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Digitalna videoradiodifuzija (DVB) - Specifikacija za servisne informacije (SI) v sistemih DVB

Digital Video Broadcasting (DVB) - Specification for Service Information (SI) in DVB systems

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Foreword

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

NOTE: The EBU/ETSI JTC Broadcast was established in 1990 to co-ordinate the drafting of standards in the specific field of broadcasting and related fields. Since 1995 the JTC Broadcast 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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The DVB Project is an industry-led consortium of broadcasters, manufacturers, network operators, software developers, regulators and others from around the world committed to designing open, interoperable technical specifications for the global delivery of digital media and broadcast services. DVB specifications cover all aspects of digital television from transmission through interfacing, conditional access and interactivity for digital video, audio and data. The consortium came together in 1993.

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1 Scope

The present document specifies the Service Information (SI) data which forms a part of Digital Video Broadcasting (DVB) bitstreams, in order that the user can be provided with information to assist in selection of services and/or events within the bitstream, and so that the Integrated Receiver Decoder (IRD) can automatically configure itself for the selected service. SI data for automatic configuration is mostly specified within ISO/IEC 13818-1 [1] as Program Specific Information (PSI).

The present document specifies additional data which complements the PSI by providing data to aid automatic tuning of IRDs, and additional information intended for display to the user. The manner of presentation of the information is not specified in the present document, and IRD manufacturers have freedom to choose appropriate presentation methods.

It is expected that Electronic Programme Guide (EPG) will be a feature of Digital TeleVision (TV) transmissions.

The definition of an EPG is outside the scope of the present document (i.e. the SI specification), but the data contained within the SI specified in the present document may be used as the basis for an EPG.

Rules of operation for the implementation of the present document are specified in ETSI TS 101 211 [i.1].

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] [ISO/IEC 13818-1](#): "Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems".
- [2] [ETSI EN 300 743](#): "Digital Video Broadcasting (DVB); Subtitling systems".
- [3] [ETSI EN 301 192](#): "Digital Video Broadcasting (DVB); DVB specification for data broadcasting".
- [4] [ETSI EN 301 210](#): "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for Digital Satellite News Gathering (DSNG) and other contribution applications by satellite".
- [5] [ETSI EN 301 775](#): "Digital Video Broadcasting (DVB); Specification for the carriage of Vertical Blanking Information (VBI) data in DVB bitstreams".
- [6] [ETSI EN 301 790](#): "Digital Video Broadcasting (DVB); Interaction channel for satellite distribution systems".
- [7] [ETSI EN 302 307-1](#): "Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications; Part 1: DVB-S2".
- [8] [ETSI EN 302 307-2](#): "Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications; Part 2: DVB-S2 Extensions (DVB-S2X)".

- [9] [ETSI EN 302 769](#): "Digital Video Broadcasting (DVB); Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2)".
- [10] [ETSI EN 302 583](#): "Digital Video Broadcasting (DVB); Framing Structure, channel coding and modulation for Satellite Services to Handheld devices (SH) below 3 GHz".
- [11] [ETSI EN 302 755](#): "Digital Video Broadcasting (DVB); Frame structure channel coding and modulation for a second generation digital terrestrial television broadcasting system (DVB-T2)".
- [12] [ETSI EN 303 560](#): "Digital Video Broadcasting (DVB); TTML subtitling systems".
- [13] [ETSI ES 201 812](#): "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.0.3".
- [14] [ETSI TS 101 154](#): "Digital Video Broadcasting (DVB); Specification for the use of Video and Audio Coding in Broadcast and Broadband Applications".
- [15] [ETSI TS 101 162](#): "Digital Video Broadcasting (DVB); Allocation of identifiers and codes for Digital Video Broadcasting (DVB) systems".
- [16] [ETSI TS 101 547-2](#): "Digital Video Broadcasting (DVB); Plano-stereoscopic 3DTV; Part 2: Frame Compatible Plano-stereoscopic 3DTV".
- [17] [ETSI TS 101 547-3](#): "Digital Video Broadcasting (DVB); Plano-stereoscopic 3DTV; Part 3: HDTV Service Compatible Plano-stereoscopic 3DTV".
- [18] [ETSI TS 101 547-4](#): "Digital Video Broadcasting (DVB); Plano-stereoscopic 3DTV; Part 4: Service frame compatible Plano-stereoscopic 3DTV for HEVC coded services".
- [19] [ETSI TS 102 005](#): "Digital Video Broadcasting (DVB); Specification for the use of Video and Audio Coding in DVB services delivered directly over IP protocols".
- [20] [ETSI TS 102 006](#): "Digital Video Broadcasting (DVB); Specification for System Software Update in DVB Systems".
- [21] [ETSI TS 102 323](#): "Digital Video Broadcasting (DVB); Carriage and signalling of TV-Anytime information in DVB transport streams".
- [22] [ETSI TS 102 770](#): "Digital Video Broadcasting (DVB); System Renewability Messages (SRM) in DVB Systems".
- [23] [ETSI TS 102 772](#): "Digital Video Broadcasting (DVB); Specification of Multi-Protocol Encapsulation - inter-burst Forward Error Correction (MPE-iFEC)".
- [24] [ETSI TS 102 773](#): "Digital Video Broadcasting (DVB); Modulator Interface (T2-MI) for a second generation digital terrestrial television broadcasting system (DVB-T2)".
- [25] [ETSI TS 102 809](#): "Digital Video Broadcasting (DVB); Signalling and carriage of interactive applications and services in Hybrid Broadcast/Broadband environments".
- [26] [ETSI TS 102 812](#): "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.1.3".
- [27] [ETSI TS 102 825](#) (parts 1 to 5, 7, 9 and 10): "Digital Video Broadcasting (DVB); Content Protection and Copy Management (DVB-CPCM)".
- [28] [ETSI EN 300 231](#): "Television systems; Specification of the domestic video Programme Delivery Control system (PDC)".
- [29] [ETSI EN 300 401](#): "Radio Broadcasting Systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers".
- [30] [ETSI EN 300 706](#): "Enhanced Teletext specification".
- [31] [EN 50221](#): "Common interface specification for conditional access and other digital video broadcasting decoder applications", (produced by CENELEC).

- [32] [IETF RFC 2045](#): "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies".
- [33] [IETF RFC 3986](#): "Uniform Resource Identifiers (URI): Generic Syntax".
- [34] [ISO 3166 \(all parts\)](#): "Codes for the representation of names of countries and their subdivisions".
- [35] [ISO 639-2](#): "Codes for the representation of names of languages - Part 2: Alpha-3 code".
- [36] [ISO 8601-1](#): "Date and time -- Representations for information interchange -- Part 1: Basic rules".
- [37] [ISO/IEC 6937](#): "Information technology - Coded graphic character set for text communication - Latin alphabet".
- [38] [ISO/IEC 8859-1](#): "Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1".
- [39] [ISO/IEC 8859-2](#): "Information technology - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 2".
- [40] [ISO/IEC 8859-3](#): "Information technology - 8-bit single-byte coded graphic character sets - Part 3: Latin alphabet No. 3".
- [41] [ISO/IEC 8859-4](#): "Information technology - 8-bit single-byte coded graphic character sets - Part 4: Latin alphabet No. 4".
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- [45] [ISO/IEC 8859-8](#): "Information technology - 8-bit single-byte coded graphic character sets - Part 8: Latin/Hebrew alphabet".
- [46] [ISO/IEC 8859-9](#): "Information technology - 8-bit single-byte coded graphic character sets - Part 9: Latin alphabet No. 5".
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