



SLOVENSKI STANDARD
SIST EN 300 468 V1.13.1:2012
01-oktober-2012

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

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: **EN 300 468 Version 1.13.1**

SIST EN 300 468 V1.13.1:2012
<https://standards.iteh.ai/catalog/standards/sist/e79751b7-655a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012>

ICS:

33.170

Televizijska in radijska
difuzija

Television and radio
broadcasting

SIST EN 300 468 V1.13.1:2012

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 300 468 V1.13.1:2012](https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012>

ETSI EN 300 468 V1.13.1 (2012-08)



Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB systems (standards.iteh.ai)

[SIST EN 300 468 V1.13.1:2012](https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012>



Reference

REN/JTC-DVB-314

Keywordsbroadcasting, digital, DVB, MPEG, service, TV,
video**ETSI**650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 300 468 V1.13.1:2012<https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930192/etsi-en-300-468-v1-13-1-2012>**Important notice**

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2012.

© European Broadcasting Union 2012.

All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPP™ and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.
GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	7
Foreword.....	7
1 Scope	8
2 References	8
2.1 Normative references	8
2.2 Informative references.....	11
3 Definitions and abbreviations.....	11
3.1 Definitions.....	11
3.2 Abbreviations	14
4 Service Information (SI) description	17
5 Service Information (SI) tables	19
5.1 SI table mechanism	19
5.1.1 Explanation	19
5.1.2 Mapping of sections into Transport Stream (TS) packets.....	20
5.1.3 Coding of PID and table_id fields	20
5.1.4 Repetition rates and random access	21
5.1.5 Scrambling	21
5.2 Table definitions.....	21
5.2.1 Network Information Table (NIT).....	22
5.2.2 Bouquet Association Table (BAT).....	23
5.2.3 Service Description Table (SDT).....	25
5.2.4 Event Information Table (EIT).....	26
5.2.5 Time and Date Table (TDT).....	29
5.2.6 Time Offset Table (TOT).....	29
5.2.7 Running Status Table (RST).....	30
5.2.8 Stuffing Table (ST).....	31
5.2.9 Discontinuity Information Table (DIT)	31
5.2.10 Selection Information Table (SIT).....	31
6 Descriptors	31
6.1 Descriptor identification and location	31
6.2 Descriptor coding	33
6.2.1 Adaptation field data descriptor.....	33
6.2.2 Ancillary data descriptor.....	34
6.2.3 Announcement support descriptor.....	35
6.2.4 Bouquet name descriptor	36
6.2.5 CA identifier descriptor	37
6.2.6 Cell frequency link descriptor.....	37
6.2.7 Cell list descriptor.....	38
6.2.8 Component descriptor.....	39
6.2.9 Content descriptor.....	42
6.2.10 Country availability descriptor	44
6.2.11 Data broadcast descriptor.....	45
6.2.12 Data broadcast id descriptor.....	46
6.2.13 Delivery system descriptors.....	46
6.2.13.1 Cable delivery system descriptor	46
6.2.13.2 Satellite delivery system descriptor.....	48
6.2.13.3 S2 satellite delivery system descriptor	49
6.2.13.4 Terrestrial delivery system descriptor	50
6.2.14 DSNG descriptor	52
6.2.15 Extended event descriptor.....	52
6.2.16 Extension descriptor	54
6.2.17 Frequency list descriptor.....	54
6.2.18 FTA content management descriptor.....	55

6.2.18.1	Scope of FTA content management descriptor	57
6.2.19	Linkage descriptor	57
6.2.19.1	Mobile hand-over linkage	59
6.2.19.2	Event linkage.....	59
6.2.19.3	Extended event linkage	60
6.2.20	Local time offset descriptor	63
6.2.21	Mosaic descriptor.....	64
6.2.22	Multilingual bouquet name descriptor.....	66
6.2.23	Multilingual component descriptor.....	67
6.2.24	Multilingual network name descriptor.....	68
6.2.25	Multilingual service name descriptor.....	68
6.2.26	Near Video On Demand (NVOD) reference descriptor.....	69
6.2.27	Network name descriptor.....	70
6.2.28	Parental rating descriptor	70
6.2.29	Partial Transport Stream (TS) descriptor	70
6.2.30	PDC descriptor.....	71
6.2.31	Private data specifier descriptor.....	71
6.2.32	Scrambling descriptor	71
6.2.33	Service descriptor	72
6.2.34	Service availability descriptor.....	73
6.2.35	Service list descriptor.....	74
6.2.36	Service move descriptor.....	74
6.2.37	Short event descriptor	75
6.2.38	Short smoothing buffer descriptor	75
6.2.39	Stream identifier descriptor.....	77
6.2.40	Stuffing descriptor	77
6.2.41	Subtitling descriptor.....	78
6.2.42	Telephone descriptor.....	79
6.2.43	Teletext descriptor	80
6.2.44	Time shifted event descriptor.....	81
6.2.45	Time shifted service descriptor.....	81
6.2.46	Transport stream descriptor	81
6.2.47	VBI data descriptor.....	82
6.2.48	VBI teletext descriptor.....	83
6.3	Extended descriptor identification and location	83
6.4	Extended descriptor coding	84
6.4.1	CP descriptor	84
6.4.2	CP identifier descriptor.....	85
6.4.3	CPCM delivery signalling descriptor.....	85
6.4.4	Delivery system descriptors.....	85
6.4.4.1	C2 delivery system descriptor	85
6.4.4.2	SH delivery system descriptor.....	87
6.4.4.3	T2 delivery system descriptor	91
6.4.5	Image icon descriptor.....	94
6.4.6	Message descriptor	96
6.4.7	Network change notify descriptor.....	96
6.4.8	Service relocated descriptor.....	98
6.4.9	Supplementary audio descriptor	99
6.4.10	Target region descriptor.....	100
6.4.11	Target region name descriptor	101
6.4.12	T2-MI descriptor.....	103
6.4.13	Video depth range descriptor.....	103
6.4.13.1	Production disparity hint	104
6.5	Scoping rules for scoping descriptors.....	105
7	Storage Media Interoperability (SMI) measures	105
7.1	SMI tables	105
7.1.1	Discontinuity Information Table (DIT)	106
7.1.2	Selection Information Table (SIT).....	106
7.2	SMI descriptors	107
7.2.1	Partial Transport Stream (TS) descriptor	107

Annex A (normative):	Coding of text characters	109
A.1	Control codes.....	109
A.2	Selection of character table	109
Annex B (normative):	CRC decoder model.....	122
Annex C (informative):	Conversion between time and date conventions	123
Annex D (informative):	Service information implementation of AC-3 and Enhanced AC-3 audio in DVB systems	125
D.1	AC-3 and Enhanced AC-3 component types.....	125
D.2	AC-3 Descriptor	126
D.3	AC-3 Descriptor Syntax	126
D.3.1	Semantics for the AC-3 descriptor	127
D.4	Enhanced_AC-3 Descriptor	128
D.5	Enhanced_AC-3 Descriptor Syntax	128
D.5.1	Semantics for the Enhanced AC-3 descriptor.....	129
Annex E (normative):	Usage of the Scrambling_descriptor	131
Annex F (informative):	ISO 639 Language Descriptor for "original audio" Soundtrack	132
Annex G (informative):	Service information implementation of DTS coded audio in DVB systems	133
G.1	DTS Audio descriptor	133
G.2	DTS Descriptor Syntax	133
G.2.1	Semantics for the DTS descriptor.....	133
Annex H (informative):	Service information implementation of AAC coded audio in DVB systems	136
H.1	AAC Audio descriptor.....	136
H.2	AAC_Descriptor Syntax.....	136
H.2.1	Semantics for the AAC descriptor.....	136
Annex I (normative):	Assignment and interpretation of the service_type field.....	138
I.1	Background	138
I.2	Assignment of service_type	138
I.2.1	service_type "digital television service" (0x01).....	138
I.2.2	service_type "advanced codec" (various).....	139
I.2.3	service_type "advanced codec frame compatible stereoscopic HD" (various).....	139
Annex J (normative):	Signalling of Receiver-Mixed and Broadcast-Mixed Supplementary Audio.....	140
J.1	Overview	140
J.2	Receiver-mixed supplementary audio	140
J.2.1	Introduction	140
J.2.2	PSI PMT signalling	140
J.2.3	EIT signalling.....	140
J.3	Broadcast-mixed supplementary audio	141
J.3.1	Introduction	141
J.3.2	PSI PMT signalling	141
J.3.3	EIT signalling.....	141

J.4	PSI signalling of audio purpose.....	142
Annex K (informative):	Bibliography.....	143
History		144

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 300 468 V1.13.1:2012](https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012>

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://ipr.etsi.org>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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.

European Broadcasting Union
 CH-1218 GRAND SACONNEX (Geneva)
 Switzerland
 Tel: +41 22 717 21 11
 Fax: +41 22 717 24 81

standards.iteh.ai
 SIST EN 300 468 V1.13.1:2012
standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012

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 standardisation, interoperability and future proof specifications.

National transposition dates

Date of adoption of this EN:	14 August 2012
Date of latest announcement of this EN (doa):	30 November 2012
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2013
Date of withdrawal of any conflicting National Standard (dow):	31 May 2013

1 Scope

The present document specifies the Service Information (SI) data which forms a part of 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 [18] 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 Guides (EPGs) will be a feature of Digital 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 TS 101 211 [i.2].

2 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 reference document (including any amendments) applies.

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.

[SIST EN 300 468 V1.13.1:2012](http://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012)

[https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-](https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012)

[2ea960930b9e/sist-en-300-468-v1-13-1-2012](https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-2ea960930b9e/sist-en-300-468-v1-13-1-2012)

2.1 Normative references

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

- [1] ETSI EN 300 231: "Television systems; Specification of the domestic video Programme Delivery Control system (PDC)".
- [2] ETSI EN 300 401: "Radio Broadcasting Systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers".
- [3] ETSI EN 300 706: "Enhanced Teletext specification".
- [4] ETSI EN 301 192: "Digital Video Broadcasting (DVB); DVB specification for data broadcasting".
- [5] 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".
- [6] ETSI EN 301 775: "Digital Video Broadcasting (DVB); Specification for the carriage of Vertical Blanking Information (VBI) data in DVB bitstreams".
- [7] ETSI EN 301 790: "Digital Video Broadcasting (DVB); Interaction channel for satellite distribution systems".
- [8] ETSI EN 302 307: "Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications (DVB-S2)".
- [9] 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".

- [10] 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".
- [11] ETSI TS 102 006: "Digital Video Broadcasting (DVB); Specification for System Software Update in DVB Systems".
- [12] ETSI TS 102 114: "DTS Coherent Acoustics; Core and Extensions with Additional Profiles".
- [13] ETSI TS 102 323: "Digital Video Broadcasting (DVB); Carriage and signalling of TV-Anytime information in DVB transport streams".
- [14] ETSI TS 102 366: "Digital Audio Compression (AC-3, Enhanced AC-3) Standard".
- [15] ETSI TS 102 812: "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.1.1".
- [16] ISO/IEC 10646: "Information technology - Universal Coded Character Set (UCS)".
- [17] ISO/IEC 11172-3: "Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s - Part 3: Audio".
- [18] ISO/IEC 13818-1: "Information technology - Generic coding of moving pictures and associated audio information: Systems".
- [19] ISO/IEC 13818-2: "Information technology - Generic coding of moving pictures and associated audio information: Video".
- [20] ISO/IEC 13818-3: "Information technology - Generic coding of moving pictures and associated audio information - Part 3: Audio".
- [21] ISO/IEC 14496-3: "Information technology - Coding of audio-visual objects - Part 3: Audio".
- [22] ISO/IEC 6937: "Information technology - Coded graphic character set for text communication - Latin alphabet".
- [23] ISO/IEC 8859-1: "Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1".
- [24] ISO/IEC 8859-2: "Information technology - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 2".
- [25] ISO/IEC 8859-3: "Information technology - 8-bit single-byte coded graphic character sets - Part 3: Latin alphabet No. 3".
- [26] ISO/IEC 8859-4: "Information technology - 8-bit single-byte coded graphic character sets - Part 4: Latin alphabet No. 4".
- [27] ISO/IEC 8859-5: "Information technology - 8-bit single-byte coded graphic character sets - Part 5: Latin/Cyrillic alphabet".
- [28] ISO/IEC 8859-6: "Information technology - 8-bit single-byte coded graphic character sets - Part 6: Latin/Arabic alphabet".
- [29] ISO/IEC 8859-7: "Information technology - 8-bit single-byte coded graphic character sets - Part 7: Latin/Greek alphabet".
- [30] ISO/IEC 8859-8: "Information technology - 8-bit single-byte coded graphic character sets - Part 8: Latin/Hebrew alphabet".
- [31] ISO/IEC 8859-9: "Information technology - 8-bit single-byte coded graphic character sets - Part 9: Latin alphabet No. 5".
- [32] ISO/IEC 8859-10: "Information technology - 8-bit single-byte coded graphic character sets - Part 10: Latin alphabet No. 6".
- [33] ISO/IEC 8859-11: "Information technology - 8-bit single-byte coded graphic character sets - Part 11: Latin/Thai alphabet".

- [34] ISO/IEC 8859-13: "Information technology - 8-bit single-byte coded graphic character sets - Part 13: Latin alphabet No. 7".
- [35] ISO/IEC 8859-14: "Information technology - 8-bit single-byte coded graphic character sets - Part 14: Latin alphabet No. 8 (Celtic)".
- [36] ISO/IEC 8859-15: "Information technology - 8-bit single-byte coded graphic character sets - Part 15: Latin alphabet No. 9".
- [37] CENELEC EN 50221: "Common interface specification for conditional access and other digital video broadcasting decoder applications".
- [38] IEC 61883 (parts 1 and 4): "Consumer audio/video equipment - Digital interface".
- [39] IEEE 1394.1: "IEEE Standard for High Performance Serial Bus Bridges".
- [40] ISO 8601: "Data elements and interchange formats - Information interchange - Representation of dates and times".
- [41] ISO 3166 (all parts): "Codes for the representation of names of countries and their subdivisions".
- [42] ISO 639-2: "Codes for the representation of names of languages - Part 2: Alpha-3 code".
- [43] ITU-R Recommendation BS.1196-2 (appendix 3): "Audio coding for digital broadcasting".

NOTE: Appendix 3 contains additional information on the AC-3 audio encoding algorithm and decoding requirements, relevant to the present document.

- [44] KSX1001: "Code for Information Interchange (Hangeul and Hanja)", Korean Agency for Technology and Standards, Ref. No. KSX 1001-2004.

NOTE: Available at <http://unicode.org/Public/MAPPINGS/OBSOLETE/EASTASIA/KSC/KSX1001.TXT>.

- [45] ETSI ES 201 812: "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.0.3". [SIST EN 300 468 V1.13.1:2012](https://standards.iteh.ai/catalog/standards/sist/e79731b7-635a-40d8-bc7b-222222222222/etsi-es-201-812-2002)
- [46] ETSI TS 102 825 (parts 1 to 5, 7, 9 and 10): "Digital Video Broadcasting (DVB); Content Protection and Copy Management (DVB-CPCM)".
- [47] 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)".
- [48] Void.
- [49] ETSI TS 102 770: "Digital Video Broadcasting (DVB); System Renewability Messages (SRM) in DVB Systems".
- [50] ETSI EN 302 583: "Digital Video Broadcasting (DVB); Framing Structure, channel coding and modulation for Satellite Services to Handheld devices (SH) below 3 GHz".
- [51] ETSI TS 102 772: "Digital Video Broadcasting (DVB); Specification of Multi-Protocol Encapsulation - inter-burst Forward Error Correction (MPE-iFEC)".
- [52] IETF RFC 2045: "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies".
- [53] 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)".
- [54] ETSI TS 101 547: "Digital Video Broadcasting (DVB); Frame Compatible Plano-Stereoscopic 3DTV".
- [55] ETSI TS 102 809: "Digital Video Broadcasting (DVB); Signalling and carriage of interactive applications and services in Hybrid Broadcast/Broadband environments".
- [56] ETSI TS 102 773: "Digital Video Broadcasting (DVB); Modulator Interface (T2-MI) for a second generation digital terrestrial television broadcasting system (DVB-T2)".

- [57] GB-2312-1980: "Code of Chinese graphic character set for information interchange, primary set".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI TS 101 162: "Digital Video Broadcasting (DVB); Allocation of identifiers and codes for Digital Video Broadcasting (DVB) systems".
- [i.2] ETSI TS 101 211: "Digital Video Broadcasting (DVB); Guidelines on implementation and usage of Service Information (SI)".
- [i.3] ETSI TS 102 727: "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.2.2".
- [i.4] ETSI TR 102 825 (parts 6, 8, 11 to 13): "Digital Video Broadcasting (DVB); Content Protection and Copy Management (DVB-CPCM)".
- [i.5] ETSI TS 102 201: "Digital Video Broadcasting (DVB); Interfaces for DVB Integrated Receiver Decoder (DVB-IRD)".
- [i.6] ETSI EN 300 429: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems".
- [i.7] ETSI EN 300 421: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for 11/12 GHz satellite services".
- [i.8] ETSI EN 300 744: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for digital terrestrial television".

STANDARD PREVIEW
(standards.iteh.ai)

3 Definitions and abbreviations

3.1 Definitions

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

AC-3: refers to the coding of audio using the Dolby AC-3 method

NOTE: The Service Information requirements for AC-3 streams carried in DVB systems are described in annex D. The carriage of AC-3 elementary streams as private data within MPEG systems is described in annex C of TS 101 154 [9].

bouquet: collection of services marketed as a single entity

broadcaster (SERVICE Provider): organization which assembles a sequence of events or data streams to be delivered to the viewer; the delivery can be based upon a schedule

cell: geographical area that is covered with DVB-T signals delivering one or more particular transport streams throughout the area by means of one or more transmitters

NOTE: The cell may in addition contain repeaters. Two neighbouring cells may be intersecting or fully overlapping. The cell_id that is used to uniquely identify a cell is unique within each original_network_id. For hand-over purposes it is more convenient if the transport streams associated with the cell cover exactly the same area, or only one transport stream per cell is used.

component (ELEMENTARY Stream): one or more entities which together make up an event

EXAMPLE: Video, audio, teletext.

Conditional Access (CA) system: system to control subscriber access to services, data streams and events

EXAMPLE: Videoguard, Eurocrypt.

delivery system: physical medium by which one or more DVB transport streams are transmitted

EXAMPLE: Satellite system, wide-band coaxial cable, fibre optics, terrestrial channel of one emitting point.

DVB transport stream: an MPEG-2 transport stream [18] containing the mandatory DVB-SI signalling as defined in the present document

NOTE: It is recommended that the DVB-SI implementation guidelines [i.2] should be followed in addition. They define additional requirements for the signalling to help improve the quality of experience for viewers.

event: grouping of elementary broadcast data streams with a defined start time and duration belonging to a common service

EXAMPLE: First half of a football match, News Flash, first part of an entertainment show.

forbidden: when used in the clauses defining the coded bit stream, indicates that the value is never used

MPEG-2: See ISO/IEC 13818 [18].

NOTE: Systems coding is defined in part 1 [18]. Video coding is defined in part 2 [19]. Audio coding is defined in part 3 [20].

network: managed and navigable collection of DVB transport streams transmitted on one or more delivery systems generally based on the same physical medium

NOTE 1: It is possible to operate both, first and second generation delivery systems in the same network (e.g. DVB-T and DVB-T2).

NOTE 2: A network is identified by its network_id. It might be composed of one or more emitting sites.

n PSK: n-valued Phase Shift Keying (other than quaternary)

original_network_id: unique identifier of a broadcast platform operator

NOTE: This value is assigned by DVB.

repeater: equipment which allows reception of a terrestrial signal and to re-transmit it unchanged

NOTE: Hence it does not support changing of the cell_id.

reserved: when used in the clause defining the coded bit stream, indicates that the value may be used in the future for ISO defined extensions

NOTE: Unless otherwise specified within the present document all "reserved" bits are set to "1".

reserved_future_use: when used in the clause defining the coded bit stream, indicates that the value may be used in the future for ETSI defined extensions

NOTE: Unless otherwise specified within the present document all "reserved_future_use" bits is set to "1".

section: syntactic structure used for mapping all service information defined in the present document into ISO/IEC 13818-1 [18] TS packets

service: a grouping (usually defined by a PMT) of one or more data streams which are offered as a whole to the user

service_id: unique identifier of a service within a DVB transport stream

NOTE: In areas where TS 101 211 [i.2] is applicable in addition to the present document, a service_id is also unique within the scope of an original_network_id.

Service Information (SI): describes the delivery system, and the content and scheduling/timing of services and events

NOTE: It includes MPEG-2 Program Specific Information (PSI) together with DVB-defined extensions.

subcell: geographical area that is part of the cells coverage area and that is covered with DVB-T signals by means of a transposer

NOTE: In conjunction with the cell_id the cell_id_extension is used to uniquely identify a subcell.

sub_table: collection of sections with the same value of table_id and:

for a NIT: the same table_id_extension (network_id) and version_number;

for a BAT: the same table_id_extension (bouquet_id) and version_number;

for a SDT: the same table_id_extension (transport_stream_id), the same original_network_id and version_number;

for a EIT: the same table_id_extension (service_id), the same transport_stream_id, the same original_network_id and version_number.

NOTE: The table_id_extension field is equivalent to the fourth and fifth byte of a section when the section_syntax_indicator is set to a value of "1".

table: comprised of a number of sub_tables with the same value of table_id

transmitter: equipment that emits a modulated DVB stream

Transport Stream (TS): data structure defined in ISO/IEC 13818-1 [18]

NOTE: It is the basis of the DVB standards.

transport_stream_id: unique identifier of a TS within an original network

transposer: special type of repeater which receives a terrestrial DVB signal and re-transmits it on a different frequency

The relationships of some of these definitions are illustrated in the service delivery model in figure 1.

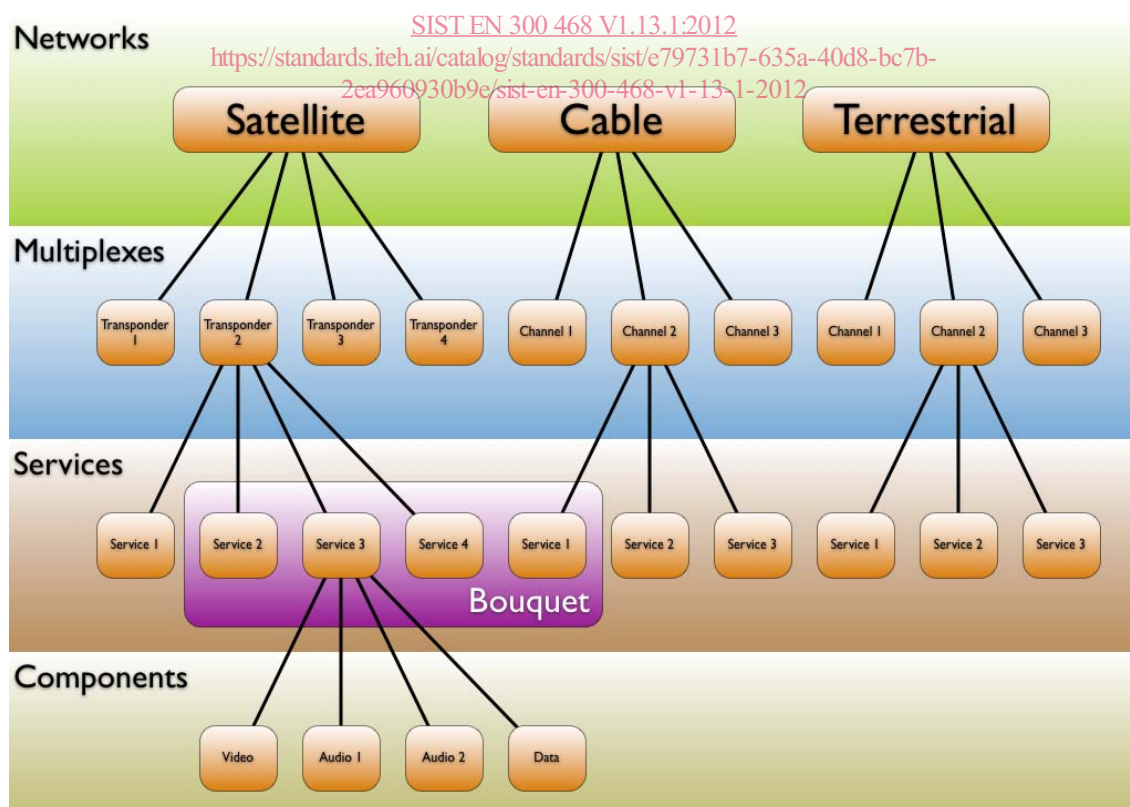


Figure 1: Digital broadcasting, service delivery model