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Digital Video Broadcasting (DVB); Implementation guidelines for Data Broadcasting

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Foreword

This Technical Report (TR) 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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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.

1 Scope

The present document provides implementation guidelines for the use and implementation of the Digital Video Broadcasting (DVB) data broadcast service in a DVB digital broadcast environment including satellite-, cable-, MMDS- and terrestrial networks.

The guidelines are intended to be highly recommended rules for the usage of the DVB data broadcast specification as put down in EN 301 192 [1]. As such, they facilitate the efficient and reliable implementation of data broadcast services. The rules apply to broadcasters, network operators as well as manufacturers.

The rules are specified in the form of constraints on the data broadcast implementation.

The specification of these functions in no way prohibits end consumer device manufacturers from including additional features, and should not be interpreted as stipulating any form of upper limit to the performance.

NOTE: It is highly recommended that the end consumer device should be designed to allow for future compatible extensions to the DVB data broadcast specification. All the fields "reserved" (for ISO), "reserved_future_use" (for ETSI), and "user defined" in the EN 301 192 [1] should be ignored by end consumer devices not to make use of them. The "reserved" and "reserved_future_use" field may be specified in the future by the respective bodies, whereas the "user defined" field will not be standardized.

This guidelines document uses the terminology defined in EN 301 192 [1] and should be read in conjunction with that document.

2 References

For the purposes of this Technical Report (TR) the following references apply:

[1] ETSI EN 301 192 (V1.3.1): "Digital Video Broadcasting (DVB); DVB specification for data broadcasting".

[2] ISO/IEC 13818-1: "Information technology - Generic coding of moving pictures and associated audio information: Systems".

[3] ETSI ETS 300 802: "Digital Video Broadcasting (DVB); Network-independent protocols for DVB interactive services.

[4] ISO/IEC 13818-6: "Information technology - Generic coding of moving pictures and associated audio information - Part 6: Extensions for DSM-CC".

[5] IETF RFC 791 (1981): "Internet Protocol", J. Postel.

[6] ETSI EN 300 468: "Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB systems".

[7] ETSI EN 300 472: "Digital Video Broadcasting (DVB); Specification for conveying ITU-R System B Teletext in DVB bitstreams".

[8] ETSI EN 300 743: "Digital Video Broadcasting (DVB); Subtitling system".

[9] OMG Specification (1995): "The Common Object Request Broker: Architecture and Specification", Revision 2.0.

[10] IETF RFC 1521 (1993): "MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies", N. Borenstein, N. Freed.

[11] IETF RFC 1590 (1994): "Media Type Registration Procedure", J. Postel (Updates RFC 1521).

[12] James Rumbaugh (1995): "OMT: The Object Model", JOOP 7.8.

[13] IETF RFC 1112 (1988): "Host extensions for IP multicasting", S.E. Deering.