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

EBU
OPERATING EUROVISION

DVB[®]
Digital Video
Broadcasting

Reference

RTS/JTC-DVB-336

Keywords

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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.

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 EN 300 468 [i.1] by reference. Further details can be obtained by contacting DVB Services Sàrl.

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2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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

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

2.1 Normative references

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

Not applicable.

2.2 Informative references

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

- [i.1] ETSI 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] ETSI TS 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®: "OpenCable™ Application Platform Specifications; OCAP™ 1.1 Profile; OC-SP-OCAP1.1.3-100603".
- NOTE: <http://www.cablelabs.com/specifications/OC-SP-OCAP1.1.3-100603.pdf>.
- [i.21] ATSC A/101: "Advanced Common Application Platform (ACAP)".
- NOTE: http://www.atsc.org/cms/standards/a_101a.pdf.
- [i.22] Open IPTV Forum: "OIPF Release 1 Specification Volume 3 - Content Metadata".
- NOTE: http://www.oipf.tv/docs/Release1/Release1_1/OIPF-T1-R1-Specification-Volume-3-Content-Metadata-V1_1-2009-10-08.pdf.
- [i.23] Open IPTV Forum: "OIPF Release 1 Specification Volume 5 - Declarative Application Environment".
- NOTE: http://www.oipf.tv/docs/Release1/Release1_1/OIPF-T1-R1-Specification-Volume-5-Declarative-Application-Environment-V1_1-2009-10-08.pdf.
- [i.24] Open IPTV Forum: "OIPF Release 1 Specification Volume 6 - Procedural Application Environment".
- NOTE: http://www.oipf.tv/docs/Release1/Release1_1/OIPF-T1-R1-Specification-Volume-6-Procedural-Application-Environment-V1_1-2009-10-08.pdf.
- [i.25] ETSI TS 102 809: "Digital Video Broadcasting (DVB); Signalling and carriage of interactive applications and services in Hybrid broadcast/broadband environments".
- [i.26] ETSI ES 202 184: "MHEG-5 Broadcast Profile".
- [i.27] ETSI TS 102 728: "Digital Video Broadcasting (DVB); Globally Executable MHP (GEM) Specification 1.3 (including OTT and hybrid broadcast/broadband)".

- [i.28] ETSI TS 102 471: "Digital Video Broadcasting (DVB); IP Datacast over DVB-H: Electronic Service Guide (ESG)".
- [i.29] ISO/IEC 13818-1: "Information technology - Generic coding of moving pictures and associated audio information: Systems".
- [i.30] ETSI TS 102 823: "Digital Video Broadcasting (DVB); Specification for the carriage of synchronized auxiliary data in DVB transport streams".
- [i.31] ETSI TS 101 699: "Digital Video Broadcasting (DVB); Extensions to the Common Interface Specification".
- [i.32] ETSI TS 102 825: "Digital Video Broadcasting (DVB); Content Protection and Copy Management (DVB-CPCM)".
- [i.33] ETSI TS 102 770: "Digital Video Broadcasting (DVB); System Renewability Messages (SRM) in DVB Systems".
- [i.34] ETSI EN 302 307: "Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications (DVB-S2)".
- [i.35] ETSI EN 300 744: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for digital terrestrial television".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions 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 Abbreviations

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

ACAP Advanced Common Application Platform

NOTE: See A/101 [i.21].

ACME Acme Corporation, a fictional company used in examples

NOTE: See http://en.wikipedia.org/wiki/Acme_Corporation.

AIT Application Information Table

ATM Asynchronous Transfer Mode

BCG Broadband Content Guide

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

CA Conditional Access

CDS	Content Download Service
NOTE:	See TS 102 539 [i.15].
CoD	Content on Demand
NOTE:	See TS 102 034 [i.12].
CP	Copy Protection
CPCM	Content Protection Copy Management
NOTE:	See TS 102 825 [i.32].
CPS	Content Protection System
DVB	Digital Video Broadcasting
DVB-CI	DVB Common Interface
NOTE:	See EN 50221 [i.10].
DVB-J	DVB-Java
NOTE:	See TS 101 812 [i.5] and TS 102 727 [i.6].
DVB-SI	DVB Service Information
NOTE:	See EN 300 468 [i.1].
DVB-S2	Second generation DVB satellite modulation
NOTE:	See EN 302 307 [i.34].
DVBSTP	DVB SD&S Transport Protocol
NOTE:	See TS 102 539 [i.15].
DVB-T	DVB terrestrial modulation
NOTE:	See EN 300 744 [i.35].
ESG	Electronic Service Guide
NOTE:	See TS 102 471 [i.28].
GEM	Globally Executable MHP
GSE	Generic Stream Encapsulation
FUS	Firmware Update Service
NOTE:	See TS 102 824 [i.16].
HTTP	Hypertext Transfer Protocol
ID	IDentity
IP	Internet Protocol
IPDC	IP Datacast
IPTV	Internet Protocol TV
LLC	Logical Link Control
MAC	Medium Access Control
MHP	Multimedia Home Platform
MHEG	Multimedia and Hypermedia Experts Group
NOTE:	See ES 202 184 [i.26].
MMDS	Multichannel Multipoint Distribution Service
MPEG	Motion Picture Expert Group
NOTE:	See EN 300 468 [i.1].

NIT	Network Information Table
NOTE:	See EN 300 468 [i.1].
OCAP™	OpenCable™ Application Platform Specification
NOTE:	See OC-SP-OCAP1.1.3-100603 [i.20].
OMA	Open Mobile Alliance
NOTE:	See http://openmobilealliance.org .
PKI	Public-Key Infrastructure
SD&S	Service Discovery and Selection
NOTE:	See TS 102 034 [i.12].
SI	Service Information
SPP	Service Purchase and Protection
NOTE:	See TS 102 474 [i.19].
SRM	System Renewability Messages
NOTE:	See TS 102 770 [i.33].
TS	Transport Stream
NOTE:	See EN 300 468 [i.1].
UK DTG	United Kingdom Digital TV Group
NOTE:	See http://dtg.org.uk .
XML	Extensible Markup Language

4 Principles 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 (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 www.dvb.org.
- 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 sub-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

This clause and its sub-clauses cover the identifiers defined in EN 300 468 [i.1].

5.1 Bouquet_ID

Bouquet_ID values shall be allocated to broadcasters and network operators to identify bouquets within the application area of 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	Reserved
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	EN 300 468 [i.1] TS 101 211 [i.2]
bouquet_id	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4]
bouquet_id	DVB-TVA	TS 102 323 [i.11]
bouquetId	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

5.2 CA_System_ID

CA_System_ID values shall be allocated to Conditional Access system vendors to identify CA systems within the application area of 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	EN 300 468 [i.1] TS 101 211 [i.2]
CA_system_id	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4]
CA_system_id	DVB-TVA	TS 102 323 [i.11]
CASystemId	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

5.3 CP_System_ID

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 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

CP_System_ID	CP system specifier
0x0000 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
0x0100 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	EN 300 468 [i.1] TS 101 211 [i.2]

5.4 Country Code

Country Code values shall be allocated to geographical areas to identify groups of countries or parts of countries within the application area of 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 http://www.dvbservices.com)

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	EN 300 468 [i.1] TS 101 211 [i.2]

5.5 Encoding_Type_ID

Encoding_Type_ID values shall be allocated to broadcasters, network operators and content producers to identify string encodings within the application area of 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	CP system specifier
0x00	Reserved
0x01 to 0xEF	Reserved for general registration through the DVB Project Office (see http://www.dvbservices.com)
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	EN 300 468 [i.1] TS 101 211 [i.2]

5.6 Network_ID

Network_ID values shall be allocated to broadcasters and network operators to identify networks within the application area of 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.

Table 16: Network_ID registration template

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

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.
- 3) 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 http://www.dvbservices.com)
0x2001 to 0x3000	Unique terrestrial	Terrestrial	all	4 096 values reserved for registration through the DVB Project Office (see http://www.dvbservices.com)
0x3001 to 0x3600	Re-useable terrestrial	Terrestrial	as registered	1 536 values reserved for registration through the DVB Project Office (see http://www.dvbservices.com)
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 http://www.dvbservices.com)
0xA001 to 0xB000	Re-useable cable	Cable	as registered	4 096 values reserved for registration through the DVB Project Office (see http://www.dvbservices.com)
0xB001 to 0xF000	Reserved for future use	Cable	to be defined	16 384 values reserved for registration through the DVB Project Office (see http://www.dvbservices.com)
0xF001 to 0xFF00	Unique cable	Cable	all	3 840 values reserved for registration through the DVB Project Office (see http://www.dvbservices.com)
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	EN 300 468 [i.1] TS 101 211 [i.2]
network_id	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4] TS 102 006 [i.13]
network_id	DVB-TVA	TS 102 323 [i.11]
networkId	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

5.7 Original_Network_ID

Original_Network_ID values shall be allocated to broadcasters, network operators and content producers to uniquely identify networks within the application area of 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.

Table 19: Original_Network_ID registration template

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

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 http://www.dvbservices.com)
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	EN 300 468 [i.1] TS 101 211 [i.2]
original_network_id	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4] TS 102 006 [i.13]
original_network_id	DVB-TVA	TS 102 323 [i.11]
originalNetworkId	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

5.8 Private_Data_Specifier_ID

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 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
0x00000001 to 0xFFFFFFFF	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	EN 300 468 [i.1] TS 101 211 [i.2]
private_data_specifier	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4] TS 102 006 [i.13]
private_data_specifier	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

6 Data Broadcast (DVB-DATA) identifiers

This clause and its sub-clauses cover the identifiers defined in EN 301 192 [i.3].

6.1 Data_Broadcast_ID

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 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 25: 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 26 shall be used for the allocation of Data_Broadcast_ID values.

Table 26: 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]
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 0xFFFFE	Reserved for general registration through the DVB Project Office (see http://www.dvbservices.com)
0xFFFF	Reserved for future use
NOTE: See clause "4.2.6.4 Data broadcast id descriptor" of [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 27 lists the names, under which the Data_Broadcast_ID is used in different DVB specifications.

Table 27: Data_Broadcast_ID domain names

Name	Domain	Description
Data_Broadcast_ID	Registration Domain	Constituted by the present document
data_broadcast_id	DVB-SI	EN 300 468 [i.1] TS 101 211 [i.2]
data_broadcast_id	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4] TS 102 006 [i.13]
data_broadcast_id	DVB-TVA	TS 102 323 [i.11]
data_broadcast_id	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

6.2 Platform_ID

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 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 28: Platform_ID registration template

Registration field	Required	Description
Platform Name	required	Name of the IP/MAC Platform (e.g. "ACME MobileTV").
Platform Operator	required	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 29 shall be used for the allocation of Platform_ID values.

Table 29: 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.
0xFFFF00 to 0xFFFFFE	Managed by the network operator, and may be used for IP/MAC Platforms supporting 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 30 lists the names, under which the Platform_ID is used in different DVB specifications.

Table 30: Platform_ID domain names

Name	Domain	Description
Platform_ID	Registration Domain	Constituted by the present document
platform_id	DVB-SI	EN 300 468 [i.1] TS 101 211 [i.2]
platform_id	DVB-DATA	EN 301 192 [i.3] TR 101 202 [i.4] TS 102 006 [i.13]
platform_id	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

7 Generic Stream Encapsulation (DVB-GSE) identifiers

This clause and its sub-clauses cover the identifiers defined in TS 102 606-1 [i.8].

7.1 Protocol_Type_ID

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 [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 31: 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 32 shall be used for the allocation of Protocol_Type_ID values.

Table 32: Protocol_Type_ID allocation template

Protocol_Type_ID	Description
0x00	Generic Stream Encapsulation [i.8], [i.14]
0x01	Generic Stream Encapsulation with error detection adaptation layer [i.8], [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 [i.14].

7.1.3 Protocol_Type_ID domain names

Table 33 lists the names, under which the Protocol_Type_ID is used in different DVB specifications.

Table 33: Protocol_Type_ID domain names

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

7.2 Application_System_ID

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 34: Application_System_ID registration template

Registration field	Required	Description
Application System Specification Name	required	Name of an Application System Specification (e.g. "ACME 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 35 shall be used for the allocation of Data_Broadcast_ID values.

Table 35: 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 36 lists the names, under which the Application_System_ID is used in different DVB specifications.

Table 36: Application_System_ID domain names

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

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

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 (TS 101 812 [i.5] and TS 102 727 [i.6]), the AIT is now used with other technologies including OCAP™ [i.20], ACAP [i.21], MHEG-5 [i.26] and various specifications which use TS 102 809 [i.25], for example the Open IPTV Forum specifications [i.22], [i.23] and [i.24]. 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 37: MHP_AIT_Descriptor registration template

Registration field	Required	Description
AIT Descriptor Specification Name	required	Name of an AIT Descriptor Specification (e.g. "ACME InteractiveApps 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 38 shall be used for the allocation of MHP_AIT_Descriptor values.

Table 38: 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 39 lists the names, under which the MHP_AIT_Descriptor is used in different DVB specifications.

Table 39: MHP_AIT_Descriptor domain names

Name	Domain	Description
MHP_AIT_Descriptor	Registration Domain	Constituted by the present document
descriptor_tag	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

8.2 MHP_Application_Type_ID

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 40: 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 41 shall be used for the allocation of MHP_Application_Type_ID values.

Table 41: 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 http://www.dvbservices.com)

8.2.3 MHP_Application_Type_ID domain names

Table 42 lists the names, under which the MHP_Application_Type_ID is used in different DVB specifications.

Table 42: MHP_Application_Type_ID domain names

Name	Domain	Description
MHP_Application_Type_ID	Registration Domain	Constituted by the present document
application_type	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

8.3 MHP_Organisation_ID

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 43: 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 44 shall be used for the allocation of MHP_Organisation_ID values.

Table 44: MHP_Organisation_ID allocation template

MHP_Organisation_ID	Description
0x000000	Reserved
0x000001 to 0xFFFFFFFF	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 45 lists the names, under which the MHP_Organisation_ID is used in different DVB specifications.

Table 45: MHP_Organisation_ID domain names

Name	Domain	Description
MHP_Organisation_ID	Registration Domain	Constituted by the present document
organisation_id organization_id organisationId	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

8.4 MHP_Protocol_ID

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 46: 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 47 shall be used for the allocation of MHP_Protocol_ID values.

Table 47: MHP_Protocol_ID allocation template

MHP_Protocol_ID	Description
0x0000	Reserved
0x0001 to 0x00FF	Reserved for protocols defined by DVB [i.5], [i.6], [i.25] and [i.27]
0x0001	MHP Object Carousel
0x0002	IP via DVB Multiprotocol Encapsulation
0x0003	HTTP over the interaction channel
0x0100 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 48 lists the names, under which the MHP_Organisation_ID is used in different DVB specifications.

Table 48: MHP_Protocol_ID domain names

Name	Domain	Description
MHP_Protocol_ID	Registration Domain	Constituted by the present document
protocol_id	DVB-MHP	TS 101 812 [i.5] TS 102 727 [i.6] TS 102 809 [i.25] TS 102 728 [i.27]

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

9.1 Payload_ID

For the transport of SD&S records, 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 49 shall be used for the allocation of Payload_ID values.

Table 49: Payload_ID allocation template

Payload_ID	Description
0x00	Reserved
0x01 to 0xEF	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 TS 102 539 [i.15])
0xB1	CDS XML download session description (defined in TS 102 539 [i.15])
0xB2	RMS-FUS Firmware Update Announcements (defined in TS 102 824 [i.16])
0xC1	Application Discovery Information
0xF0 to 0xFF	User defined

9.1.3 Payload_ID domain names

Table 50 lists the names, under which the Payload_ID is used in different DVB specifications.

Table 50: Platform_id domain names

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

10 IP Datacast over DVB (DVB-IPDC) identifiers

10.1 IPDC_Operator_ID

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 51: 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 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 52 shall be used for the allocation of IPDC_Operator_ID values.

Table 52: Numerical IPDC_Operator_ID allocation template

IPDC_Operator_ID	Description
0x0000	Reserved for non-encrypted services
0x0001 to 0xFFFF	Reserved for general registration through the DVB Project Office (see http://www.dvbservices.com).

10.1.3 IPDC_Operator_ID domain names

Table 53 lists the names, under which the IPDC_Operator_ID is used in different DVB specifications.

Table 53: IPDC_Operator_ID domain names

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

10.2 IPDC_Notification_Type

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 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 54: 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 a 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 55 shall be used for the allocation of IPDC_Notification_Type values.

Table 55: IPDC_Notification_Type allocation template

IPDC_Notification_Type	MIME Type	Description
0x0000 to 0x00FF		Reserved for registration to standardized 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 assigned in the scope of an IP platform)

10.2.3 IPDC_Notification_Type domain names

Table 56 lists the names, under which the IPDC_Notification_Type is used in different DVB specifications.

Table 56: IPDC_Notification_Type domain names

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

10.3 Root_of_Trust_ID

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 57: 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 58 shall be used for the allocation of Root_of_Trust_ID values.

Table 58: Root_of_Trust_ID allocation template

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 59 lists the names, under which the Root_of_Trust_ID is used in different DVB specifications.

Table 59: Root_of_Trust_ID domain names

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

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

This clause and its sub-clauses cover the identifiers defined in TS 102 323 [i.11], TS 102 823 [i.30] and ISO/IEC 13818-1 [i.29].

11.1 Metadata_Application_Format

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 60: Metadata_Application_Format registration template

Registration field	Required	Description
Metadata Application Format Specification Name	required	Name of a Metadata Application Format Specification (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 Contact	required	Name and e-mail of authorized legal signatory of "Metadata Application Format Specifier"
Metadata Application Format Technical Contact	required	Name and e-mail of technical contact of "Metadata 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 table 61 in shall be used for the allocation of Metadata_Application_Format values.

Table 61: Metadata_Application_Format allocation template

Metadata_Application_Format	Description
0x0000 to 0x00FF	Reserved for allocation by ISO/IEC 13818-1 [i.29]
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 0xFFFFE	User defined
0xFFFF	Defined by the metadata_application_format_identifier field [i.29]

11.1.3 Metadata_Application_Format domain names

Table 62 lists the names, under which the Metadata_Application_Format is used in different DVB specifications.

Table 62: Metadata_Application_Format domain names

Name	Domain	Description
Metadata_Application_Format	Registration Domain	Constituted by the present document
metadata_application_format	DVB-TVA	TS 102 323 [i.11] TS 102 823 [i.30]

12 Common Interface (DVB-CI) identifiers

This clause and its sub-clauses cover the identifiers defined in TS 101 699 [i.31].

12.1 Registration_Authority_ID

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 63 shall be used for the allocation of Registration_Authority_ID values.

Table 63: 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 64 lists the names, under which the Registration_Authority_ID is used in different DVB specifications.

Table 64: Registration_Authority_ID domain names

Name	Domain	Description
Registration_Authority_ID	Registration Domain	Constituted by the present document
registration_authority	DVB-CI	TS 101 699 [i.31]

12.2 Private_Resource_Definer_ID

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 65: 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 66 shall be used for the allocation of Private_Resource_Definer_ID values.

Table 66: Private_Resource_Definer_ID allocation template

Registration Authority (see note)	Private_Resource_Definer_ID	Description
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 http://www.dvbservices.com)
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 67 lists the names, under which the Private_Resource_Definer_ID is used in different DVB specifications.

Table 67: 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	TS 101 699 [i.31]

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 5.7.1. 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.

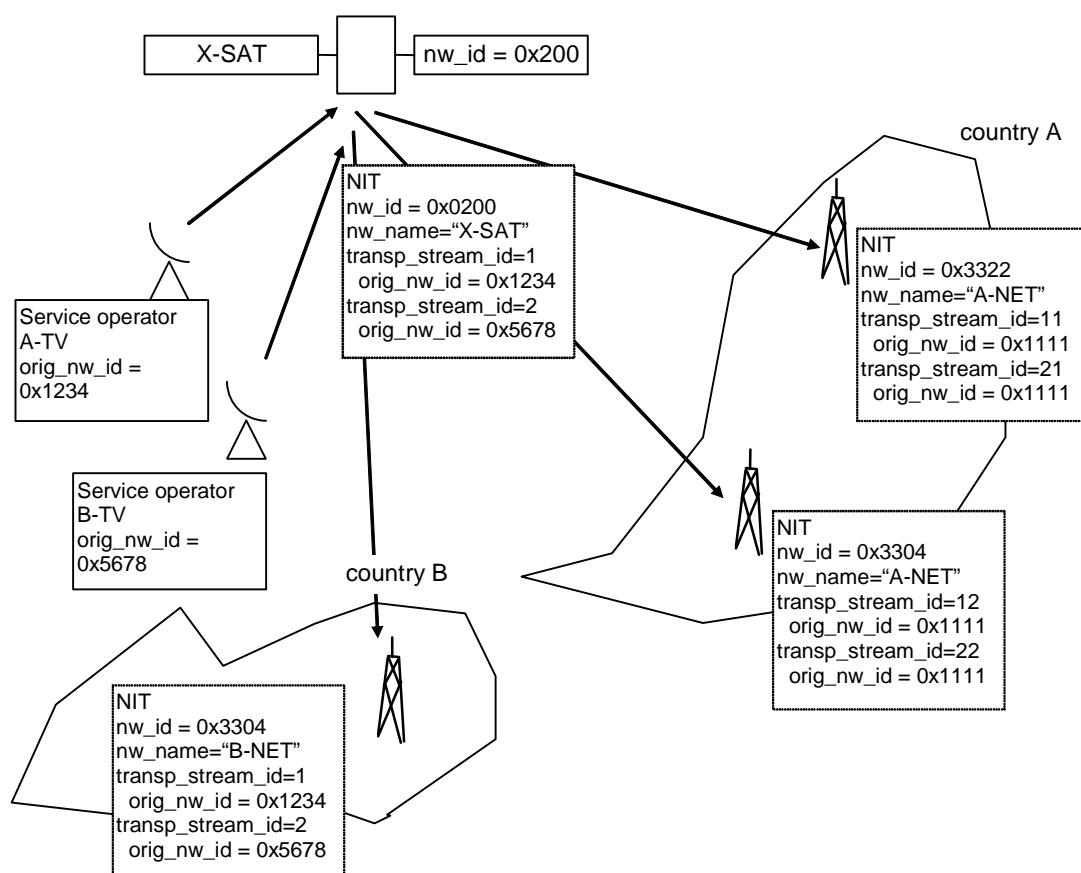


Figure A.1

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.**

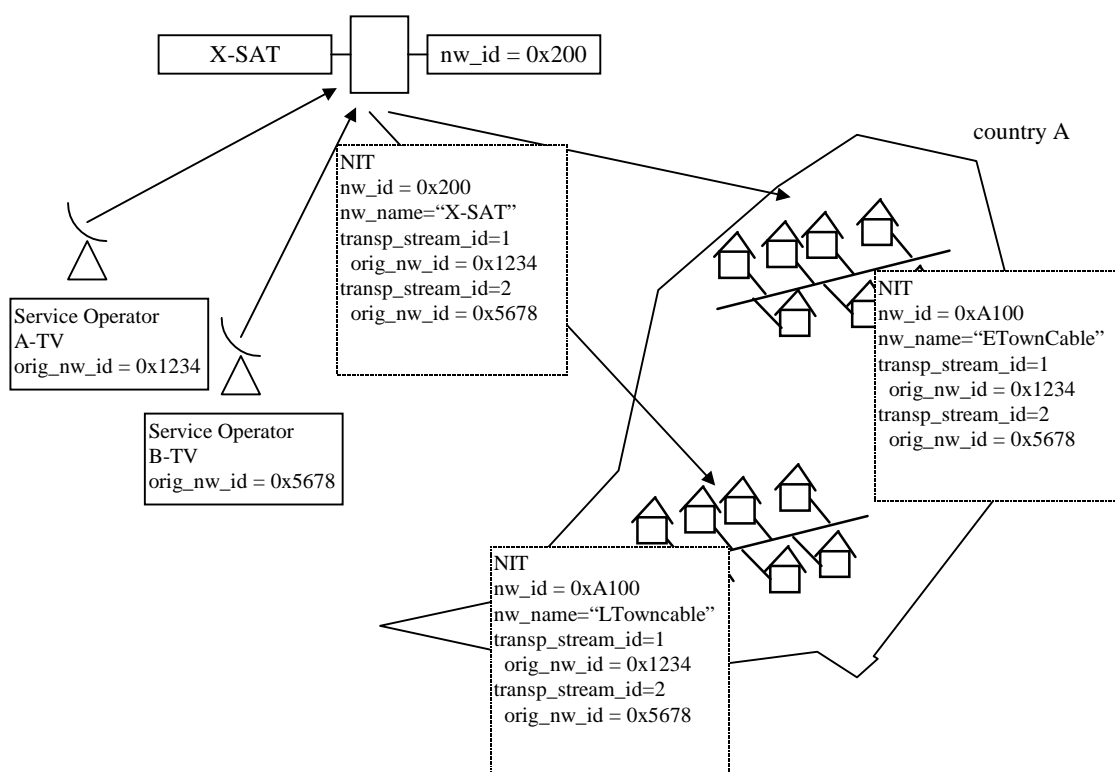


Figure A.2

History

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