speech; Test sequences for the GSM half rate speech codec".
GSM 06.20	ETS 300 969: "Digital cellular telecommunications system; Half rate speech; Half rate speech transcoding".
GSM 06.21	ETS 300 970: "Digital cellular telecommunications system; 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; Half rate speech; Comfort noise aspects for half rate speech traffic channels".
GSM 06.41	ETS 300 972: "Digital cellular telecommunications system; Half rate speech; Discontinuous Transmission (DTX) for half rate speech traffic channels".
GSM 06.42	ETS 300 973: "Digital cellular telecommunications system; Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels".

Transposition dates	
Date of adoption:	4 April 1997
Date of latest announcement of this ETS (doa):	31 August 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	28 February 1998
Date of withdrawal of any conflicting National Standard (dow):	28 February 1998

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1 Scope

This European Telecommunication Standard (ETS) gives a description of the general baseband operation of half rate speech traffic channels in the transmitter and in the receiver of GSM Mobile Stations (MS)s and Base Station Systems (BSS)s during Discontinuous Transmission (DTX).

For clarity, the description is structured according to the block diagrams in figures 1 and 4. Except in the case described below, this structure of distributing the various functions between system entities is not mandatory for implementation, as long as the operation on the air interface and on the speech decoder output remains the same.

In the case of BSSs where the speech transcoder is located remotely in the Base Station Controller (BSC), the implementation of the interfaces between the DTX Handlers and the Radio Sub System (RSS) as described in this ETS together with all their flags is mandatory, being a part of the A-bis interface as described in GSM 08.61 (ETS 300 979) [10].

The DTX functions described in this ETS are mandatory for implementation in all GSM MSs. The receiver requirements are mandatory for implementation in all GSM BSSs, the transmitter requirements only for those where downlink DTX will be used.

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 04.08 (ETS 300 940): "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
- [3] GSM 05.05 (ETS 300 910): "Digital cellular telecommunications system (Phase 2+); Radio transmission and reception".
- [4] GSM 05.08 (ETS 300 911): "Digital cellular telecommunications system (Phase 2+); Radio subsystem link control".
- [5] GSM 06.02 (ETS 300 966): "Digital cellular telecommunications system; Half rate speech; Half rate speech processing functions".
- [6] GSM 06.20 (ETS 300 969): "Digital cellular telecommunications system; Half rate speech; Half rate speech transcoding".
- [7] GSM 06.21 (ETS 300 970): "Digital cellular telecommunications system; Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels".
- [8] GSM 06.22 (ETS 300 971): "Digital cellular telecommunications system; Half rate speech; Comfort noise aspects for half rate speech traffic channels".
- [9] GSM 06.42 (ETS 300 973): "Digital cellular telecommunications system; Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels".
- [10] GSM 08.61 (ETS 300 979): "Digital cellular telecommunications system; In-band control of remote transcoders and rate adaptors for half rate traffic channels".