# SLOVENSKI STANDARD
## SIST ETS 300 472 E2:2005

### 01-november-2005

**Digitalna videoradiodifuzija (DVB) – Specifikacija za prenos teleteksta po standardu ITU-R sistem B v bitnih tokih digitalne videoradiodifuzije**

Digital Video Broadcasting (DVB); Specification for conveying ITU-R System B Teletext in DVB bitstreams

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**Ta slovenski standard je istoveten z:** **ETS 300 472 Edition 2**

<u>ICS:</u>

| | | |
|---|---|---|
| 33.170 | Televizijska in radijska difuzija | Television and radio broadcasting |

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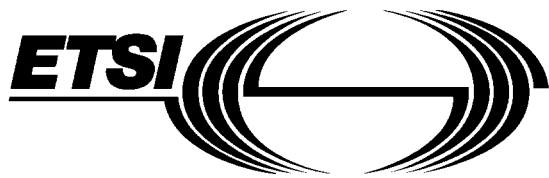
# ETSI

**E**UROPEAN
**T**ELECOMMUNICATION
**S**TANDARD

## ETS 300 472

**October 1996**

**Second Edition**

Source: EBU/CENELEC/ETSI JTC

Reference: RE/JTC-00DVB-19

ICS: 33.020

**Key words:** DVB, digital, video, broadcasting, TV, Teletext, MPEG

European Broadcasting Union

Union Européenne de Radio-Télévision

## Digital Video Broadcasting (DVB);
## Specification for conveying ITU-R System B Teletext
## in DVB bitstreams

# ETSI

European Telecommunications Standards Institute

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## Foreword

This second edition 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 ETSs 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.

**Transposition dates**

| | |
|---|---|
| Date of adoption of this ETS: | 18 October 1996 |
| Date of latest announcement of this ETS (doa): | 31 January 1997 |
| Date of latest publication of new National Standard or endorsement of this ETS (dop/e): | 31 July 1997 |
| Date of withdrawal of any conflicting National Standard (dow): | 31 July 1997 |

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# 1 Scope

This second edition European Telecommunication Standard (ETS) specifies the method by which ITU-R System B Teletext [3], also known as EBU Teletext [4], may be carried in DVB bitstreams. This transport mechanism is intended to satisfy the following requirements:

- to support the transcoding of the Teletext data into the Vertical Blanking Interval (VBI) of analogue video. The transcoded signal should be compatible with existing TV receivers with Teletext decoders;

- the maximum data rate for each Teletext service is equivalent to 16 lines per field so that the service is always suitable for transcoding into the VBI;

- the transmission mechanism should be capable of transmitting subtitles with accurate timing with respect to the video (i.e. to within or near frame accuracy).

A more general data transport mechanism for conveying new types of data services is outside the scope of this ETS, but the transport syntax specified here can also be adapted for other data.

# 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]       ISO/IEC 13818-1 (1994): "Information Technology - Generic Coding of Moving Pictures and Associated Audio Recommendation H.222.0 (systems)".

[2]       ETS 300 468: "Digital broadcasting systems for television, sound and data services; Specification for Service Information (SI) in Digital Video Broadcasting (DVB) systems".

[3]       ITU-R Recommendation 653: "System B, 625/50 television systems".

[4]       EBU SPB 492 (1992): "Teletext specification (625-line television systems)".

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of this ETS, the following definitions apply.

**MPEG-2:** Refers to the standard ISO/IEC 13818 [1]. Systems coding is defined in part 1. Video coding is defined in part 2. Audio coding is defined in part 3.

**section:** A section is a syntactic structure used for mapping all service information defined in ETS 300 468 [2] into ISO/IEC 13818 [1] Transport Stream packets.

**service:** A sequence of programmes under the control of a broadcaster which can be broadcast as part of a schedule.

**Teletext descriptor:** See ETS 300 468 [2], it is used in the Program Specific Information (PSI) Program Map Table (PMT) to identify streams which carry EBU data. The descriptor is located in a program map section following the relevant ES_info_length field.