



# SLOVENSKI STANDARD SIST ETS 300 801 E1:2003

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**Digitalna videoradiodifuzija (DVB) – Povratni kanal skozi javno komutirano telefonsko omrežje (PSTN)/digitalno omrežje z integriranimi storitvami (ISDN)**

Digital Video Broadcasting (DVB); Interaction channel through Public Switched Telecommunications Network (PSTN)/ Integrated Services Digital Networks (ISDN)

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**ICS:**

|           |   |  |
|-----------|---|--|
| 33.040.35 | Telefonska omrežja                                  | Telephone networks                         |
| 33.080    | Digitalno omrežje z integriranimi storitvami (ISDN) | Integrated Services Digital Network (ISDN) |
| 33.170    | Televizijska in radijska difuzija                   | Television and radio broadcasting          |

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**DVB**  
Digital Video  
Broadcasting

**Digital Video Broadcasting (DVB):**  
Interaction channel through

**Public Switched Telecommunications Network (PSTN) /**  
**Integrated Services Digital Networks (ISDN)**

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Joint Technical Committee (JTC) of the European Broadcasting Union (EBU), Comité Européen de Normalisation ELECtrotechnique (CENELEC) and the European Telecommunications Standards Institute (ETSI).

NOTE: The EBU/ETSI JTC was established in 1990 to co-ordinate the drafting of standards in the specific field of broadcasting and related fields. Since 1995 the JTC became a tripartite body by including in the Memorandum of Understanding also CENELEC, which is responsible for the standardization of radio and television receivers. The EBU is a professional association of broadcasting organizations whose work includes the co-ordination of its members' activities in the technical, legal, programme-making and programme-exchange domains. The EBU has active members in about 60 countries in the European broadcasting area; its headquarters is in Geneva \*.

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## Digital Video Broadcasting (DVB) Project

Founded in September 1993, the DVB Project is a market-led consortium of public and private sector organizations in the television industry. Its aim is to establish the framework for the introduction of MPEG-2 based digital television services. Now comprising over 200 organizations from more than 25 countries around the world, DVB fosters market-led systems, which meet the real needs, and economic circumstances, of the consumer electronics and the broadcast industry.

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| Date of latest publication of new National Standard or endorsement of this ETS (dop/e): | 31 May 1998      |
| Date of withdrawal of any conflicting National Standard (dow):                          | 31 May 1998      |

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## 1 Scope

This European Telecommunication Standard (ETS) is the baseline specification for the provision of Return Channel (RC) based on PSTN and ISDN to Digital Video Broadcasting (DVB) systems.

It is not intended to specify a RC solution associated to each broadcast system because the inter-operability of different delivery media to transport the RC is desirable. Therefore the PSTN/ISDN solutions for the RC apply to satellite, cable, SMATV, terrestrial, MMDS or any future DVB system.

The solutions here provided for RC through PSTN/ISDN are a part of a wider set of alternatives to implement interactive services for DVB systems.

## 2 Normative references

For the purposes of this ETS, the following references apply:

- [1] ETS 300 001: "Attachments to the Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN".
- [2] ETS 300 011: "Integrated Services Digital Network (ISDN): Primary rate user-network interface Layer 1 specification and test principles".
- [3] ETS 300 012: "Integrated Services Digital Network (ISDN): Basic rate user-network interface Layer 1 specification and test principles".
- [4] ETS 300 402 (1994): "ISDN user-network interface - Data link layer specification". ITU-T Recommendation Q.921 Rev. 1.
- [5] ETS 300 403 (1994): "Digital subscriber Signalling System No. 1 (DSS 1) - ISDN user-network interface layer 3 specification for basic call control". ITU-T Recommendation Q.931 Rev. 1.
- [6] ITU-T Recommendations V.21, V.22, V.22bis, V.23, V.25, V.32, V.32bis, V.34 and V.42.
- [7] Official Journal of the European Communities, No. L 128, 23 May 1991: "Council Directive on the approximation of the laws of the Member States concerning telecommunications terminal equipment, including the mutual recognition of their conformity (91/263/EEC)".
- [8] EN 50201: "Interface for DVB-IRD".
- [9] ETS 300 802: "Digital Video Broadcasting (DVB); Network independent protocols for interactive services".

## 3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

|       |   |
|-------|---|
| BC    | Broadcast Channel                         |
| BIM   | Broadcast Interface Module                |
| BRA   | Basic Rate Access                         |
| DAVIC | Digital Audio Visual Council              |
| DCE   | Data Communication Equipment              |
| DTE   | Data Termination Equipment                |
| DTMF  | Dual-Tone Multi-Frequency (dialling mode) |
| DVB   | Digital Video Broadcasting                |
| GSTN  | General Switched Telephone Network        |
| IC    | Interaction Channel                       |
| IIM   | Interactive Interface Module              |
| IRD   | Integrated Receiver Decoder               |