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Technical Report

Digital Video Broadcasting (DVB); Register of DVB URNs and Classification Schemes

Reference
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Contents

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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.

Introduction

DVB is using XML [i.1] technologies for defining its metadata. The tools chosen for this are XML Schema [i.2] and Classification Schemes. For usability reasons DVB chose to publish these on-line so they could be readily used by authoring tools and connected terminals alike.

1 Scope

The present document lists and briefly describes all generic and application domains specific XML Schemas and Classification Schemes published by DVB. The full XML documents are available on-line at http://www.dvb.org/metadata/ and hence not reproduced here. Presence of an XML document at the mentioned URL implies its status as a formal DVB publication. As the present document is updated only in regular intervals, absence of an XML document from the present document but which is available on-line does thus not imply that the respective XML document is not an official DVB publication.

The present document is to serve as a normative reference to those on-line XML documents by DVB and others.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
  - for informative references.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

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

2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

Not applicable.

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area**.** For non-specific references, the latest version of the referenced document (including any amendments) applies.

[i.1] "Extensible Markup Language (XML) 1.0 (Fourth Edition)". First published 4 February 2004, revised 16 August 2006, Jean Paoli, Tim Bray, François Yergeau, C. M. Sperberg-McQueen, Eve Maler.

[i.2] "XML Schema Part 0: Primer Second Edition". First published 2 May 2001, revised 28 October 2004, Priscilla Walmsley, David C. Fallside.

[i.3] "XML Schema Part 1: Structures Second Edition". First published 2 May 2001, revised 28 October 2004, David Beech, Henry S. Thompson, Murray Maloney, Noah Mendelsohn.

[i.4] "XML Schema Part 2: Datatypes Second Edition". First published 2 May 2001, revised 28 October 2004, Ashok Malhotra, Paul V. Biron.

[i.5] ISO/IEC 14496-10: "Information technology - Coding of audio-visual objects - Part 10: Advanced Video Coding".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

classification scheme: arrangement or division of objects into groups based on characteristics which the objects have in common

3.2 Abbreviations

For the purposes of the present document the following abbreviations apply:

BCG	Broadband Content Guide
CS	Classification Scheme
XML	Extensible Markup Language

4 XML Schemas

This clause lists all generic XML Schemas [i.2], [i.3], and [i.4] defined by DVB in alphabetical order. These Schemas are written against the http://www.w3.org/2001/XMLSchema namespace.

- **DVB Classification Scheme schema**
  urn:dvb:metadata:schema:dvbCSschema:2007
  This schema defines a Schema for authoring Classification Schemes. It is derived from the TV-Anytime CS Schema in that the form of the termIDType is restricted by a pattern and the TextualType is extended by an optional language attribute. It however is backwards compatible with the TV-Anytime Schema and CS entries can therefore be referenced using the tva:controlledTermType.

5. Classification Schemes

This clause lists all XML Classification Schemes (CS) [i.1] defined by DVB in alphabetical order. These CS are written against the urn:dvb:metadata:schema:dvbCSschema:2007 namespace.

- **Audio Codec**
  urn:dvb:metadata:cs:AudioCodecCS:2007
  This CS complements the MPEG-7 Audio Coding Format CS by adding the DVB defined audio codecs not part of the MPEG-7CS:
  - MPEG-4 DVB Audio.
  - MPEG-4 High Efficiency Advanced Audio Profile.
  - MPEG-4 High Efficiency Advanced Audio v2 Profile.
  - AMR DVB.
  - AC-3.

- **BCG Type**
  urn:dvb:metadata:cs:BCGTypeCS:2007
  This CS lists the types of content described by Broadband Content Guides (BCG). Currently the following types are defined:

  - BCG for live TV programs.
  - BCG for Content on Demand (CoD) programs.
  - BCG for downloadable content.

- **Parental Guidance**
  urn:dvb:metadata:cs:ParentalGuidanceCS:2007
  This CS lists the parental guidance restriction recommendations for currently 21 regions. It will be extended to further regions and content as new services and applications emerge.

- **Video Codec**
  urn:dvb:metadata:cs:VideoCodecCS:2007
  This CS complements the MPEG-7 Visual Coding Format CS by adding the DVB defined video codecs not part of the MPEG-7CS:

  - ISO/IEC 14496-10 [i.5] Video Codec. Also known as H.264.
  - VC-1.

Annex A: Bibliography

- ETSI TS 102 539: " Digital Video Broadcasting (DVB); Carriage of Broadband Content Guide (BCG) information over Internet Protocol (IP)".

History

Document history		
V1.1.1	May 2009	Publication