

ETSI TS 102 542-2 V2.1.1 (2016-04)



**Digital Video Broadcasting (DVB);
Guidelines for the implementation of
DVB-IPTV Phase 1 specifications;
Part 2: Broadband Content Guide (BCG) and
Content on Demand**

EBU
OPERATING EUROVISION

DVB[®]
Digital Video
Broadcasting

Reference

RTS/JTC-DVB-360-2

Keywords

broadcasting, digital, DVB, IP, TV, video

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Foreword

This Technical Specification (TS) 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 Digital Video Broadcasting Project (DVB) is an industry-led consortium of broadcasters, manufacturers, network operators, software developers, regulatory bodies, content owners and others committed to designing global standards for the delivery of digital television and data services. DVB fosters market driven solutions that meet the needs and economic circumstances of broadcast industry stakeholders and consumers. DVB standards 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 to provide global standardization, interoperability and future proof specifications.

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [9].

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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1 Scope

The present document is designed as a companion document to help implement the DVB-IPTV Phase 1 specification ETSI TS 102 034 [1], which is referred to as the Handbook.

The present document deals with Broadband Content Guide (BCG) and Content on Demand. It presents the ways to discover BCG and Content on Demand, and how to connect to them. The present document is organized in separate sections in the order of the boot-up sequence of the HNEP rather than in the same section structure as the Handbook. Each clause deals with a specific aspect of the DVB-IPTV technology, and offers explanations and examples not found in the Handbook. Additionally, it provides guidelines to implement the Broadband Content Guide (BCG) specification [3].

Since version 6 the DVB IPTV Handbook [1] also supports the usage of IPv6 addresses and accompanying methods (e.g. for address assigning and multicast support). For the sake of convenience, some examples presented in the present document still make use of IPv4 addresses although IPv6 addresses could also be used. Due to the fact that the IPTV Handbook supports IPv4 and IPv6 in parallel, there is no example which could only work in either an IPv4 or an IPv6 network.

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

- [1] ETSI TS 102 034 (V2.1.1): "Digital Video Broadcasting (DVB); Transport of MPEG-2 TS Based DVB Services over IP Based Networks".
- [2] ETSI TS 101 154: "Digital Video Broadcasting (DVB); Specification for the use of Video and Audio Coding in Broadcasting Applications based on the MPEG-2 Transport Stream".

NOTE: The support of Scalable Video Codec (SVC) is not defined in the present document.

- [3] ETSI TS 102 539 (V1.2.1): "Digital Video Broadcasting (DVB); Carriage of Broadband Content Guide (BCG) information over Internet Protocol (IP)".
- [4] ETSI TS 102 822-2 (V1.3.1): "Broadcast and On-line Services: Search, select, and rightful use of content on personal storage systems ("TV-Anytime"); Part 2: System description".
- [5] ETSI TS 102 822-3-2 (V1.3.1): "Broadcast and On-line Services: Search, select, and rightful use of content on personal storage systems ("TV-Anytime"); Part 3: Metadata; Sub-part 2: System aspects in a uni-directional environment".
- [6] ETSI TS 102 822-4 (V1.2.1): "Broadcast and On-line Services: Search, select, and rightful use of content on personal storage systems ("TV-Anytime"); Part 4: Content referencing".
- [7] ETSI TS 102 822-6-1 (V1.3.1): "Broadcast and On-line Services: Search, select, and rightful use of content on personal storage systems ("TV-Anytime"); Part 6: Delivery of metadata over a bi-directional network; Sub-part 1: Service and transport".
- [8] ETSI TS 102 323: "Digital Video Broadcasting (DVB); Carriage and signalling of TV-Anytime information in DVB transport streams".