

ETSI EN 300 468 V1.9.1 (2009-03)

European Standard (Telecommunications series)

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

European Broadcasting Union

Union Européenne de Radio-Télévision



STANDARD PREVIEW
(standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sis/08003328-0d38-4983-bd0e-59d50afc9016/etsi-en-300-468-v1-9-1-2009-03>

Reference

 REN/JTC-DVB-225

Keywords

 broadcasting, 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

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 2009.

© European Broadcasting Union 2009.

All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM, **TIPHON**TM, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPPTM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

LTETM is a Trade Mark of ETSI currently being 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	6
Foreword.....	6
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references.....	10
3 Definitions and abbreviations.....	10
3.1 Definitions.....	10
3.2 Abbreviations	13
4 Service Information (SI) description	14
5 Service Information (SI) tables	16
5.1 SI table mechanism	16
5.1.1 Explanation	17
5.1.2 Mapping of sections into Transport Stream (TS) packets.....	17
5.1.3 Coding of PID and table_id fields	18
5.1.4 Repetition rates and random access	19
5.1.5 Scrambling	19
5.2 Table definitions.....	19
5.2.1 Network Information Table (NIT).....	19
5.2.2 Bouquet Association Table (BAT)	21
5.2.3 Service Description Table (SDT).....	22
5.2.4 Event Information Table (EIT)	24
5.2.5 Time and Date Table (TDT)	26
5.2.6 Time Offset Table (TOT)	27
5.2.7 Running Status Table (RST).....	27
5.2.8 Stuffing Table (ST).....	28
5.2.9 Discontinuity Information Table (DIT).....	29
5.2.10 Selection Information Table (SIT).....	29
6 Descriptors	29
6.1 Descriptor identification and location	29
6.2 Descriptor coding	31
6.2.1 Adaptation field data descriptor	31
6.2.2 Ancillary data descriptor.....	31
6.2.3 Announcement support descriptor	32
6.2.4 Bouquet name descriptor	34
6.2.5 CA identifier descriptor	34
6.2.6 Cell frequency link descriptor.....	34
6.2.7 Cell list descriptor.....	35
6.2.8 Component descriptor.....	37
6.2.9 Content descriptor.....	39
6.2.10 Country availability descriptor	42
6.2.11 Data broadcast descriptor.....	42
6.2.12 Data broadcast id descriptor.....	43
6.2.13 Delivery system descriptors.....	43
6.2.13.1 Cable delivery system descriptor	44
6.2.13.2 Satellite delivery system descriptor.....	45
6.2.13.3 S2 satellite delivery system descriptor	46
6.2.13.4 Terrestrial delivery system descriptor	47
6.2.14 DSNG descriptor	49
6.2.15 Extended event descriptor.....	50
6.2.16 Extension descriptor	51
6.2.17 Frequency list descriptor.....	51
6.2.18 FTA content management descriptor.....	52

6.2.18.1	Scope of FTA content management descriptor	54
6.2.19	Linkage descriptor	55
6.2.20	Local time offset descriptor	57
6.2.21	Mosaic descriptor.....	58
6.2.22	Multilingual bouquet name descriptor	60
6.2.23	Multilingual component descriptor.....	61
6.2.24	Multilingual network name descriptor.....	62
6.2.25	Multilingual service name descriptor.....	62
6.2.26	Near Video On Demand (NVOD) reference descriptor.....	63
6.2.27	Network name descriptor.....	64
6.2.28	Parental rating descriptor	64
6.2.29	Partial Transport Stream (TS) descriptor	64
6.2.30	PDC descriptor.....	65
6.2.31	Private data specifier descriptor.....	65
6.2.32	Scrambling descriptor	65
6.2.33	Service descriptor	66
6.2.34	Service availability descriptor.....	67
6.2.35	Service list descriptor.....	68
6.2.36	Service move descriptor.....	68
6.2.37	Short event descriptor	69
6.2.38	Short smoothing buffer descriptor	69
6.2.39	Stream identifier descriptor.....	71
6.2.40	Stuffing descriptor	71
6.2.41	Subtitling descriptor.....	72
6.2.42	Telephone descriptor.....	72
6.2.43	Teletext descriptor	74
6.2.44	Time shifted event descriptor.....	75
6.2.45	Time shifted service descriptor.....	75
6.2.46	Transport stream descriptor	75
6.2.47	VBI data descriptor.....	76
6.2.48	VBI teletext descriptor.....	77
6.3	Extended descriptor identification and location	77
6.4	Extended descriptor coding	78
6.4.1	CP descriptor	78
6.4.2	CP identifier descriptor.....	78
6.4.3	Image Icon descriptor	79
7	Storage Media Interoperability (SMI) measures	81
7.1	SMI tables	81
7.1.1	Discontinuity Information Table (DIT)	82
7.1.2	Selection Information Table (SIT).....	83
7.2	SMI descriptors	84
7.2.1	Partial Transport Stream (TS) descriptor.....	84
Annex A (normative):	Coding of text characters	85
A.1	Control codes.....	85
A.2	Selection of character table	85
Annex B (normative):	CRC decoder model.....	98
Annex C (informative):	Conversion between time and date conventions	99
Annex D (informative):	Service information implementation of AC-3 and Enhanced AC-3 audio in DVB systems.....	101
D.1	AC-3 component types.....	101
D.2	AC-3 Descriptor	102
D.3	AC-3 Descriptor Syntax	102
D.3.1	Semantics for the AC-3 descriptor	102
D.4	Enhanced_AC-3 Descriptor	103

D.5	Enhanced_AC-3 Descriptor Syntax	103
D.5.1	Semantics for the Enhanced AC-3 descriptor.....	104
Annex E (normative):	Usage of the Scrambling_descriptor	106
Annex F (informative):	ISO 639 Language Descriptor for "original audio" Soundtrack	107
Annex G (informative):	Service information implementation of DTS coded audio in DVB systems	108
G.1	DTS Audio descriptor	108
G.2	DTS Descriptor Syntax	108
G.2.1	Semantics for the DTS descriptor.....	108
Annex H (informative):	Service information implementation of HE-AAC coded audio in DVB systems	111
H.1	AAC Audio descriptor.....	111
H.2	AAC_Descriptor Syntax.....	111
H.2.1	Semantics for the AAC descriptor.....	111
Annex I (normative):	Assignment and interpretation of the service_type field.....	113
I.1	Background	113
I.2	Assignment of service_type	113
I.2.1	service_type "digital television service" (0x01).....	113
I.2.2	service_type "advanced codec" (various).....	114
Annex J (informative):	Bibliography.....	115
History	116

iTeh STANDARD PREVIEW
 (standards.iteh.ai)
 Full standard:
<https://standards.iteh.ai/catalog/standards/sist/899804828-0628-4983-bd0e-59d50afc9016/etsi-en-300-468-v1.9.1-2009-03>

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://webapp.etsi.org/IPR/home.asp>).

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 (Telecommunications series) 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

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.

National transposition dates

Date of adoption of this EN:	5 March 2009
Date of latest announcement of this EN (doa):	30 June 2009
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 2009
Date of withdrawal of any conflicting National Standard (dow):	31 December 2009

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 TR 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 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.

- [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".
- [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".
- [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 (2003): "Information technology - Universal Multiple-Octet 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 (2005): "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.1196-1 (annex 2): "Audio coding for digital terrestrial television broadcasting".

NOTE: Annex 2 contains additional information on the AC-3 audio encoding algorithm and decoding requirements, relevant to the present document. Appendix 1 to annex 2 of this Recommendation should be disregarded as it is not applicable 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".
- [46] ETSI TS 102 825 (parts 1 to 5, 7, 9 and 10): "Digital Video Broadcasting (DVB); Content Protection and Copy Management (DVB-CPCM)".

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] ETSI TR 101 162: "Digital Video Broadcasting (DVB); Allocation of Service Information (SI) codes for DVB systems".
- [i.2] ETSI TR 101 211: "Digital Video Broadcasting (DVB); Guidelines on implementation and usage of Service Information (SI)".
- [i.3] ETSI TS 102 590: "Digital Video Broadcasting (DVB); Multimedia Home Platform 1.2".
- [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] ISO/IEC 8859-12 (possible future).

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 programmes to be delivered to the viewer 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, programmes and events

EXAMPLE: Videoguard, Eurocrypt.

delivery system: physical medium by which one or more multiplexes are transmitted

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

Entitlement Management Messages (EMM): private Conditional Access information which specify the authorization levels or the services of specific decoders

NOTE: They may be addressed to individual decoder or groups of decoders.

event: grouping of elementary broadcast data streams with a defined start and end time 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 shall never be used

MPEG-2: See ISO/IEC 13818.

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].

multiplex: stream of all the digital data carrying one or more services within a single physical channel

network: collection of MPEG-2 Transport Stream (TS) multiplexes transmitted on a single delivery system

EXAMPLE: All digital channels on a specific cable system.

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

original_network_id: unique identifier of a network

programme: concatenation of one or more events under the control of a broadcaster e.g. news show, entertainment show

repeater: equipment which receives and re-transmits a DVB-T signal

NOTE: It can not change the TPS bits and thus 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 is 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 EN 300 468 into ISO/IEC 13818-1 [18] TS packets

service: sequence of programmes under the control of a broadcaster which can be broadcast as part of a schedule

service_id: unique identifier of a service within a TS

Service Information (SI): digital data describing the delivery system, content and scheduling/timing of broadcast data streams, etc.

NOTE: It includes MPEG-2 PSI together with independently 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 allows to modulate a baseband transport stream and to broadcast it on one frequency

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: type of repeater which receives a DVB-T 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.

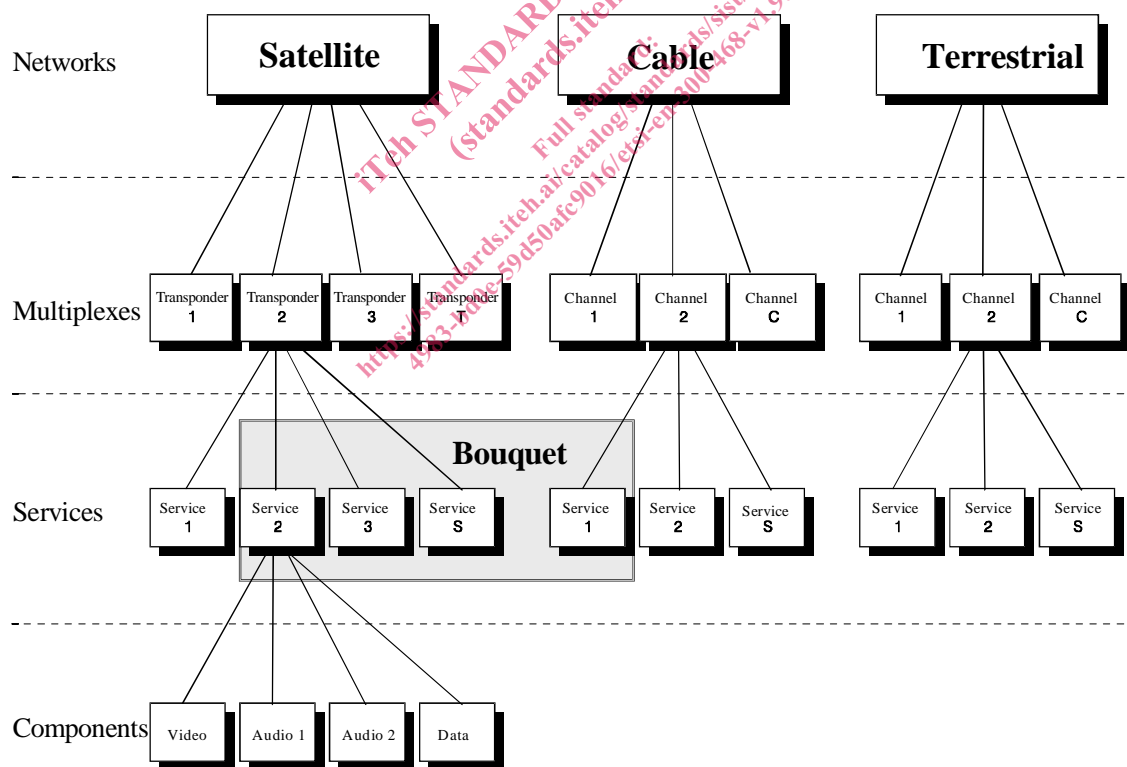


Figure 1: Digital broadcasting, service delivery model

3.2 Abbreviations

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

AAC	Advanced Audio Coding (see TS 101 154 [9])
AC-3	Dolby AC-3 audio coding (ITU-R Recommendation BS.1196-1 [43])
ASCII	American Standard Code for Information Interchange
BAT	Bouquet Association Table
BCD	Binary Coded Decimal
bslbf	bit string, left bit first
CA	Conditional Access
CAT	Conditional Access Table
CLUT	Colour Look-Up Table
CRC	Cyclic Redundancy Check
CSA	Common Scrambling Algorithm
DAB	Digital Audio Broadcasting
DIT	Discontinuity Information Table
DSNG	Digital Satellite News Gathering
DTS	Digital Theater Systems (see TS 102 114 [12])
DVB	Digital Video Broadcasting
DVD	Digital Versatile Disc
EBU	European Broadcasting Union
ECM	Entitlement Control Message
EIT	Event Information Table
EMM	Entitlement Management Message
EPG	Electronic Programme Guide
ES	Elementary Stream
FEC	Forward Error Correction
HD	High Definition (Video)
HE-AAC	High Efficiency AAC
HP	High Priority
IEC	International Electrotechnical Commission
INT	IP Notification Table (see EN 301 192 [4])
IP	Internet Protocol
IRD	Integrated Receiver Decoder
ISO	International Organization for Standardization
LP	Low Priority
LSB	Least Significant Bit
MJD	Modified Julian Date
MPE	Multiprotocol Encapsulation
MPEG	Moving Pictures Expert Group
MSB	Most Significant Bit
NBC-BS	Non Backwards Compatible Broadcast Services (DVB-S2)
NDA	Non Disclosure Agreement
NIT	Network Information Table
NVOD	Near Video On Demand
OFDM	Orthogonal Frequency Division Multiplex
PAT	Program Association Table
PCM	Pulse-code modulation
PDC	Programme Delivery Control
PID	Packet IDentifier
PIL	Programme Identification Label
PMT	Program Map Table
PSI	Program Specific Information
PSTN	Public Switched Telephone Network
QAM	Quadrature Amplitude Modulation
QPSK	Quaternary Phase Shift Keying
RAR	Resolution Authority Record
RDS	Radio Data System
RNT	RAR Notification Table
rphof	remainder polynomial coefficients, highest order first