

SLOVENSKI STANDARD SIST ETS 300 729 E2:2003

01-december-2003

8][]HUb] WY] b] 'HYY_ca i b]_UW]/g_] 'g]ghYa 'Ë'BYnj Ynbc'cXXU'Ub'Y'fBHLŁ'j dfca Yhb]\ '_UbU']\ ']nVc' 'ýUbY[U[cj cfUg'dc'bc'\]Hfcgh'c'f9: FŁ'fl, GA '\$* ", %̄z fUn']]WU) "&"%̄z]nXU'U% - * 'Ł

Digital cellular telecommunications system; Discontinuous Transmission (DTX) for Enhanced Full Rate (EFR) speech traffic channels (GSM 06.81 version 5.2.1 Release 1996)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 729 E2:2003

https://standards.iteh.ai/catalog/standards/sist/dd50b2ec-d926-4d83-8864-a68af48cd9d8/sist-ets-300-729-e2-2003

Ta slovenski standard je istoveten z: ETS 300 729 Edition 2

ICS:

33.070.50 Globalni sistem za mobilno Global System for Mobile

telekomunikacijo (GSM) Communication (GSM)

SIST ETS 300 729 E2:2003 en

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 729 E2:2003

https://standards.iteh.ai/catalog/standards/sist/dd50b2ec-d926-4d83-8864-a68af48cd9d8/sist-ets-300-729-e2-2003



EUROPEAN TELECOMMUNICATION STANDARD

ETS 300 729

April 2000

Second Edition

Source: SMG Reference: RE/SMG-020681R1

ICS: 33.020

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



Digital cellular telecommunications system;

Discontinuous Transmission (DTX) for Enhanced

Full Rate (EFR) speech traffic channels (GSM 06.81 version 5.2.1 Release 1996)

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

Internet: secretariat@etsi.fr - http://www.etsi.org

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

Page 2

ETS 300 729 (GSM 06.81 version 5.2.1): April 2000

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ETS 300 729 E2:2003</u> https://standards.iteh.ai/catalog/standards/sist/dd50b2ec-d926-4d83-8864-a68af48cd9d8/sist-ets-300-729-e2-2003

Page 3 ETS 300 729 (GSM 06.81 version 5.2.1): April 2000

Contents

Intel	lectual Pro	perty Rights	S	5		
Fore	word			ı		
1 010	word					
1	Scope	9				
2	Normative references					
_	Nomiau	ve reference				
3	Definition	Definitions, symbols and abbreviations				
	3.1					
	3.2					
	3.3	Abbreviati	ons			
	0					
4	General 4.1	٥				
	4.1	General of	rganization			
5	Transm	Transmit (TX) side				
	5.1	General o	General operation			
		5.1.1	Functions of the TX DTX handler	10		
		5.1.2	Functions of the TX Radio Subsystem	12		
_	_		I COLANDADO DO ENTREMA			
6	Receive (RX) sideeh. S.T.A.N.D.A.R.D. P.R.E.V.IE.W.					
	6.1	General of	peration			
		6.1.2	Functions of the RX radio subsystemFunctions of the RX DTX handler	۱۰۱۰ / 1		
		_				
Anne	ex A (infor	mative): (Change Request History dards.reh.a/catalog/standards/sist/dd50b2ec-d926-4d83-8864-	15		
	(https://stand				
Histo	orv		a68af48cd9d8/sist-ets-300-729-e2-2003	16		

Page 4

ETS 300 729 (GSM 06.81 version 5.2.1): April 2000

Blank page

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 729 E2:2003

https://standards.iteh.ai/catalog/standards/sist/dd50b2ec-d926-4d83-8864-a68af48cd9d8/sist-ets-300-729-e2-2003

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://www.etsi.org/ipr).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG).

This ETS describes the general baseband operation of Enhanced Full Rate speech traffic channels in the transmitter and in the receiver of GSM Mobile Stations and Base Station Systems during Discontinuous Transmission (DTX) within the digital cellular telecommunications system.

The contents of the present document is subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of the present document it will be re-released with an identifying change of release date and an increase in version number as follows:

Version 5.x.y

iTeh STANDARD PREVIEW

where:

- 5 GSM Phase 2+ Release 1996 ards.iteh.ai)
- x the second digit is incremented for changes of substance, i.e. technical enhancements, corrections, updates, etc., https://standards.iten.avcatalog/standards/sist/dd50b2ec-d926-4d83-8864-
- y the third digit is incremented when editorial only changes have been incorporated in the specification.

Proposed transposition dates				
Date of adoption of this EN:	31 March 2000			
Date of latest announcement of this ETS (doa):	30 June 2000			
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 December 2000			
Date of withdrawal of any conflicting National Standard (dow):	31 December 2000			

Page 6

ETS 300 729 (GSM 06.81 version 5.2.1): April 2000

Blank page

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 729 E2:2003

https://standards.iteh.ai/catalog/standards/sist/dd50b2ec-d926-4d83-8864-a68af48cd9d8/sist-ets-300-729-e2-2003

1 Scope

This European Telecommunication Standard (ETS) gives a description of the general baseband operation of Enhanced Full 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 next, 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 part of the A-bis interface as described in GSM 08.60 (ETS 300 737) [13].

The DTX functions described in this technical specification are mandatory for implementation in the 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.

Tob STANDADD DDEVIEW				
[1]	GSM 01.04 (ETR 100): "Digital cellular telecommunications system (Phase 2); Abbreviations and acronyms" en all			
[2] https://st	GSM 04.08 (ETS 300-557); "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 specification". andards.iteh.a/catalog/standards/sist/dd50b2ec-d920-4d83-8864-			
[3]	GSM 05.03 (ETS 300 575). Digital cellular telecommunications system (Phase 2); Channel coding".			
[4]	GSM 05.05 (ETS 300 577): "Digital cellular telecommunications system (Phase 2); Radio transmission and reception".			
[5]	GSM 05.08 (ETS 300 578): "Digital cellular telecommunications system (Phase 2); Radio subsystem link control".			
[6]	GSM 06.51 (ETS 300 723): "Digital cellular telecommunications system; Enhanced Full Rate (EFR) speech processing functions; General description".			
[7]	GSM 06.53 (ETS 300 724): "Digital cellular telecommunications system; ANSI-C code for the GSM Enhanced Full Rate (EFR) speech codec".			
[8]	GSM 06.54 (ETS 300 725): "Digital cellular telecommunications system (Phase 2); Test vectors for the GSM Enhanced Full Rate (EFR) speech codec".			
[9]	GSM 06.60 (ETS 300 726): "Digital cellular telecommunications system; Enhanced Full Rate (EFR) speech transcoding".			
[10]	GSM 06.61 (ETS 300 727): "Digital cellular telecommunications system; Substitution and muting of lost frame for Enhanced Full Rate (EFR) speech traffic channels".			
[11]	GSM 06.62 (ETS 300 728): "Digital cellular telecommunications system; Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels".			