



# SLOVENSKI STANDARD

## SIST ETS 300 723 E2:2003

01-december-2003

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Digital cellular telecommunications system; Enhanced Full Rate (EFR) speech processing functions; General description (GSM 06.51 version 5.2.1)

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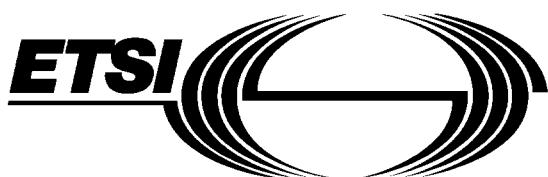
33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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# EUROPEAN TELECOMMUNICATION STANDARD

**ETS 300 723**

December 2000

Second Edition

Source: ETSI TC-SMG

Reference: RE/SMG-110651

ICS: 33.020

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



**Digital cellular telecommunications system;  
Enhanced Full Rate (EFR) speech processing functions;  
General description  
(GSM 06.51 version 5.2.1)**

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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).

The present document introduces the Enhanced Full Rate (EFR) speech traffic channels within the digital cellular telecommunications system.

The present document corresponds to GSM technical specification, GSM 06.51, version 5.1.2.

Transposition dates	
Date of adoption of this ETS:	1 December 2000
Date of latest announcement of this ETS (doa):	31 March 2001
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 September 2001
Date of withdrawal of any conflicting National Standard (dow):	30 September 2001

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## 1 Scope

This European Telecommunication Standard (ETS) is an introduction to GSM 06.60 (ETS 300 726) [6], GSM 06.61 (ETS 300 727) [7], GSM 06.62 (ETS 300 728) [8], GSM 06.81 (ETS 300 729) [9] and GSM 06.82 (ETS 300 730) [10] ETSs dealing with the speech processing functions in the Enhanced Full Rate channel of the GSM system. A general overview of the speech processing functions is given, with reference to the ETSs where each function is specified in detail.

## 2 Normative references

The present document 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 the present document 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 05.03 (ETS 300 575): "Digital cellular telecommunications system (Phase 2); Channel coding".
- [4] GSM 06.53 (ETS 300 724): "Digital cellular telecommunications system; ANSI-C code for the GSM Enhanced Full Rate (EFR) speech codec".
- [5] GSM 06.54 (ETS 300 725): "Digital cellular telecommunications system; Test vectors for the GSM Enhanced Full Rate (EFR) speech codec".
- [6] GSM 06.60 (ETS 300 726): "Digital cellular telecommunications system; Enhanced Full Rate (EFR) speech transcoding".  
*SIST ETS 300 723 E2:2003  
https://standards.ieee.org/standards/sis/68d919-10c9-4cc9-aa38-67684520c50/sist-ets-300-723-e2-2003*
- [7] GSM 06.61 (ETS 300 727): "Digital cellular telecommunications system; Substitution and muting of lost frame for Enhanced Full Rate (EFR) speech traffic channels".
- [8] GSM 06.62 (ETS 300 728): "Digital cellular telecommunications system; Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels".
- [9] GSM 06.81 (ETS 300 729): "Digital cellular telecommunications system; Discontinuous transmission (DTX) for Enhanced Full Rate (EFR) speech traffic channels".
- [10] GSM 06.82 (ETS 300 730): "Digital cellular telecommunications system; Voice Activity Detector (VAD) for Enhanced Full Rate (EFR) speech traffic channels".

## 3 Definitions and abbreviations

### 3.1 Definitions

Definition of terms used in the present document can be found in GSM 06.60 (ETS 300 726) [6], GSM 06.61 (ETS 300 727) [7], GSM 06.62 (ETS 300 728) [8], GSM 06.81 (ETS 300 729) [9] and GSM 06.82 (ETS 300 730) [10].