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Sistemi digitalne radiodifuzije za televizijske, zvokovne in podatkovne storitve – Specifikacije za prenos teleteksta po standardu ITU-R sistem B v bitnih tokih digitalne videoradiodifuzije (DVB)

Digital broadcasting systems for television, sound and data services – Specification for conveying ITU-R System B teletext in digital video broadcasting (DVB) bitstreams

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Digital broadcasting systems for television, sound and data services;

Specification for conveying ITU-R System B Teletext in

Digital Video Broadcasting (DVB) bitstreams

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New presentation - see History box

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Foreword

This European Telecommunication Standard (ETS) has been produced under the authority of the Joint Technical Committee (JTC) of the European Broadcasting Union (EBU) and the European Telecommunications Standards Institute (ETSI).

This version of the specification for conveying ITU-R System B Teletext in Digital Video Broadcasting (DVB) systems has been produced from the DVB Steering Board draft TM 1241 Rev.1.

> NOTE: The EBU/ETSI JTC was established in 1990 to co-ordinate the drafting of ETSs in the specific field of radio, television and data broadcasting. The EBU is a professional association of broadcasting organisations 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 50 countries in the European Broadcasting Area; its headquarters is in Geneva *.

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1 Scope

This 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.