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Digital Video Broadcasting (DVB); Allocation of identifiers and codes for Digital Video Broadcasting (DVB) systems



#### Reference

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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.

## 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 <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

## 1 Scope

The present document defines codes, and identifiers (also referred to as code points) used in DVB systems. These codes are allocated by the DVB Project Office at the request of potential service providers and once allocated, become part of ETSI EN 300 468 [i.1] by reference. Further details can be obtained by contacting DVB Services Sàrl.

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## 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 not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1]	ETSI EN 300 468: "Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB systems".
[i.2]	ETSI TS 101 211: "Digital Video Broadcasting (DVB); Guidelines on implementation and usage of Service Information (SI)".
[i.3]	ETSI EN 301 192: "Digital Video Broadcasting (DVB); DVB specification for data broadcasting".
[i.4]	ETSI TR 101 202: "Digital Video Broadcasting (DVB); Implementation guidelines for Data Broadcasting".
[i.5]	ETSI TS 101 812: "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.0.3".
[i.6]	ETSI TS 102 727: "Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.2.2".

[i.7]	ISO 3166-1: "Codes for the representation of names of countries and their subdivisions - Part 1: Country codes".
[i.8]	ETSI TS 102 606-1: "Digital Video Broadcasting (DVB); Generic Stream Encapsulation (GSE); Part1: Protocol".
[i.9]	ETSI TS 102 606-2: "Digital Video Broadcasting (DVB); Generic Stream Encapsulation (GSE); Part2: Logical Link Control (LLC)".
[i.10]	CENELEC EN 50221: "Common Interface Specification for Conditional Access and other Digital Video Broadcasting Decoder Applications".
[i.11]	ETSITS 102 323: "Digital Video Broadcasting (DVB); Carriage and signalling of TV-Anytime information in DVB transport streams".
[i.12]	ETSI TS 102 034: "Digital Video Broadcasting (DVB); Transport of MPEG-2 TS Based DVB Services over IP Based Networks".
[i.13]	ETSI TS 102 006: "Digital Video Broadcasting (DVB); Specification for System Software Update in DVB Systems".
[i.14]	ETSI TS 102 771: "Digital Video Broadcasting (DVB); Generic Stream Encapsulation (GSE) implementation guidelines".
[i.15]	ETSI TS 102 539: "Digital Video Broadcasting (DVB); Carriage of Broadband Content Guide (BCG) information over Internet Protocol (IP)".
[i.16]	ETSI TS 102 824: "Digital Video Broadcasting (DVB); Remote Management and Firmware Update System for DVB IPTV Services (Phase 2)".
[i.17]	ETSI TS 102 832: "Digital Video Broadcasting (DVB); IP Datacast over DVB-H: Notification Framework".
[i.18]	ETSI TS 102 611-1: "Digital Video Broadcasting (DVB); IP Datacast: Implementation Guidelines for Mobility; Part 1: IP Datacast over DVB-H".
[i.19]	ETSI TS 102 474: "Digital Video Broadcasting (DVB); IP Datacast over DVB-H: Service Purchase and Protection".
[i.20]	CableLabs <sup>®</sup> : "OpenCable™ Application Platform Specifications; OpenCable Application Platform (OCAP)".
NOTE:	Available at https://specification-search.cablelabs.com/opencable-application-platform-ocap.
[i.21]	Open IPTV Forum: "OIPF Release 2 Specification Volume 3 - Content Metadata".
NOTE:	Available at <a href="http://www.oipf.tv/web-spec/volume3.html">http://www.oipf.tv/web-spec/volume3.html</a> .
[i.22]	Open IPTV Forum: "OIPF Release 2 Specification Volume 5 - Declarative Application Environment".
NOTE:	Available at <a href="http://www.oipf.tv/web-spec/volume5.html">http://www.oipf.tv/web-spec/volume5.html</a> .
[i.23]	Open IPTV Forum: "OIPF Release 2 Specification Volume 6 - Procedural Application Environment".
NOTE:	Available at <a href="http://www.oipf.tv/web-spec/volume6.html">http://www.oipf.tv/web-spec/volume6.html</a> .
[i.24]	ETSITS 102 809: "Digital Video Broadcasting (DVB); Signalling and carriage of interactive applications and services in Hybrid broadcast/broadband environments".
[i.25]	ETSI ES 202 184: "MHEG-5 Broadcast Profile".
[i.26]	ETSI TS 102 728: "Digital Video Broadcasting (DVB); Globally Executable MHP (GEM) Specification 1.3 (including OTT and hybrid broadcast/broadband)".

[i.27]	ETSI TS 102 471: "Digital Video Broadcasting (DVB); IP Datacast over DVB-H: Electronic Service Guide (ESG)".
[i.28]	ISO/IEC 13818-1: "Information technology - Generic coding of moving pictures and associated audio information: Systems".
[i.29]	ETSITS 102 823: "Digital Video Broadcasting (DVB); Specification for the carriage of synchronized auxiliary data in DVB transport streams".
[i.30]	ETSITS 101 699: "Digital Video Broadcasting (DVB); Extensions to the Common Interface Specification".
[i.31]	ETSITS 102 825 (all parts): "Digital Video Broadcasting (DVB); Content Protection and Copy Management (DVB-CPCM)".
[i.32]	ETSI TS 102 770: "Digital Video Broadcasting (DVB); System Renewability Messages (SRM) in DVB Systems".
[i.33]	ETSI EN 302 307 (all parts): "Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications".
[i.34]	ETSI EN 300 744: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for digital terrestrial television".
[i.35]	ETSI EN 300 743: "Digital Video Broadcasting (DVB); Subtitling systems".
[i.36]	CI Plus LLP: "CI Plus Specification. Content Security Extensions to the Common Interface".
NOTE:	Available at <a href="http://www.ci-plus.com/documentation/#specification">http://www.ci-plus.com/documentation/#specification</a> .
[i.37]	ETSI TS 103 205: "Digital Video Broadcasting (DVB); Extensions to the CI Plus <sup>TM</sup> Specification".
[i.38]	CI Plus LLP: "CI Plus Specification. Content Security Extensions to the Common Interface v1.3.2".
NOTE:	Available at <a href="http://www.ci-plus.com/wp-content/uploads/2019/02/ci-plus specification v1.3.2.pdf">http://www.ci-plus.com/wp-content/uploads/2019/02/ci-plus specification v1.3.2.pdf</a> .
[i.39]	CI Plus LLP: "CI Plus Specification. Content Security Extensions to the Common Interface v1.4.3".
NOTE:	Available at <a href="http://www.ci-plus.com/wp-content/uploads/2018/11/ci-plus specification v1.4.3.pdf">http://www.ci-plus.com/wp-content/uploads/2018/11/ci-plus specification v1.4.3.pdf</a> .
[i.40]	ETSITS 103 615: "Digital Video Broadcasting (DVB); Metadata generation and deterministic DVB-T-mega-frame/DVB-T2-MI stream generation from MPEG-2 Transport Stream(s) for a DVB Single Illumination System (DVB-SIS)".
[i.41]	DVB BlueBook A177: "Digital Video Broadcasting (DVB); Service Discovery and Programme Metadata for DVB-I Services".

# 3 Definition of terms, symbols and abbreviations

## 3.1 Terms

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

applicant: organization which applies for an identifier under the regime of the present document

application domain: identifier namespace constituted by a specification other than the present document

**registrar:** organization who keeps a public register of DVB-SI identifiers and assigns new values to Applicants under the regime of the present document

NOTE: By default, the DVB Project Office is the only registrar for DVB-SI identifiers. The Project Office may however pass this task on to one or more third parties.

registration domain: identifier namespace constituted by the present document

## 3.2 Symbols

Void.

#### 3.3 Abbreviations

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

ACME Acme Corporation, a fictional company used in examples

NOTE: See <a href="https://warnerbros.fandom.com/wiki/ACME\_Corporation.">https://warnerbros.fandom.com/wiki/ACME\_Corporation.</a>

AIT Application Information Table
ATM Asynchronous Transfer Mode
BCG Broadband Content Guide

NOTE: See ETSI TS 102 539 [i.15].

CA Conditional Access CC Content Control

CDS Content Download Service

NOTE: See ETSI TS 102 539 [i.15].

CI Common Interface CoD Content on Demand

NOTE: See ETSI TS 102 034 [i.12].

CP Copy Protection

CPCM Content Protection Copy Management

NOTE: See ETSI TS 102 825 [i.31].

CPS Content Protection System
DVB Digital Video Broadcasting
DVB-CI DVB Common Interface

NOTE: See CELENEC EN 50221 [i.10].

DVB-I DVB services delivered to Internet connected devices.

DVB-J DVB-Java

NOTE: See ETSI TS 101 812 [i.5] and ETSI TS 102 727 [i.6].

DVB-S DVB Satellite modulation

DVB-S2 Second generation DVB satellite modulation

NOTE: See ETSI EN 302 307 [i.33].

DVB-SI DVB Service Information

NOTE: See ETSI EN 300 468 [i.1].

DVBSTP DVB SD&S Transport Protocol

NOTE: See ETSI TS 102 539 [i.15].

DVB-T DVB terrestrial modulation

NOTE: See ETSI EN 300 744 [i.34].

ESG Electronic Service Guide

NOTE: See ETSI TS 102 471 [i.27].

FUS Firmware Update Service

NOTE: See ETSI TS 102 824 [i.16].

GEM Globally Executable MHP
GSE Generic Stream Encapsulation
HTTP HyperText Transfer Protocol

ID IDentity

IP Internet Protocol IPDC IP DataCast

IPTV Internet Protocol TV
LLC Logical Link Control
MAC Medium Access Control

MHEG Multimedia and Hypermedia Experts Group

NOTE: See ETSI ES 202 184 [i.25].

MHP Multimedia Home Platform

MMDS Multichannel Multipoint Distribution Service

MPEG Motion Picture Expert Group

NOTE: See ETSI EN 300 468 [i.1].

MRS Material Resolution Server NIT Network Information Table

NOTE: See ETSI EN 300 468 [i.1].

OCAP<sup>TM</sup> OpenCable<sup>TM</sup> Application Platform Specification

NOTE: See OC-SP-OCAP1.1.3-100603 [i.20].

OMA Open Mobile Alliance<sup>TM</sup>

NOTE: See <a href="http://openmobilealliance.org">http://openmobilealliance.org</a>.

OSDT On-Line Service Description Table

PKI Public-Key Infrastructure SD&S Service Discovery and Selection

NOTE: See ETSI TS 102 034 [i.12].

SDT Service Description Table
SI Service Information

SPP Service Purchase and Protection

NOTE: See ETSI TS 102 474 [i.19].

SRM System Renewability Messages

NOTE: See ETSI TS 102 770 [i.32].

TS Transport Stream

NOTE: See ETSI EN 300 468 [i.1].

UK DTG United Kingdom Digital TV Group

NOTE: See <a href="http://dtg.org.uk">http://dtg.org.uk</a>.

URI Uniform Resource Identifer XML Extensible Markup Language

## 4 Principles of registration

## 4.0 Requirements and process of registration

The present document defines the allocation of identifiers pertaining to different DVB specifications (e.g. MHP, SI, Data Broadcasting, etc.). It does not describe the detail or the template as to how this should be done. The aim of the present document is to provide assistance to those soliciting and allocating identifiers.

Each identifier has the following attributes:

- 1) It **is defined** in a DVB specification (e.g. DVB Service Information (ETSI EN 300 468 [i.1])).
- 2) It is either:
  - a) **a binary number** represented by either its hexadecimal equivalent denoted by the prefix "0x", or its decimal equivalent;
  - b) a string constant represented by its Unicode equivalent; or
  - c) a combination of a binary number and a string constant.
- 3) It has a text description. It is the table of values and descriptions which is published on <a href="www.dvb.org">www.dvb.org</a>.
- 4) It **is allocated to an organization** operating in the digital television space (e.g. ACME Digital Broadcasting, Inc.), or a grouping of such companies (e.g. an ACME Association of Cable/MMDS Enterprises) or an institution acting in digital television, e.g. IEEE (Institute of Electrical and Electronic Engineers).
- 5) It **may be allocated for a given region.** For terrestrial broadcasting, this is typically a sovereign country; for satellite operations, this is typically a geographical region spanning many countries, but consistent with the footprint of the satellites owned by the operators.

The present document describes where to find definitions of each identifier, who to refer to when there are questions, templates for the allocations and rules governing them. In addition, and where appropriate, there are descriptions of best practice and some historical notes.

The DVB Project Office shall be the only Registrar entitled to accept applications and perform registrations under the regime of the present document, and within the application areas of the specifications listed in clause 2. The DVB Project Office shall maintain a public, on-line register of assigned identifiers to ease quick look-up of the current assignments.

NOTE: For practical reasons, the DVB Project Office may choose to delegate the operation and maintenance of the public, on-line register and the authority of receiving applications and performing registrations to one or more third parties.

## 4.1 Registration domain and application domains

The scope of the present document shall constitute a registration domain namespace. Referred to as the registration domain for short. All identifiers defined in the present document are assigned a name in the registration domain.

Other specification documents - as referenced by the present document - constitute their own application domain namespaces. Each of them referred to as an application domain for short. Different names may be used for referring to the identifiers defined in the present document, in these application domains.

For each of the identifiers defined in the present document, a clause is provided, which lists the registration domain name, and application domain names used to refer to the respective identifier. This means that all the names listed for each identifier, refer to one and the same identifier. Consequently, all provisions made in the present document for the respective identifier, shall also apply to the application domains listed.

# 5 Service Information (DVB-SI) identifiers

## 5.0 Scope

Clause 5 covers the identifiers defined in ETSI EN 300 468 [i.1].

## 5.1 Bouquet\_ID

#### 5.1.0 Bouquet\_ID registration principles

Bouquet\_ID values shall be allocated to broadcasters and network operators to identify bouquets within the application area of ETSI EN 300 468 [i.1], by insertion in the bouquet\_id field.

#### 5.1.1 Bouquet\_ID registration template

To register a Bouquet\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 1: Bouquet\_ID registration template

Registration field	Required	Description
Bouquet Name	required	Name of the Bouquet (e.g. "ACME Pay-TV Service")
Bouquet Country Code	required	Country code where the bouquet is unique (e.g. North America)
Bouquet Operator	required	Name of organization which operates Bouquet (e.g. "ACME Pay-TV, Inc.")
Bouquet Legal Contact	required	Name and e-mail of authorized legal signatory of "Bouquet Operator"
Bouquet Technical Contact	required	Name and e-mail of technical contact of "Bouquet Operator"
Bouquet Notes	optional	Notes on the application, e.g. last revised and what revisions were made

## 5.1.2 Bouquet\_ID allocation template

The scheme and values given in table 2 shall be used for the allocation of Bouquet\_ID values.

Table 2: Bouquet\_id allocation template

Bouquet_ID	Description	
0x0000	eserved	
0x0001 to 0xFFFF	Reserved for general registration through the DVB Project Office (see	
	http://www.dvbservices.com)	

## 5.1.3 Bouquet\_ID domain names

Table 3 lists the names, under which the bouquet\_id is used in different DVB specifications.

Table 3: Bouquet\_ID domain names

Name	Domain	Description
Bouquet_ID	Registration Domain	Constituted by the present document
bouquet_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]
bouquet_id	DVB-DATA	ETSI EN 301 192 [i.3]
		ETSI TR 101 202 [i.4]
bouquet_id	DVB-TVA	ETSI TS 102 323 [i.11]
bouquetId	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

## 5.2 CA\_System\_ID

## 5.2.0 CA\_System\_ID registration principles

CA\_System\_ID values shall be allocated to Conditional Access system vendors to identify CA systems within the application area of ETSI EN 300 468 [i.1], by insertion in the CA\_system\_id field.

#### 5.2.1 CA\_System\_ID registration template

To register a CA\_System\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 4: CA\_System\_ID registration template

Registration field	Required	Description
CA System Name	required	Name of the organization supplying Conditional Access services
		(e.g. "ACME CA Services, Inc.")
CA System Legal Contact	required	Name and e-mail of authorized legal signatory of "CA System Name"
CA System Technical Contact	required	Name and e-mail of technical contact of "CA System Name"
CA System Notes	optional	Notes on the application, e.g. last revised and what revisions were made

### 5.2.2 CA\_System\_ID allocation template

The scheme and values given in table 5 shall be used for the allocation of CA\_System\_ID values.

Table 5: CA\_System\_ID allocation template

CA_System_ID	CA system specifier		
0x0000	Reserved		
0x0001 to 0x00FF	Reserved for registration to standardized systems through the DVB Project Office (see		
	http://www.dvbservices.com)		
0x0100 to 0xFFFF	Reserved for general registration through the DVB Project Office (see		
	http://www.dvbservices.com)		

In the standardized systems registration range, allocations shall only be made for Conditional Access systems which are defined and/or adopted as such by DVB, and which are fully described in a publicly available document from a recognized standardization body.

In the general registration range, allocations shall only be made to bona fide Conditional Access system vendors. Applicants need to demonstrate that the vendor is proposing a registration for a legitimate Conditional Access product.

## 5.2.3 CA\_System\_ID domain names

Table 6 lists the names, under which the CA\_System\_ID is used in different DVB specifications.

Table 6: CA\_System\_ID domain names

Name	Domain	Description
CA_System_ID	Registration Domain	Constituted by the present document
CA_system_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]
CA_system_id	DVB-DATA	ETSI EN 301 192 [i.3]
		ETSI TR 101 202 [i.4]
CA_system_id	DVB-TVA	ETSI TS 102 323 [i.11]
CASystemId	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

## 5.3 CP\_System\_ID

#### 5.3.0 CP\_System\_ID registration principles

CP\_System\_ID values shall be allocated to identify Copy Protection (CP) systems to which DVB-CPCM content will be exported within the application area of ETSI EN 300 468 [i.1], by insertion in the field CP\_system\_id.

#### 5.3.1 CP\_System\_ID registration template

To register a CP\_System\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 7: CP\_System\_ID registration template

Registration field	Required	Description
CP System Description	required	Name of a Content Protection System (e.g. "ACME Content Safe 1.0")
CP System Specifier	required	Name of the organization supplying the CPS (e.g. "ACME CPS
		Consortium")
CP System Legal Contact	required	Name and e-mail of authorized legal signatory of "CP System Specifier"
CP System Technical Contact	required	Name and e-mail of technical contact of "CP System Specifier"
CP System Notes	optional	Notes on the application, e.g. last revised and what revisions were
		made

#### 5.3.2 CP\_System\_ID allocation template

The scheme and values given in table 8 shall be used for the allocation of CP\_System\_ID values.

Table 8: CP\_System\_ID allocation template

С	P_System_ID	CP system specifier		
0x0	0000 to 0x00FF	Reserved for registration to systems defined by DVB		
	0x0000	DVB CPCM Content Licence		
	0x0001	DVB CPCM Auxiliary Data		
	0x0002	DVB CPCM Revocation List		
0x0	0100 to 0xFFFF	Reserved for general registration through the DVB Project Office (see		
		http://www.dvbservices.com)		

In the general registration range, allocations shall only be made to bona fide Copy Protection system vendors. Applicants need to demonstrate that the vendor is proposing a registration for a legitimate Copy Protection product.

## 5.3.3 CP\_System\_ID domain names

Table 9 lists the names, under which the CP\_System\_ID is used in different DVB specifications.

Table 9: CP\_system\_id domain names

Name	Domain	Description
CP_System_ID	Registration Domain	Constituted by the present document
CP_system_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]

## 5.4 Country Code

#### 5.4.0 Country Code registration principles

Country Code values shall be allocated to geographical areas to identify groups of countries or parts of countries within the application area of ETSI EN 300 468 [i.1]. These are supplementary to ISO 3166-1 [i.7]. This identifier helps in defining geographical coverage of other identifiers.

#### 5.4.1 Country Code registration template

To register a Country Code, applicants shall supply at least the information labelled as "required" in the registration template below.

**Table 10: Country Code registration template** 

Registration field	Required	Description
Geographical Area Name	required	Name of the geographical area (e.g. "North America")
Geographical Area Legal Contact	required	Name and e-mail of authorized legal signatory of "Geographical Area Name"
Geographical Area Technical Contact	required	Name and e-mail of technical contact of "Geographical Area Name"
Geographical Area Notes	optional	Notes on the application, e.g. last revised and what revisions were made

#### 5.4.2 Country Code allocation template

The scheme and values given in table 11 shall be used for the allocation of Country Code values.

**Table 11: Country Code allocation template** 

Country Code	Grouping		
000 to 899	Reserved for ISO 3166-1 [i.7] use		
900 to 999	Reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )		

Since geographical areas are to be represented by this identifier, allocations of Country Code values shall only be made to bona fide organizations. Applicants need to demonstrate that they represent the geographical area in question in an appropriate way. Preferred Applicants for Country Code values are hence organizations known to be in agreement with the legal and regulatory authorities, and other determining organizations active in, or substantially affected by, the area for which a Country Code value is to be registered.

## 5.4.3 Country Code domain names

Table 12 lists the names, under which the Country Code is used in different DVB specifications.

**Table 12: Country Code domain names** 

Name	Domain	Description
Country Code	Registration Domain	Constituted by the present document
country_code	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]

## 5.5 Encoding\_Type\_ID

#### 5.5.0 Encoding\_Type\_ID registration principles

Encoding\_Type\_ID values shall be allocated to broadcasters, network operators and content producers to identify string encodings within the application area of ETSI EN 300 468 [i.1], by insertion in the field encoding\_type\_id in the second byte of the string.

#### 5.5.1 Encoding\_Type\_ID registration template

To register an Encoding\_Type\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 13: Encoding\_Type\_ID registration template

Registration field	Required	Description
Encoding Type Description	required	Name of a character encoding type (e.g. "ACME Universal Character Set 3")
Encoding Type Specifier	required	Name of the organization which is responsible for the character set described above (e.g. "ACME Fonts, Inc.")
Encoding Type Legal Contact	required	Name and e-mail of authorized legal signatory of "Encoding Type ID"
Encoding Type Technical Contact	required	Name and e-mail of technical contact of "Encoding Type ID"
Encoding Type Notes	optional	Notes on the application, e.g. last revised and what revisions were made

## 5.5.2 Encoding\_Type\_ID allocation template

The scheme and values given in table 14 shall be used for the allocation of Encoding\_Type\_ID values.

Table 14: Encoding\_Type\_ID allocation template

Encoding_Type_ID	Encoding type ID
0x00	Reserved
	Reserved for general registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0xF0 to 0xFF	Reserved for future use

## 5.5.3 Encoding\_Type\_ID domain names

Table 15 lists the names, under which the Encoding\_Type\_ID is used in different DVB specifications.

Table 15: Encoding\_type\_id domain names

Name	Domain	Description
Encoding_Type_ID	Registration Domain	Constituted by the present document
encoding_type_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]

## 5.6 Network\_ID

## 5.6.0 Network\_ID registration principles

Network\_ID values shall be allocated to broadcasters and network operators to identify networks within the application area of ETSI EN 300 468 [i.1], by insertion in the network\_id field.

A network is defined as a collection of MPEG 2 Transport Stream (TS) multiplexes transmitted on a single delivery system, e.g. all digital channels on a specific cable system. Network\_IDs are unique within the geographical region defined by the Country Code:

- For satellite networks, this is a region spanning many countries.
- For a cable network, this is a single country.
- For terrestrial networks, this is a single country also, but it is important that two adjacent countries shall not have the same block of Network IDs. Hence the concept of colour coding countries was introduced.

#### 5.6.1 Network\_ID registration template

To register a Network\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Registration field	Required	Description	
Network Type	required	Satellite, terrestrial or cable	
Network Name	required	Name of the Network (e.g. "ACME Cable")	
Network Country Code	required	Country code where the network is unique (e.g. North America)	
Network Operator	required	Name of organization which operates the network (e.g. "ACME Pay-TV, Inc.")	
Network Legal Contact	required	Name and e-mail of authorized legal signatory of "Network Operator"	
Network Technical Contact	required	Name and e-mail of technical contact of "Network Operator"	
Network Notes	optional	Notes on the application, e.g. last revised and what revisions were made	

Table 16: Network\_ID registration template

The rules for the allocation of Network IDs are as follows:

- 1) Network\_ID s will be allocated on a geographical basis such that no conflict of network ids occurs in any geographical region. (Satellite network ids will be unique world-wide).
- 2) Network\_IDs are a scarce resource and their allocation is under responsibility of DVB. Application of multiple Network\_IDs is subject to exhaustive verification and is discouraged.
- 256 Network\_ID values are reserved for private/temporary use. Their allocation is not subject of the present document.
- 4) Network\_IDs will be allocated according to clause 5.6.2.
- 5) Network\_IDs for the terrestrial delivery medium will be made available to the appropriate national telecommunications regulator and their allocation in each country is under responsibility of this regulator.
- 6) In order to avoid the uneconomical use of Network\_IDs, the values will be given in blocks of 256 values on a country by country basis. Non-allocated Network\_IDs will be kept reserved.
- 7) The allocation of terrestrial network ids shall be based on a 4-colour-map approach. Two blocks of 256 values are reserved for the eventual case of collision.
- 8) If 256 values are not sufficient for a country, a new block of 256 colours will be allocated. This block can be used by all countries with the same colour in the colour map.

NOTE: Due to the re-usable allocation of all types of Network\_ID values (satellite, cable and terrestrial), no link between Network\_ID and Original\_Network\_ID exists.

#### 5.6.2 Network ID allocation template

The scheme and values given in table 17 shall be used for the allocation of Network\_ID values.

Table 17: Network\_ID allocation template

Network_ID	Classification	Network Type	Country code(s) of validity	Description
0x0000	Reserved	all	all	Reserved
0x0001 to 0x2000	Unique satellite	Satellite	all	4 096 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0x2001 to 0x3000	Unique terrestrial	Terrestrial	all	4 096 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0x3001 to 0x3600	Re-useable terrestrial	Terrestrial	as registered	1 536 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0x3001 to 0x3100	Countries of colour A	Terrestrial	as registered	256 values
0x3101 to 0x3200	Countries of colour B	Terrestrial	as registered	256 values
0x3201 to 0x3300	Countries of colour C	Terrestrial	as registered	256 values
0x3301 to 0x3400	Countries of colour D	Terrestrial	as registered	256 values
0x3401 to 0x3500	Countries of colour E	Terrestrial	as registered	256 values (to be used only in case of collision)
0x3501 to 0x3600	Countries of colour F	Terrestrial	as registered	256 values (to be used only in case of collision)
0x3601 to 0xA000	Reserved for future use	Terrestrial	to be defined	27 136 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0xA001 to 0xB000	Re-useable cable	Cable	as registered	4 096 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0xB001 to 0xF000	Reserved for future use	Cable	to be defined	16 384 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0xF001 to 0xFF00	Unique cable	Cable	all	3 840 values reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
0xFEC0 to 0xFF00	Network Interface Modules	DVB Common Interface [i.10]	all	64 values for local use by DVB-CI modules
0xFF01 to 0xFFFF	Temporary private use	Not defined	all	255 values for temporary private use

## 5.6.3 Network\_ID domain names

Table 18 lists the names, under which the Network\_ID is used in different DVB specifications.

Table 18: Network\_ID domain names

Name	Domain	Description
Network_ID	Registration Domain	Constituted by the present document
network_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]
network_id	DVB-DATA	ETSI EN 301 192 [i.3]
		ETSI TR 101 202 [i.4]
		ETSI TS 102 006 [i.13]
network_id	DVB-TVA	ETSI TS 102 323 [i.11]
networkId	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

## 5.7 Original\_Network\_ID

#### 5.7.0 Original\_Network\_ID registration principles

Original\_Network\_ID values shall be allocated to broadcasters, network operators and content producers to uniquely identify networks within the application area of ETSI EN 300 468 [i.1], by insertion in the original\_network\_id field.

#### 5.7.1 Original\_Network\_ID registration template

To register an Original\_Network\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Registration field	Required	Description
Original Network Name	required	Name of the Network (e.g. "ACME TV")
Original Network Operator	required	Name of organization which operates network (e.g. "ACME
		Broadcast Corp.")
Original Network Legal Contact	required	Name and e-mail of authorized legal signatory of "Original Network
		Operator"
Original Network Technical Contact	required	Name and e-mail of technical contact of "Original Network
		Operator"
Original Network Notes	optional	Notes on the application, e.g. last revised and what revisions were
		made

Table 19: Original\_Network\_ID registration template

The rules for the allocation of Original\_Network\_IDs are as follows:

- 1) In principle only one Original\_Network\_ID should be assigned to each network operator, broadcaster or content producer.
- 2) Original\_Network\_IDs are a scarce resource and their allocation is under responsibility of DVB. Application of multiple Original\_Network\_IDs is subject to exhaustive verification and discouraged.
- 3) 256 Original\_Network\_ID values are reserved for private/temporary use. Their allocation is not subject of the present document.

Since terrestrial and cable networks have in most cases a clearly identified geographical region of validity, the re-usage of Network\_IDs is possible. However, Original\_Network\_IDs shall be unique independent of geographical region, since they are used to uniquely identify the transport streams and services.

In terrestrial networks, however it is recommended that all operators within a country use the same Original\_Network\_ID. This implies that broadcasters and operators within a country would need to coordinate the allocation of transport\_stream\_ids and service\_ids between them. The registrar is recommended to allocate Original\_Network\_ID values for terrestrial operators on the basis of Country Code + 0x2000. This will help receivers to discriminate broadcasts from multiple countries in cases where the target region descriptor is not used.

Some examples on the use of Network\_ID and Original\_Network\_ID are given in annex A.

## 5.7.2 Original\_Network\_ID allocation template

The scheme and values given in table 20 shall be used for the allocation of Original\_Network\_ID values.

Table 20: Original\_Network\_ID allocation template

Original_Network_ID	Description	
0x0000	Reserved	
0x0001 to 0xFEBF	Reserved for general registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )	
0xFEC0 to 0xFF00	DVB Common Interface Modules [i.10]	
0xFF00 to 0xFFFF	Private temporary use	

#### 5.7.3 Original\_Network\_ID domain names

Table 21 lists the names, under which the Original\_Network\_ID is used in different DVB specifications.

Table 21: Original\_Network\_ID domain names

Name	Domain	Description
Original_Network_ID	Registration Domain	Constituted by the present document
original_network_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]
original_network_id	DVB-DATA	ETSI EN 301 192 [i.3]
		ETSI TR 101 202 [i.4]
		ETSI TS 102 006 [i.13]
original_network_id	DVB-TVA	ETSI TS 102 323 [i.11]
originalNetworkId	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

## 5.8 Private\_Data\_Specifier\_ID

## 5.8.0 Private\_Data\_Specifier\_ID registration principles

Private\_Data\_Specifier\_ID values shall be allocated to broadcasters, manufacturers and network operators and content producers to identify private SI elements within the application area of ETSI EN 300 468 [i.1], by insertion in the private\_data\_specifier field.

#### 5.8.1 Private Data Specifier ID registration template

To register a Private\_Data\_Specifier\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 22: Private Data Specifier ID registration template

Registration field	Required	Description
Private Data Specifier Organization	required	Name of the organization or organization which is responsible for
		the private codes (e.g. "ACME, Inc.")
Private Data Specifier Legal Contact	required	Name and e-mail of authorized legal signatory of "Private Data
		Specifier Organization"
Private Data Specifier Contact	required	Name and e-mail of technical contact of "Private Data Specifier
		Organization"
Private Data Specifier Notes	optional	Notes on the application, e.g. last revised and what revisions were
		made

Since the Private\_Data\_Specifier\_ID plays important roles in national broadcast regulations and service aggregation, being able correctly identify the origins of the private data is important. Hence, Private\_Data\_Specifier\_ID values shall only be allocated to bona fide organizations for which there is a legal signatory.

## 5.8.2 Private\_Data\_Specifier\_ID allocation template

The scheme and values given in table 23 shall be used for the allocation of Private\_Data\_Specifier\_ID values.

Table 23: Private\_Data\_Specifier\_ID allocation template

Private_Data_Specifier_ID	Description	
0x00000000	Reserved	
	Reserved for general registration through the DVB Project Office (see	
	http://www.dvbservices.com)	

#### 5.8.3 Private\_Data\_Specifier\_ID domain names

Table 24 lists the names, under which the Private\_Data\_Specifier\_ID is used in different DVB specifications.

Table 24: Private\_data\_specifier domain names

Name	Domain	Description
Private_Data_Specifier_ID	Registration Domain	Constituted by the present document
private_data_specifier	DVB-SI	ETSI EN 300 468 [i.1] ETSI TS 101 211 [i.2]
private_data_specifier	DVB-DATA	ETSI EN 301 192 [i.3] ETSI TR 101 202 [i.4] ETSI TS 102 006 [i.13]
private_data_specifier	DVB-MHP	ETSI TS 101 812 [i.5] ETSI TS 102 727 [i.6] ETSI TS 102 809 [i.24] ETSI TS 102 728 [i.26]

## 5.9 URI\_Linkage\_Type

#### 5.9.1 Introduction

To assist receivers in identifying resources obtainable via an IP network, an appropriate value of the URI\_Linkage\_Type is conveyed along with a URI.

## 5.9.2 URI\_Linkage\_Type registration template

To register a URI\_Linkage\_Type, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 25: URI\_Linkage\_Type registration template

Registration field	Required	Description
URI Linkage Specification Name	required	Name of an Application System Specification (e.g. "Hybrid Internet TV")
URI Linkage Specifier	required	Name of the organization specifying the "URI Linkage Specification Name" mentioned above (e.g. "Hybrid TV Forum")
URI Linkage Legal Contact	required	Name and e-mail of authorized legal signatory of "URI Linkage Specifier"
URI Linkage Technical Contact	required	Name and e-mail of technical contact of "URI Linkage Specifier"
URI Linkage Notes	optional	Notes on the application, e.g. last revised and what revisions were made

## 5.9.3 URI\_Linkage\_Type allocation template

The scheme and values given in table 26 shall be used for the allocation of URI\_Linkage\_Type values.

Table 26: URI\_Linkage\_Type allocation template

URI_Linkage_Type	URI linkage specification	
0x00 to 0x5F	Reserved for registration to DVB specifications	
0x00	Online SDT (OSDT) for CI Plus [i.9]	
0x01	DVB-IPTV SD&S [i.12]	
0x02	Material Resolution Server (MRS) for companion screen applications [i.10]	
0x03	DVB-I [i.41]	
0x60 to 0x7F Reserved for registration to standardized systems through the DVB Project Office		
	http://www.dvbservices.com)	
0x80 to 0xFF	User defined	

In the standardized systems registration range, allocations shall only be made for standardized systems which are fully described in a publicly available document from a standardization body recognized by DVB. Separate allocations for different versions of the same standardized system specification shall only be made if and when a receiver would otherwise not be able to detect the version used from the contents of the standardized system streams themselves. Standardized system specifiers should thus design their specifications such that receivers can detect the version used without the use of separate URI\_Linkage\_Type values.

#### 5.9.4 URI\_Linkage\_Type domain names

Table 27 lists the names, under which the URI\_Linkage\_Type is used in different DVB specifications.

Table 27: URI\_Linkage\_Type domain names

Name	Domain	Description
URI_Linkage_Type	Registration Domain	Constituted by the present document
uri_linkage_type	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]

# 6 Data Broadcast (DVB-DATA) identifiers

## 6.0 Scope

Clause 6 covers the identifiers defined in ETSI EN 301 192 [i.3].

#### 6.1 Data Broadcast ID

## 6.1.0 Data\_Broadcast\_ID registration principles

Data\_Broadcast\_ID values shall be allocated to broadcasters, Conditional Access vendors, middleware vendors and other standardization bodies to identify the types of Data Broadcast services within the application area of ETSI EN 300 468 [i.1], by insertion in the field data\_broadcast\_id.

## 6.1.1 Data\_Broadcast\_ID registration template

To register a Data\_Broadcast\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 28: Data\_Broadcast\_ID registration template

Registration field	Required	Description
Data Broadcast Specification Name	required	Name of a Data Broadcast Specification (e.g. "ACMEcast 1.0")
Data Broadcast Specifier	required	Name of the organization specifying the "Data Broadcast
		Specification Name" mentioned above (e.g. "ACMEcast, Inc.")
Data Broadcast Legal Contact	required	Name and e-mail of authorized legal signatory of "Data
_		Broadcast Specifier"
Data Broadcast Technical Contact	required	Name and e-mail of technical contact of "Data Broadcast
		Specifier"
Data Broadcast Notes	optional	Notes on the application, e.g. last revised and what revisions
		were made

## 6.1.2 Data\_Broadcast\_ID allocation template

The scheme and values given in table 29 shall be used for the allocation of Data\_Broadcast\_ID values.

Table 29: Data\_Broadcast\_ID allocation template

Data_Broadcast_ID	Data broadcast specification	
0x0000	Reserved for future use	
0x0001 to 0x007F	Reserved for registration to DVB data broadcasting - exclusive range (see note)	
0x0001	Data pipe	
0x0002	Asynchronous data stream	
0x0003	Synchronous data stream	
0x0004	Synchronized data stream	
0x0005	Multi-protocol encapsulation	
0x0006	Data Carousel	
0x0007	Object Carousel	
0x0008	DVB ATM streams	
0x0009	Higher Protocols based on asynchronous data streams	
0x000A	System Software Update service [i.13]	
0x000B	IP/MAC Notification service [i.3]	
0x000C	Synchronized Auxiliary Data [i.29]	
0x000D	Downloadable Font Info Table [i.35]	
0x000E	Single Illumination System metadata [i.40]	
0x0080 to 0x00EF	Reserved for registration to DVB data broadcasting - combined range (see note)	
0x00F0 to 0x00FF	Reserved for registration to MHP data broadcasting	
0x00F0	MHP Object Carousel	
0x00F1	MHP Multiprotocol Encapsulation	
0x00F2	MHP application presence	
0x0100 to 0xFFFE Reserved for general registration through the DVB Project Office (see		
	http://www.dvbservices.com)	
0xFFFF	Reserved for future use	
NOTE: See clauses	4.2.6.4 and 4.2.7.3 of ETSI TS 101 211 [i.2].	

In the general registration range separate allocations for different versions of the same data broadcast specification shall only be made if and when a receiver would otherwise not be able to detect the version used from the contents of the data broadcast streams themselves or from private data carried in DVB-SI descriptors bearing a data\_broadcast\_id field. Data broadcast specifiers should thus design their specifications such that receivers can detect the version used without the use of separate Data\_Broadcast\_ID values.

## 6.1.3 Data\_Broadcast\_ID domain names

Table 30 lists the names, under which the Data\_Broadcast\_ID is used in different DVB specifications.

Table 30: Data\_Broadcast\_ID domain names

Name	Domain	Description
Data_Broadcast_ID	Registration Domain	Constituted by the present document
data_broadcast_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]
data_broadcast_id	DVB-DATA	ETSI EN 301 192 [i.3]
		ETSI TR 101 202 [i.4]
		ETSI TS 102 006 [i.13]
data_broadcast_id	DVB-TVA	ETSI TS 102 323 [i.11]
data_broadcast_id	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

## 6.2 Platform\_ID

## 6.2.0 Platform\_ID registration principles

Platform\_ID values shall be allocated to network operators and IPDC platform operators to uniquely identify the IP/MAC platform in use which is defined in ETSI EN 301 192 [i.3], by insertion in the platform\_id field.

#### 6.2.1 Platform\_ID registration template

To register a Platform\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 31: Platform\_ID registration template

Registration field	Required	Description	
Platform Name	required	Name of the IP/MAC Platform (e.g. "ACME MobileTV").	
Platform Operator		Name of organization which operates IP/MAC Platform (e.g. "ACME Mobile	
		Com, Inc.")	
Platform Legal Contact	required	Name and e-mail of authorized legal signatory of "Platform Operator"	
Platform Technical Contact	required	Name and e-mail of technical contact of "Platform Operator"	
Platform Notes	optional	Notes on the application, e.g. last revised and what revisions were made	

#### 6.2.2 Platform\_ID allocation template

The scheme and values given in table 32 shall be used for the allocation of Platform\_ID values.

Table 32: Platform\_ID allocation template

Platform_ID	Description
0x000000	Reserved
0x000001 to 0xFFEFFF	Reserved for general registration through the DVB Project Office (see
	http://www.dvbservices.com).
	These platform_id values are globally unique.
0xFFF000 to	Managed by the network operator, and may be used for IP/MAC Platforms supporting
0xFFFFE	services only within a single DVB network. These platform_id values are unique within a
	network_id only.
0xFFFFF	Reserved

#### 6.2.3 Platform\_ID domain names

Table 33 lists the names, under which the Platform\_ID is used in different DVB specifications.

Table 33: Platform\_ID domain names

Name	Domain	Description
Platform_ID	Registration Domain	Constituted by the present document
platform_id	DVB-SI	ETSI EN 300 468 [i.1]
		ETSI TS 101 211 [i.2]
platform_id	DVB-DATA	ETSI EN 301 192 [i.3]
		ETSI TR 101 202 [i.4]
		ETSI TS 102 006 [i.13]
platform_id	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

# 7 Generic Stream Encapsulation (DVB-GSE) identifiers

## 7.0 Scope

Clause 7 covers the identifiers defined in ETSI TS 102 606-1 [i.8].

## 7.1 Protocol\_Type\_ID

#### 7.1.0 Introduction

The DVB-S2, -T2 and -C2 physical layers provide Generic Stream modes for conveying arbitrary, variable length payload frames. To identify the type of payload frames, a field in the header of these physical layers is used. For example, in the case of DVB-S2 and DVB-T2, the SYNC field is used. Further details about the fields used can be found in ETSI TS 102 606-1 [i.8].

## 7.1.1 Protocol\_Type\_ID registration template

To register a Protocol\_Type\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 34: Protocol\_Type\_ID registration template

Registration field	Required	Description
Protocol Type Name	required	Name of protocol specification (e.g. "ACME SkyDSL")
Protocol Type Specifier	required	Name of the organization or organization which is responsible for the protocol specification above (e.g. "ACME Sat Coms, Inc.")
Protocol Type Legal Contact	required	Name and e-mail of authorized legal signatory of "Protocol Type ID"
Protocol Type Technical Contact	required	Name and e-mail of technical contact of "Protocol Type ID"
Protocol Type Notes	optional	Notes on the application, e.g. last revised and what revisions were made

#### 7.1.2 Protocol\_Type\_ID allocation template

The scheme and values given in table 35 shall be used for the allocation of Protocol\_Type\_ID values.

Table 35: Protocol\_Type\_ID allocation template

Protocol_Type_ID	Description
0x00	Generic Stream Encapsulation [i.8] and [i.14]
0x01	Generic Stream Encapsulation with error detection adaptation layer [i.8] and [i.14] (see note)
0x02 to 0xB8	Reserved for registration to standardized protocols through the DVB Project Office (see
	http://www.dvbservices.com)
0xB9 to 0xFF	User private
NOTE: For details	of the error detection adaptation layer see the clauses specific to each physical layer in ETSI
TS 102 77	1 [i.14].

## 7.1.3 Protocol\_Type\_ID domain names

Table 36 lists the names, under which the Protocol\_Type\_ID is used in different DVB specifications.

Table 36: Protocol\_Type\_ID domain names

Name	Domain	Description
Protocol_Type_ID	Registration Domain	Constituted by the present document
protocol_type_id		ETSI TS 102 606-1 [i.8] ETSI TS 102 771 [i.14]

## 7.2 Application\_System\_ID

#### 7.2.0 Introduction

To assist receivers in optimizing service discovery, the GSE Logical Link Control [i.9] information can indicate the application system type used on top of IP by conveying an appropriate value of the Application\_System\_ID.

#### 7.2.1 Application\_System\_ID registration template

To register an Application\_System\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 37: Application\_System\_ID registration template

Registration field	Required	Description
Application System Specification	required	Name of an Application System Specification (e.g. "ACME
Name		Internet TV 1.0")
Application System Specifier	required	Name of the organization specifying the "Application System Specification Name" mentioned above (e.g. "ACMEcast, Inc.")
Application System Legal Contact	required	Name and e-mail of authorized legal signatory of "Application System Specifier"
Application System Technical Contact	required	Name and e-mail of technical contact of "Application System Specifier"
Application System Notes	optional	Notes on the application, e.g. last revised and what revisions were made

#### 7.2.2 Application\_System\_ID allocation template

The scheme and values given in table 38 shall be used for the allocation of Data\_Broadcast\_ID values.

Table 38: Application\_System\_ID allocation template

Application_System_ID	Data broadcast specification		
0x0000 to 0x001F	Reserved for registration to DVB specifications		
0x0020 to 0x7FFF	Reserved for registration to standardized systems through the DVB Project Office (see		
	http://www.dvbservices.com)		
0x8000 to 0xFFFF	Reserved for general registration through the DVB Project Office (see		
	http://www.dvbservices.com)		

In the standardized systems registration range, allocations shall only be made for application systems which are defined and/or adopted as such by DVB, and which are fully described in a publicly available document from a recognized standardization body.

In the general registration range, separate allocations for different versions of the same application system specification shall only be made if and when a receiver would otherwise not be able to detect the version used from the contents of the application system streams themselves, or from private data carried in GSE LLC descriptors bearing an application\_system\_id field. Application system specifiers should thus design their specifications such that receivers can detect the version used without the use of separate Application\_System\_ID values.

#### 7.2.3 Application\_System\_ID domain names

Table 39 lists the names, under which the Application\_System\_ID is used in different DVB specifications.

Table 39: Application\_System\_ID domain names

Name	Domain	Description
Application_System_ID	Registration Domain	Constituted by the present document
application_system_id	DVB-GSE	ETSI TS 102 606-2 [i.9]
		ETSI TS 102 771 [i.14]

# 8 Identifiers for Globally Executable MHP (GEM), Multimedia Home Platform (DVB-MHP), and other technologies

## 8.0 Scope

The Application Information Table (AIT) provides full information on the data broadcast, the required activation state of applications carried by it, etc. Although first used with MHP (ETSI TS 101 812 [i.5] and ETSI TS 102 727 [i.6]), the AIT is now used with other technologies including OCAP<sup>TM</sup> [i.20], MHEG-5 [i.25] and various specifications which use ETSI TS 102 809 [i.24], for example the Open IPTV Forum specifications [i.21], [i.22] and [i.23]. In many places in the present document, the identifiers retain MHP in the name to reflect their origins but this does not imply limitations on their use with other application types.

## 8.1 MHP\_AIT\_Descriptor

## 8.1.1 MHP\_AIT\_Descriptor registration template

To register an MHP\_AIT\_Descriptor, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 40: MHP\_AIT\_Descriptor registration template

Registration field	Required	Description
AIT Descriptor Specification	required	Name of an AIT Descriptor Specification (e.g. "ACME InteractiveApps
Name		1.0")
AIT Descriptor Specifier	required	Name of the organization specifying the "AIT Descriptor Specification Name" mentioned above (e.g. "ACME TV-Apps, Inc.")
AIT Descriptor Legal Contact	required	Name and e-mail of authorized legal signatory of "AIT Descriptor Specifier"
AIT Descriptor Technical Contact	required	Name and e-mail of technical contact of "AIT Descriptor Specifier"
AIT Descriptor Notes	optional	Notes on the descriptor, e.g. last revised and what revisions were made

#### 8.1.2 MHP\_AIT\_Descriptor allocation template

The scheme and values given in table 41 shall be used for the allocation of MHP\_AIT\_Descriptor values.

Table 41: MHP\_AIT\_Descriptor allocation template

MHP_AIT_Descriptor	Description
0x00 to 0x5F	Reserved for DVB-MHP
0x00	application_descriptor
0x01	application_name_descriptor
0x02	transport_protocol_descriptor
0x03	dvb_j_application_descriptor
0x04	dvb_j_application_location_descriptor
0x05	external_application_authorization_descriptor
0x08	dvb_html_application_descriptor
0x09	dvb_html_application_location_descriptor
0x0A	dvb_html_application_boundary_descriptor
0x0B	application_icons_descriptor
0x0C	prefetch_descriptor
0x0D	DII_location_descriptor
0x0E	delegated_application_descriptor
0x0F	plug-in_descriptor
0x10	application_storage_descriptor
0x11	ip_signalling_descriptor
0x12	provider_export_descriptor
0x13	provider_usage_descriptor
0x14	graphics_constraints_descriptor
0x5F	private_data_specifier_descriptor
0x60 to 0x7F	Reserved for registration to standardized descriptors through the DVB Project Office (see
	http://www.dvbservices.com)
0x80 to 0xFF	Reserved for future use

## 8.1.3 MHP\_AIT\_Descriptor domain names

Table 42 lists the names, under which the MHP\_AIT\_Descriptor is used in different DVB specifications.

Table 42: MHP\_AIT\_Descriptor domain names

Name	Domain	Description
MHP_AIT_Descriptor	Registration Domain	Constituted by the present document
descriptor_tag	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

# 8.2 MHP\_Application\_Type\_ID

## 8.2.0 MHP\_Application\_Type\_ID registration principles

The MHP\_Application\_Type\_ID identifies the type of the applications described in an AIT sub-table, i.e. the engine or plug-in on which the applications can be executed. MHP\_Application\_Type\_ID values shall be allocated to broadcasters, Conditional Access vendors, middleware vendors, and other standardization bodies to identify the types of interactive applications by insertion in the field application\_type.

#### 8.2.1 MHP\_Application\_Type\_ID registration template

To register an MHP\_Application\_Type\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 43: MHP\_Application\_Type\_ID registration template

Registration field	Required	Description
Application Type Specification Name	required	Name of an Application Type Specification (e.g. "ACME Goldenrod 1.0")
Application Type Specifier	required	Name of the organization specifying the "Application Type Specification Name" mentioned above (e.g. "ACMEcast, Inc.")
Application Type Legal Contact	required	Name and e-mail of authorized legal signatory of "Application Type Specifier"
Application Type Technical Contact	required	Name and e-mail of technical contact of "Application Type Specifier"
Application Type Notes	optional	Notes on the application type, e.g. last revised and what revisions were made

## 8.2.2 MHP\_Application\_Type\_ID allocation template

The scheme and values given in table 44 shall be used for the allocation of MHP\_Application\_Type\_ID values.

Table 44: MHP\_Application\_Type\_ID allocation template

MHP_Application_Type_ID	Description	
0x0000	Reserved	
0x0001	DVB-J application	
0x0002	DVB-HTML application	
0x0003 to 0x7FFF	Reserved for registration to standardized applications through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )	

## 8.2.3 MHP\_Application\_Type\_ID domain names

Table 45 lists the names, under which the MHP\_Application\_Type\_ID is used in different DVB specifications.

Table 45: MHP\_Application\_Type\_ID domain names

Name	Domain	Description
MHP_Application_Type_ID	Registration Domain	Constituted by the present document
application_type	DVB-MHP	ETSI TS 101 812 [i.5]
		ETSI TS 102 727 [i.6]
		ETSI TS 102 809 [i.24]
		ETSI TS 102 728 [i.26]

## 8.3 MHP\_Organisation\_ID

## 8.3.0 MHP\_Organisation\_ID registration principles

The MHP\_Organisation\_ID globally and uniquely identifies an organization that is responsible for interactive applications. MHP\_Organisation\_ID values shall be allocated to broadcasters, Conditional Access vendors, middleware vendors, application publishers, and other standardization bodies to identify them as responsible for interactive applications by insertion in the field organisation\_id.

#### 8.3.1 MHP\_Organisation\_ID registration template

To register an MHP\_Organisation\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 46: MHP\_Organisation\_ID registration template

Registration field	Required	Description
Organization Name	required	Name of the organization responsible for the interactive Applications (e.g. "ACMEcast, Inc.")
Organization Legal Contact	required	Name and e-mail of authorized legal signatory of "Organization Name"
Organization Technical Contact	required	Name and e-mail of technical contact of "Organization Name"
Organization Notes	optional	Notes on the organization, e.g. legal successor for, or assignee to other Organization ID holder

#### 8.3.2 MHP\_Organisation\_ID allocation template

The scheme and values given in table 47 shall be used for the allocation of MHP\_Organisation\_ID values.

Table 47: MHP\_Organisation\_ID allocation template

MHP_Organisation_ID	Description	
0x0000000	Reserved	
0x00000001 to 0xFFFFFFF	Reserved for general registration through the DVB Project Office (see	
	http://www.dvbservices.com).	
	These MHP_Organisation_ID values are globally unique.	

#### 8.3.3 MHP\_Organisation\_ID domain names

Table 48 lists the names, under which the MHP\_Organisation\_ID is used in different DVB specifications.

Table 48: MHP\_Organisation\_ID domain names

Name	Domain	Description
MHP_Organisation_ID	Registration Domain	Constituted by the present document
organisation_id organization_id organisationId		ETSI TS 101 812 [i.5] ETSI TS 102 727 [i.6] ETSI TS 102 809 [i.24] ETSI TS 102 728 [i.26]

## 8.4 MHP\_Protocol\_ID

## 8.4.0 MHP\_Protocol\_ID registration principles

The MHP\_Protocol\_ID identifies a protocol used for carrying interactive applications. MHP\_Protocol\_ID values shall be allocated to broadcasters, Conditional Access vendors, middleware vendors, and other standardization bodies to identify protocols for carrying interactive applications by insertion in the field protocol\_id.

## 8.4.1 MHP\_Protocol\_ID registration template

To register an MHP\_Protocol\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 49: MHP\_Protocol\_ID registration template

Registration field	Required	Description
Protocol Specification Name	required	Name of a Protocol Specification (e.g. "ACMEcast 1.0")
Protocol Specifier	required	Name of the organization specifying the "Protocol Specification Name" mentioned above (e.g. "ACMEcast, Inc.")
Protocol Legal Contact	required	Name and e-mail of authorized legal signatory of "Protocol Specifier"
Protocol Technical Contact	required	Name and e-mail of technical contact of "Protocol Specifier"
Protocol Notes	optional	Notes on the protocol, e.g. last revised and what revisions were made

#### 8.4.2 MHP\_Protocol\_ID allocation template

The scheme and values given in table 50 shall be used for the allocation of MHP\_Protocol\_ID values.

Table 50: MHP Protocol ID allocation template

M	HP_Protocol_ID	Description		
	0x0000	Reserved		
0:	<0001 to 0x00FF	Reserved for protocols defined by DVB [i.5], [i.6], [i.24] and [i.26]		
	0x0001	MHP Object Carousel		
	0x0002	IP via DVB Multiprotocol Encapsulation		
	0x0003	HTTP over the interaction channel		
0>	0100 to 0xFFFF	Reserved for registration to standardized protocols through the DVB Project Office (see		
		http://www.dvbservices.com)		

#### 8.4.3 MHP\_Protocol\_ID domain names

Table 51 lists the names, under which the MHP\_Organisation\_ID is used in different DVB specifications.

Table 51: MHP\_Protocol\_ID domain names

Name	Domain	Description
MHP_Protocol_ID	Registration Domain	Constituted by the present document
protocol_id	DVB-MHP	ETSI TS 101 812 [i.5] ETSI TS 102 727 [i.6] ETSI TS 102 809 [i.24] ETSI TS 102 728 [i.26]

# 9 DVB services over bi-directional IP networks (DVB-IPTV) identifiers

## 9.1 Payload\_ID

#### 9.1.0 Introduction

For the transport of SD&S records, ETSI TS 102 034 [i.12] defines the DVBSTP protocol. The different types of SD&S information are distinguished by the Payload\_ID field in the DVBSTP header.

## 9.1.1 Payload\_ID registration template

Since no registration to organizations outside DVB is possible at this time, no registration template is given. Should the Payload\_ID be opened up for public registration in the future, the required registration template will appear here.

#### 9.1.2 Payload\_ID allocation template

The scheme and values given in table 52 shall be used for the allocation of Payload\_ID values.

Table 52: Payload\_ID allocation template

Payload_ID	Description
0x00	Reserved
0x01 to 0EF	Reserved for payload formats defined by DVB [i.12], [i.15] and [i.16]
0x01	SD&S Service Provider Discovery Information
0x02	SD&S Broadcast Discovery Information
0x03	SD&S CoD Discovery Information
0x04	SD&S Services from other SPs
0x05	SD&S Package Discovery Information
0x06	SD&S BCG Discovery Information
0x07	SD&S Regionalization Discovery Information
0x08	FUS Stub file and SD&S RMS-FUS record
0x09	SRM delivery over DVBSTP
0xA1 to 0xAF	BCG Payload_ID values (defined in ETSI TS 102 539 [i.15])
0xB1	CDS XML download session description (defined in ETSI TS 102 539 [i.15])
0xB2	RMS-FUS Firmware Update Announcements (defined in ETSI TS 102 824 [i.16])
0xC1	Application Discovery Information
0xF0 to 0xFF	User defined

#### 9.1.3 Payload\_ID domain names

Table 53 lists the names, under which the Payload\_ID is used in different DVB specifications.

Table 53: Platform\_id domain names

Name	Domain	Description
Payload_ID	Registration Domain	Constituted by the present document
Payload ID payloadId PayloadId		ETSI TS 102 034 [i.12] ETSI TS 102 539 [i.15] ETSI TS 102 824 [i.16]

# 10 IP Datacast over DVB (DVB-IPDC) identifiers

## 10.1 IPDC\_Operator\_ID

## 10.1.0 IPDC\_Operator\_ID registration principles

An IPDC Operator is a network entity managing IPDC key streams. It is uniquely identified by a pair of two DVB identifiers:

- an IPDC\_Operator\_ID value; and
- a CA\_System\_ID value (see clause 5.2).

IPDC\_Operator\_ID values shall be allocated to IPDC operators to construct - under the scope of a CA\_system\_ID value - the unique identification of an IPDC operator [i.18].

For CA\_system\_ID values in the range of 0x0001 to 0x00FF (standardized CA systems), associated IPDC\_Operator\_ID values shall be registered through the DVB Project Office.

#### 10.1.1 IPDC\_Operator\_ID registration template

To register an IPDC\_Operator\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 54: IPDC\_Operator\_ID registration template

Registration field	Required	Description	
IPDC Operator ID Type	required	Type of the IPDC Operator ID to be registered, i.e. string or numerical	
IPDC Operator CA System ID	required	The CA_System_id (see clause 5.2) which has already been registered to "IPDC Operator Name", and under which the "IPDC Operator ID" will be used	
IPDC Operator Name	required	Name of the organization supplying Conditional Access services (e.g. "ACME Mobile Services, Inc.")	
IPDC Operator Legal Contact	required	Name and e-mail of authorized legal signatory of "IPDC Operator Name"	
IPDC Operator Technical Contact	required	Name and e-mail of technical contact of "IPDC Operator Name"	
IPDC Operator Notes optional Notes on the application, e.g. last revised and what revisions was made		Notes on the application, e.g. last revised and what revisions were made	
NOTE: For historical reasons, the IPDCOperatorId value actually used in IPDC signalling can either be a numerical value or a string value, depending on the CA system with which it is associated (e.g. IPDC SPP Open			
Security Framework is traditionally associated with IPDCOperatorId numerical values, whereas IPDC SPP 18Crypt is traditionally associated with IPDCOperatorId string values).			

When a string ID is to be registered, it shall be a unique text string compliant with one of the two XML built-in data types "string" or "anyURI".

#### 10.1.2 IPDC\_Operator\_ID allocation template

The scheme and values given in table 55 shall be used for the allocation of IPDC\_Operator\_ID values.

Table 55: Numerical IPDC Operator ID allocation template

IPDC_Operator_ID	Description	
0x0000	Reserved for non-encrypted services	
	Reserved for general registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> ).	

## 10.1.3 IPDC\_Operator\_ID domain names

Table 56 lists the names, under which the IPDC\_Operator\_ID is used in different DVB specifications.

Table 56: IPDC\_Operator\_ID domain names

Name	Domain	Description
IPDC_Operator_ID	Registration Domain	Constituted by the present document
IPDC_Operator_ID IPDCOperatorId	DVB-IPDC	ETSI TS 102 832 [i.17] ETSI TS 102 611-1 [i.18] ETSI TS 102 474 [i.19]

## 10.2 IPDC\_Notification\_Type

#### 10.2.0 IPDC\_Notification\_Type registration principles

IPDC Notification is a function by which the network provides messages about forthcoming and not predictable events of interest to the terminal or the user. An IPDC Notification may lead to subsequent interaction from the user/the terminal. The information carried in the notification messages can be related to the (DVB) network supporting the IPDC system, the IP platform, or the services described in a given ESG.

Static, standardized IPDC\_Notification\_Type values shall be allocated to broadcasters, Conditional Access vendors, middleware vendors, and other standardization bodies to identify the types of Notification message targeting an IPDC Notification application in the terminal or in the smartcard within the application area of ETSI TS 102 832 [i.17], by insertion in the field NotificationType. Allocations shall only be made for Notification Types which are fully described in a publicly available document from a recognized standardization body.

#### 10.2.1 IPDC\_Notification\_Type registration template

To register an IPDC\_Notification\_Type, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 57: IPDC\_Notification\_Type registration template

Registration field	Required	Description
IPDC Notification Type MIME Type	required	MIME type of the application-specific message part
IPDC Notification Type Specification Name	required	Name of an IPDC Notification Type Specification (e.g. "ACME InfoServ 1.0")
IPDC Notification Type Specifier	required	Name of the organization specifying the "IPDC Notification Type Specification Name" mentioned above (e.g. "ACMEcast, Inc.")
IPDC Notification Legal Contact	required	Name and e-mail of authorized legal signatory of "IPDC Notification Type Specifier"
IPDC Notification Type Technical Contact	required	Name and e-mail of technical contact of "IPDC Notification Type Specifier"
IPDC Notification Type Notes	optional	Notes on the application type, e.g. last revised and what revisions were made

## 10.2.2 IPDC\_Notification\_Type allocation template

The scheme and values given in table 58 shall be used for the allocation of IPDC\_Notification\_Type values.

Table 58: IPDC\_Notification\_Type allocation template

II	PDC_Notification_Type	MIME Type	Description
	0x0000 to 0x00FF	Reserved for registration to sta	ndardized applications through the DVB Project Office (see
		http://www.dvbservices.com)	
	0x0000		Reserved for specific IPDC signalling
	0x0001	text/xml	ESG update message
	0x0002	application/octet-stream	Notification application inside the smartcard, invoked by the
			OMA Smart Card Web Server
	0x0100 to 0xFFFF	User defined (dynamically assi	gned in the scope of an IP platform)

## 10.2.3 IPDC\_Notification\_Type domain names

Table 59 lists the names, under which the IPDC\_Notification\_Type is used in different DVB specifications.

Table 59: IPDC\_Notification\_Type domain names

Name	Domain	Description
IPDC_Notification_Type	Registration Domain	Constituted by the present document
NotificationType		ETSI TS 102 832 [i.17] ETSI TS 102 611-1 [i.18] ETSI TS 102 474 [i.19]

#### 10.3 Root\_of\_Trust\_ID

#### 10.3.0 Root\_of\_Trust\_ID registration principles

The 18Crypt profile of DVB-IPDC Service Purchase and Protection (SPP) uses a public-key infrastructure (PKI) to manage authorization, authentication, data integrity, and certificate revocations. The Root\_of\_Trust\_ID globally and uniquely identifies a trust-centre organization that is responsible for issuing and managing certificates [i.19]. Root\_of\_Trust\_ID values shall be allocated only to bona fide trust-centre organizations. Applicants need to demonstrate that the vendor is proposing a registration for a legitimate Root-of-Trust product.

## 10.3.1 Root\_of\_Trust\_ID registration template

To register a Root\_of\_Trust\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 60: Root\_of\_Trust\_ID registration template

Registration field	Required	Description
Root of Trust Name	required	Name of the organization supplying trust-centre services (e.g. "ACME
		Trust Centre, Inc.")
Root of Trust Legal Contact	required	Name and e-mail of authorized legal signatory of "Root of Trust Name"
Root of Trust Technical Contact	required	Name and e-mail of technical contact of "Root of Trust Name"
Root of Trust Notes	optional	Notes on the application, e.g. last revised and what revisions were
		made

## 10.3.2 Root\_of\_Trust\_ID allocation template

The scheme and values given in table 61 shall be used for the allocation of Root\_of\_Trust\_ID values.

Table 61: Root\_of\_Trust\_ID allocation template

ı	Root_of_Trust_ID	CA system specifier		
	000 to 001	Reserved for registration to systems defined by DVB		
	002 to 999	Reserved for general registration through the DVB Project Office (see		
		http://www.dvbservices.com)		

#### 10.3.3 Root\_of\_Trust\_ID domain names

Table 62 lists the names, under which the Root\_of\_Trust\_ID is used in different DVB specifications.

Table 62: Root\_of\_Trust\_ID domain names

Name	Domain	Description
Root_of_Trust_ID	Registration Domain	Constituted by the present document
rot_id	DVB-IPDC	ETSI TS 102 832 [i.17]
		ETSI TS 102 611-1 [i.18]
		ETSI TS 102 474 [i.19]

# 11 Identifiers for TV-Anytime over DVB (DVB-TVA) and other technologies

## 11.0 Scope

Clause 11 covers the identifiers defined in ETSI TS 102 323 [i.11], ETSI TS 102 823 [i.29] and ISO/IEC 13818-1 [i.28].

## 11.1 Metadata\_Application\_Format

#### 11.1.0 Introduction

The Metadata\_Application\_Format specifies the application responsible for defining usage, syntax and semantics of various metadata elements.

#### 11.1.1 Metadata\_Application\_Format registration template

To register a Metadata\_Application\_Format, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 63: Metadata\_Application\_Format registration template

Registration field	Required	Description
Metadata Application Format Specification	required	Name of a Metadata Application Format Specification
Name		(e.g. "ACME Content Guide 1.0")
Metadata Application Format Specifier	required	Name of the organization specifying the "Metadata
		Application FormatSpecification Name" mentioned above
		(e.g. "ACMEcast, Inc.")
Metadata Application Format Legal	required	Name and e-mail of authorized legal signatory of "Metadata
Contact		Application Format Specifier"
Metadata Application Format Technical	required	Name and e-mail of technical contact of "Metadata
Contact		Application Format Specifier"
Metadata Application Format Notes	optional	Notes on the application type, e.g. last revised and what
		revisions were made

## 11.1.2 Metadata\_Application\_Format allocation template

The scheme and values given in table 64 shall be used for the allocation of Metadata\_Application\_Format values.

Table 64: Metadata Application Format allocation template

Metadata_Application_Fo	ormat Description
0x0000 to 0x00FF	Reserved for allocation by ISO/IEC 13818-1 [i.28]
0x0100 to 0x027F	Reserved for registration to standardized applications through the DVB Project Office
	(see http://www.dvbservices.com)
0x0100	DVB profile of TV-Anytime [i.11]
0x0101	UK DTG profile of TV-Anytime
0x0280 to 0x03FF	Reserved for general registration through the DVB Project Office (see
	http://www.dvbservices.com)
0x0400 to 0xFFFE	User defined
0xFFFF	Defined by the metadata_application_format_identifier field [i.28]

#### 11.1.3 Metadata\_Application\_Format domain names

Table 65 lists the names, under which the Metadata\_Application\_Format is used in different DVB specifications.

Table 65: Metadata\_Application\_Format domain names

Name	Domain	Description
Metadata_Application_Format	Registration Domain	Constituted by the present document
metadata_application_format		ETSI TS 102 323 [i.11] ETSI TS 102 823 [i.29]

# 12 Common Interface (DVB-CI) identifiers

## 12.0 Scope

Clause 12 covers the identifiers defined in ETSI TS 101 699 [i.30].

## 12.1 Registration\_Authority\_ID

### 12.1.0 Registration\_Authority\_ID registration principles

The Registration\_Authority\_ID identifies the authority that allocates private\_resource\_definer values (see clause 12.2) to applicants. This identifier is managed by ETSI. It allows ETSI to delegate authority for managing parts of the range of private\_resource\_definer values to other registration authorities.

## 12.1.1 Registration\_Authority\_ID registration template

Since no registration to organizations outside ETSI is possible at this time, no registration template is given. Should the Registration\_Authority\_ID be opened up for public registration in the future, the required registration template will appear here.

## 12.1.2 Registration\_Authority\_ID allocation template

The scheme and values given in table 66 shall be used for the allocation of Registration\_Authority\_ID values.

Table 66: Registration Authority ID allocation template

Registration_Authority_ID	Registration Authority
0	the present document
1 to 15	reserved for future use by ETSI

## 12.1.3 Registration\_Authority\_ID domain names

Table 67 lists the names, under which the Registration\_Authority\_ID is used in different DVB specifications.

Table 67: Registration\_Authority\_ID domain names

Name	Domain	Description
Registration_Authority_ID	Registration Domain	Constituted by the present document
registration_authority	DVB-CI	ETSI TS 101 699 [i.30]

## 12.2 Private\_Resource\_Definer\_ID

#### 12.2.0 Introduction

The Private\_Resource\_Definer\_ID specifies the organization responsible for defining usage, syntax and semantics of private resources provided by DVB-CI modules.

#### 12.2.1 Private Resource Definer ID registration template

To register a Private\_Resource\_Definer\_ID, applicants shall supply at least the information labelled as "required" in the registration template below.

Table 68: Private\_Resource\_Definer\_ID registration template

Registration field	Required	Description
Resource Definer Name	required	Name of the organization responsible for defining the resources
		(e.g. "ACMEcast, Inc.")
Resource Definer Legal Contact	required	Name and e-mail of authorized legal signatory of "Resource
-		Definer Name"
Resource Definer Technical Contact	required	Name and e-mail of technical contact of "Resource Definer
		Name"
Resource Definer Notes	optional	Notes on the organization, e.g. legal successor for, or assignee
	-	to other Resource Definer ID holder

#### 12.2.2 Private Resource Definer ID allocation template

The scheme and values given in table 69 shall be used for the allocation of Private\_Resource\_Definer\_ID values.

Table 69: Private\_Resource\_Definer\_ID allocation template

Registration Authority	Private_Resource_Definer_ID	Description
(see note)		
0	0x000 to 0x0FF	Organizations that have a CA_System_ID (see clause 5.2) are automatically allocated a private definer where the least significant byte of the definer is the most significant byte of CA_System_ID.
	0x100 to 0xFFF	Reserved for general registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> )
1 to 15	0x000 to 0xFFF	reserved for future use by ETSI
NOTE: See clause 12.	1.	

## 12.2.3 Private\_Resource\_Definer\_ID domain names

Table 70 lists the names, under which the Private\_Resource\_Definer\_ID is used in different DVB specifications.

Table 70: Private\_Resource\_Definer\_ID domain names

Name	Domain	Description
Private_Resource_Definer_ID	Registration Domain	Constituted by the present document
private_resource_definer	DVB-CI	ETSI TS 101 699 [i.30]

# 13 DVB Extensions to CI Plus<sup>™</sup> (DVB-CI-Plus) identifiers

## 13.1 Scope

Clause 13 covers the identifiers defined in ETSI TS 103 205 [i.37].

#### 13.2 CC\_System\_ID

#### 13.2.1 Introduction

The CC\_System\_ID identifies the Content Control system used for content control for a particular instance of the interface. It is defined in CI Plus [i.36] and its usage is clarified in ETSI TS 103 205 [i.37].

Content Control systems often use public-key infrastructures (PKI) to manage authorization, authentication, data integrity, and certificate revocations. If and when this is the case, a registered CC\_System\_ID value is also implicitly associated with the root-of-trust of the respective PKI.

#### 13.2.2 CC\_System\_ID registration principles

CC\_System\_ID values shall be allocated only to bona fide organizations. Applicants need to demonstrate that the vendor is proposing a registration for a legitimate content control product.

#### 13.2.3 CC\_System\_ID registration template

To register a CC\_System\_ID, applicants shall supply at least the information labelled as "required" in the registration template given in table 71.

Registration field Required Description CC System Name Name for the CC system. required CC System Specifier Name of the organization which is responsible required for the CC system. CC System Legal Contact Name and e-mail of authorized legal signatory of required "CC System Name". CC System Technical Contact Name and e-mail of technical contact of "CC required System Name". CC System Notes Notes on the application, e.g. last revised and optional what revisions were made

Table 71: CC\_System\_ID registration template

## 13.2.4 CC\_System\_ID allocation template

The scheme and values given in table 72 shall be used for the allocation of CC\_System\_ID values.

Table 72: CC\_System\_ID allocation template

CC_System_ID	Bit of cc_system_id_bitm ask	Description
1	b <sub>0</sub>	Allocated for the CI Plus LLP PKI as defined in CI Plus Specification 1.3 [i.38] (CI Plus Root of Trust).
2	b <sub>1</sub>	Allocated for the CI Plus LLP PKI as defined in CI Plus Specification 1.4 [i.39] (CI Plus 2nd Root of Trust).
3 to 7	b <sub>2</sub> to b <sub>6</sub>	Reserved for registration through the DVB Project Office (see <a href="http://www.dvbservices.com">http://www.dvbservices.com</a> ).
n/a	b <sub>7</sub>	Reserved for a future extension mechanism for additional CC_System_IDs.

# 13.2.5 CC\_System\_ID domain names

Table 73 lists the names, under which the CC\_System\_ID is used in different DVB specifications.

Table 73: CC\_System\_ID domain names

Name	Domain	Description
CC_System_ID	Registration Domain	Constituted by the present document.
CC system ID	DVB-CI	ETSI TS 103 205 [i.37]

# Annex A (informative):

# Example Scenarios for the Utilization of network\_id and original\_network\_id

# A.1 Re-transmission of a satellite signal in terrestrial networks

A service operator A-TV transmits his transport stream to satellite X-SAT. The signal is re-transmitted by the terrestrial network A-NET in country A with modifications to the content. The signal is re-transmitted by the terrestrial network in country B without modifications to the content:

- A-TV has the unique original\_network\_id 0x1234.
- Another television network B-TV (original\_network\_id = 0x5678) is using the same satellite for the contribution to A-Net in country A and to B-Net in country B.
- The original\_network\_id of a DVB-T network is likely to have been allocated for the country according to
  clause 5.7. The originating service operator and its original\_network\_id in this case do not occur in the NIT of
  terrestrial networks.
- X-SAT has the network\_id 0x0200 (in range of unique satellite networks).
- A-NET and B-Net share the re-usable terrestrial network\_id range of 0x3300 to 0x334F.

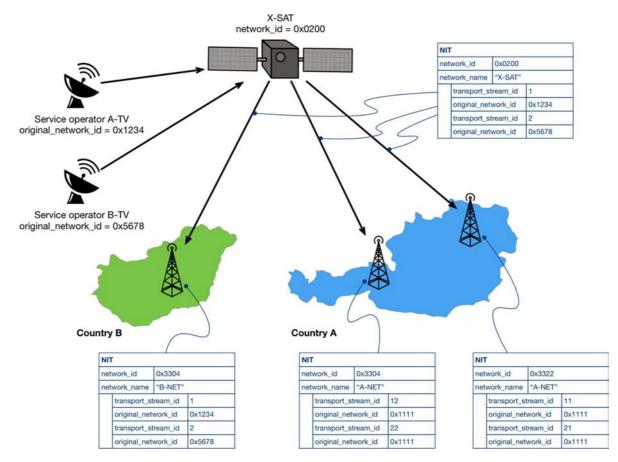


Figure A.1

The satellite NIT contains the original\_network\_id of A-TV and the network\_id of X-SAT.

On the terrestrial network the original\_network\_id has always the value that has been allocated for a certain country as defined in clause 5.6. The network\_id is replaced by one of the network\_ids of country A that could be re-used in country B if it has the same colour in the colour-map.

# A.2 Re-transmission of a satellite signal in cable networks

The same scheme as above applies. Cable networks generally use re-usable network\_ids because there is no risk that IRDs are connected to two cable networks sharing the same network\_id at the same time.

The satellite serves different cable networks in L-Town and in E-Town. They can use the same network\_id because they are physically separated.

A special case is the transmission of cable network NITs as "foreign" NITs on a satellite. In this case the cable network\_ids have to be in the unique range of values since a collision on other networks using the same re-usable network\_id cannot be guaranteed. **Note that this method is not recommended since the number of unique network\_ids is limited.** 

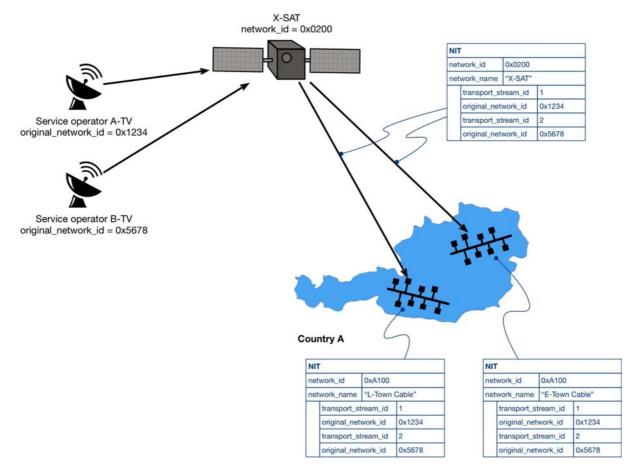


Figure A.2

# History

Document history		
Edition 1	October 1995	Publication as ETSI ETR 162
V1.2.1	July 2009	Publication
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