

# Code Point Registry

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## Code Point Registry

### 1. SCOPE

This document is intended for authors and implementers<sup>1</sup> of MPEG-2-based standards (e.g., ATSC, SCTE, CEA, and SMPTE). It is intended to ensure harmonization of code points in specifications developed by these standards developing organizations<sup>2</sup>. To meet this goal, a database of code points has been created, hereinafter called the “Code Point Registry,” and a keeper has been identified (the Registrar) to manage:

- All syntax elements used in digital television standards for which there are values or ranges that require management.
- All MPEG syntax elements containing “MPEG User Private” ranges used in digital television standards.

This Registry is informative only; it refers to the appropriate standard that defines the specific value(s).

### 2. REFERENCES

#### 2.1 Normative References

There are none.

#### 2.2 Informative References

ATSC: “Technology Group Report on ATSC Usage of the MPEG-2 Registration Descriptor,” Doc. T3-548r1, Advanced Television Systems Committee, Washington, D.C., 9 October 2001 ([http://www.atsc.org/standards/t3\\_548r1.pdf](http://www.atsc.org/standards/t3_548r1.pdf))

ATSC: “Technology Group Report on Code Point Issues,” Doc. T3-567, Advanced Television Systems Committee, Washington, D.C., 7 February 2002 ([http://www.atsc.org/standards/t3\\_567.pdf](http://www.atsc.org/standards/t3_567.pdf))

ATSC: “Technology Group Report on Collision Avoidance for Private Fields and Ranges,” Doc. T3-549, Advanced Television Systems Committee, Washington, D.C., 9 October 2001 ([http://www.atsc.org/standards/t3\\_549.pdf](http://www.atsc.org/standards/t3_549.pdf)).

### 3. DEFINITIONS

The following terms are defined for the purpose of this document.

**ATSC code point** – A syntax element defined in an ATSC standard containing at least one ATSC-defined value. The syntax element `table_type`, defined in ATSC A/65A Section 6.2, is an example of an ATSC code point.

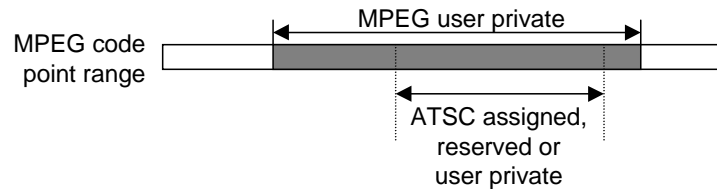
**ATSC user private** – A value or range of values of a code point listed as “user private” in an ATSC standard. If the code point is an MPEG code point, the ATSC assigned, reserved, and

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<sup>1</sup> The Registrar acknowledges that the word “user” is overworked in this document. The word “implementer” has been used here in an effort to clarify the terminology to mean an organization that sets aside and divides available code point values for work in the MPEG-2 digital television realm. It is important to point out that the entire MPEG-2 code space left for <users> has been taken by SDOs, and each has subsequently defined a subset of values for private use. Interested readers should review ATSC Technology Group Report T3-549 ([http://www.atsc.org/standards/t3\\_549.pdf](http://www.atsc.org/standards/t3_549.pdf)).

<sup>2</sup> While consideration was given to other implementers of MPEG-2 Systems (e.g., DVB and ARIB), additional harmonization work may be required to allow the co-existence of ATSC-based system information with that of other systems.

user private ranges must be a strict subset of the MPEG user private range. This relationship is shown in the diagram below.



**code point** – A syntax element in a defined standard containing at least one value defined in that standard. If a code point value is not explicitly defined, it is either “forbidden”, “reserved”, or “user private”.

**collision** – A code point value used by two or more private systems with different meaning without the context or identification necessary for receiving devices to reliably distinguish between them.

**conflict** – Synonymous with “collision”.

**MPEG code point** – A syntax element defined in an ISO/IEC MPEG standard containing at least one MPEG-defined value. The syntax element `table_id`, defined in ISO/IEC 13818-1:2000 Section 2.4.4.4, is an example of an MPEG code point.

**MPEG user private** – A value or range of values of a code point listed as “user private” in an ISO/IEC MPEG standard.

**scope** *noun* – Those instances of occurrence where a code point must be uniquely defined in order to be interpreted unambiguously by receiving devices. *verb* To bound the set of values of code points such that they are uniquely identified in order to be interpreted unambiguously by receiving devices.

**user private** – A value or range of values of a code point that may be privately defined by implementers of a particular standard. It must be possible to determine the identity of the standards body or private party specifying a user private value. In some instances, the MPEG-2 registration descriptor is used.

#### 4. CODE POINT ASSIGNMENT

The following process has been administratively established<sup>3</sup> for code point field value management for standards and related documents.

- 1) The Code Point Registry shall be maintained by ATSC on behalf of, and as a service to, participating Standards Developing Organizations (SDOs). These SDOs shall be known as the Members<sup>4</sup>.
- 2) The ATSC shall designate a staff member to serve as the Registrar, who will manage the Registry on behalf of the Members.
- 3) Each Member shall designate an individual to serve as their representative, and all activities will go through that person. Individual companies shall not be active directly. Each Member

<sup>3</sup> This process is based on the ATSC Technology Group Report, “Final Report of the ATSC T3/S8 Ad Hoc Group on Code Point Issues” (T3 Doc. #567, January 9, 2002), and subsequent discussions between ATSC and SCTE. This process may be further refined based on input from other SDOs as necessary.

<sup>4</sup> As of 11 July 2002, the Members are ATSC and SCTE.

SDO shall develop their own procedures for how code point field values are managed internally.<sup>5</sup>

- 4) The Registry shall be informative only, and refer to the standard that defines the value(s). Thus, it never requires balloting.
- 5) The Registry shall be placed on the ATSC web site in an area available to the public. Whenever a change is made to the Registry, the Registrar shall so notify the Members' representative via e-mail, or other suitable means, in a timely manner.
- 6) When a Member wishes to define a new code point field value(s), the designated Member representative shall so notify the Registrar and request registration, providing all required information except the value(s). The Registrar shall then register the field value(s), update the Registry, and inform the requesting Member of the action taken. The Registrar shall, upon presentation of all required information, complete the registration process within ten (10) business days.
- 7) Upon assignment by the Registrar, the Member SDO may use the field value(s) in its draft standard.
- 8) If the draft standard is ultimately not adopted by the requesting Member SDO, then the Member representative shall so notify the Registrar, who shall remove the field value(s) from the Registry.<sup>6</sup>
- 9) In the event that a standard developed by a Member SDO is transferred or otherwise assigned to another SDO (either a Member or non-Member) the previously assigned code point field value(s) shall move with the standard, with a note made in the Registry of the change of ownership. The Member(s) involved in such action shall notify the Registrar of the change in ownership in a timely manner.
- 10) In the event that a standard developed by a Member SDO is withdrawn, the Member representative shall inform the Registrar of the change in status and provide a recommendation with regard to possible re-use of the code point field value(s) involved. In this event, the Registrar shall not reassign the value(s) until all other code point field values in the range are used, and only after a specific coordination effort involving all Members.
- 11) Each request for a code point field value(s) is processed on a first-come, first-served basis.
- 12) Requests for, and assignment of, undefined ranges are prohibited. All values must be defined by the referenced standard.
- 13) Requests for, and assignment of, "User Private" ranges are prohibited. Use of "User Private" values require an MPEG Registration Descriptor (ATSC Doc. T3-548, [http://www.atsc.org/standards/t3\\_548r1.pdf](http://www.atsc.org/standards/t3_548r1.pdf)) and require following the guidelines given in the Collision Avoidance document (ATSC Doc. T3-549, [http://www.atsc.org/standards/t3\\_549.pdf](http://www.atsc.org/standards/t3_549.pdf)).
- 14) In the event of a conflict or disagreement among Members relating to code point field value assignment or other aspects of Registry operation, Member representatives shall form a group composed of appropriate specialists to arrive at a consensus solution.
- 15) There shall be no fees associated with use of the Registry.

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<sup>5</sup> For ATSC, existing standards shall be revised to include only the field value(s) that they normatively define. For example, A/65 would be silent on any A/65 table/descriptor field values defined by A/90 (or any other document), and instead refer the reader to the Registry. All such field values shall refer the reader to the Registry for a complete listing, but may include informative references that will facilitate reading of the standard.

<sup>6</sup> Once assigned, a code point field value cannot be withdrawn without the agreement of the SDO to whom it was issued.

## 5. ATSC CODE POINT REGISTRY

The Code Point Registry is given in Table 1. It is a living document, as the usage of code points are continually being discovered and new proposed standards are occurring.

Note that Registration Descriptor Values are not included in the Registry, as this function is already handled by SMPTE. See <http://www.smp-te-ra.org/mpegreg.html> for a list of current assignments.

### 5.1 Referenced Documents

The following documents are referenced in Table 1.

- [1] ATSC: “Digital Audio Compression (AC-3, E-AC3),” Doc. A/52B, Advanced Television Systems Committee, Washington, D.C. 14 June 2005.
- [2] ATSC: “ATSC Digital Television Standard, Parts 1 – 6 (2007),” Doc. A/53, Advanced Television Systems Committee, Washington, D.C., 3 January 2007.
- [3] ATSC: “Content Identification and Labeling for ATSC Transport,” Doc. A/57B, Advanced Television Systems Committee, Washington, D.C., 26 May 2008.
- [4] ATSC: “Harmonization with DVB SI in the use of the ATSC Digital Television Standard,” Doc. A/58, Advanced Television Systems Committee, Washington, D.C., 16 September 1996.
- [5] ATSC: “Program and System Information Protocol for Terrestrial Broadcast and Cable (Revision C) with Amendment No. 1,” Doc. A/65C, Advanced Television Systems Committee, Washington, D.C., 2 January 2006 (Amendment No. 1 dated 9 May 2006).
- [6] ISO/IEC 13818-1:2007, Coding of Moving Pictures and Associated Audio Information: systems.
- [7] ETSI TS 101 812 V 1.3.1, “DVB Multimedia Home Platform (MHP) Specification,” version 1.0.3.
- [8] ANSI/SCTE 54 2004, Digital Video Service Multiplex and Transport System for Cable Television.
- [9] ETS 300 468 V 1.8.1 (2007-10), Specification for Service Information (SI) in DVB systems.
- [10] ANSI/SCTE 27 2003, Subtitling Methods for Broadcast Cable.
- [11] ANSI/SCTE 53 2002, Methods for Asynchronous Data Services Transport.
- [12] ANSI/SCTE 19 2001, Methods for Isochronous Data Services Transport.
- [13] [Included in 2007 revision of 13818-1]
- [14] [Included in 2007 revision of 13818-1]
- [15] SMPTE 312M, Splice Points for MPEG-2 Transport Streams [archived].
- [16] ISO/IEC 13818-6:1998, Coding of Moving Pictures and Associated Audio Information: Digital Storage Media Command and Control (DSM-CC).
- [17] ISO/IEC 13818-6:1998 Amd1:2000, “Information technology — Generic coding of moving pictures and associated audio information — Part 6: Extensions for DSM-CC AMENDMENT 1: Additions to support data broadcasting”
- [18] ATSC: “ATSC Data Broadcasting Standard with Amendment No. 1 and Corrigendum No. 1 and Corrigendum No. 2,” Doc. A/90. Advanced Television Systems Committee, Washington, D.C., 26 July 2000 (Amendment 1 dated 14 May 2002; Corrigendum 1 and 2 dated 1 April 2002).

- [19] DVB SI-DAT 260 rev 12 (9/98), Data Broadcasting Specification, 2nd Edition.
- [20] ETR 211, DVB, Guidelines on implementation and usage of Service Information, 8/97.
- [21] DVB SI-DAT 382 rev 8 (10/98), Implementation Guidelines for Data Broadcasting.
- [22] ATSC: "Program Guide for Digital Television," Doc. A/55. Advanced Television Systems Committee, Washington, D.C., 3 January 1996. Note: This standard was withdrawn on 8 September 2006.
- [23] SCTE 64 1996 (withdrawn 2004) / ATSC A/56 (1996), System Information for Digital Television.
- [24] CEA-761-B, DTV Remodulator Specification with Enhanced OSD Capability, 2006.
- [25] SCTE 08 1996, Cable and Satellite Extensions to ATSC System Information Standard (withdrawn 2004).
- [26] ATSC: "Conditional Access System for Terrestrial Broadcast, Revision A with Amendment No. 1" Doc. A/70A, Advanced Television Systems Committee, Washington, D.C., 22 July 2004 (Amendment No. 1 dated 11 September 2006).
- [27] ATSC: "ATSC Parameterized Services Standard," Doc. A/71, Advanced Television Systems Committee, Washington, D.C., 26 March 2007.
- [28] ANSI/SCTE 65 2002, Service Information Delivered Out-of-Band for Digital Cable Television.
- [29] ANSI/SCTE 18 2007, Emergency Alert Messaging for Cable(also known as J-STD-042-A).
- [30] DVB-CA, ITU-R BT.1300.
- [31] United Kingdom Digital Terrestrial Television Group "D-book"
- [32] ISO/IEC 13818-6:1998 Amd2:2000, "Information technology — Generic coding of moving pictures and associated audio information — Part 6: Extensions for DSM-CC AMENDMENT 2: Additions to support synchronized download services, opportunistic data services and resource announcement in broadcast and interactive services."
- [33] EIA-775.2 (2000), Service selection information for digital storage media interoperability.
- [34] EN 301 192 V1.2.1 (1996-06), DVB specification for data broadcasting.
- [35] ANSI/SCTE 42 2002, IP Multicast for Digital MPEG Networks.
- [36] ANSI/SCTE 128 2007, AVC Video Systems and Transport Constraints for Cable Television, Society of Cable Telecommunications Engineers..
- [37] E-mail from Takeshi Kimura (NHK) to B. J. Lechner, dated July 2, 2001.
- [38] Final Report of the Ad Hoc Group on Code Point Issues, (ATSC T3/S8-452r2), Oct. 24, 2001 [work in process].
- [39] ATSC: "Synchronized/Asynchronous Trigger Standard," Doc. A/93, Advanced Television Systems Committee, Washington, D.C., 1 April 2002.
- [40] ATSC: "Data Application Reference Model Standard," Doc. A/94, Advanced Television Systems Committee, Washington, D.C., 16 August 2002."
- [41] ATSC: "Transmitter Synchronization for Terrestrial Broadcasting, Revision B," Doc. A/110B, Advanced Television Systems Committee, Washington, D.C., 24 December 2007
- [42] ANSI/SCTE 80 2002 (formerly DVS-161), In-Band Data Broadcast Standard Including Out of Band Announcements

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- [43] ANSI/SCTE 22-1 2002, "Data-Over-Cable Service Interface Specification DOCSIS 1.0 Radio Frequency Interface," Society of Cable Telecommunications Engineers.
  - [44] ATSC: "Transport Stream File System Standard," Doc. A/95, Advanced Television Systems Committee, Washington, D.C., 25 February 2003.
  - [45] CableLabs: "OpenCable™ Specifications, ETV, Enhanced TV Application Messaging Protocol 1.0," OC-SP-ETV-AM1.0-I04-070921.
  - [46] ATSC WD/90A: "Working Draft Revision of ATSC Data Broadcast Standard," work in process, Advanced Television Systems Committee, Washington, D.C.
  - [47] ATSC: "ATSC Direct-to-Home Satellite Broadcast Standard," Doc. A/81, Advanced Television Systems Committee, Washington, D.C., 20 July 2004.
  - [48] ANSI/SCTE 35 2004 (formerly DVS 253), Digital Program Insertion Cueing Message for Cable.
  - [49] ATSC: "ATSC Mobile/Handheld Digital Television Standard, Part 3 – Service Multiplex and Transport Subsystem Characteristics," Doc. A/153 Part 3:2009, Advanced Television Systems Committee, Washington, D.C., [date TBD].
  - [50] ATSC: "AVC Video Transport Subsystem Characteristics," Doc. A/72 Part 2, Advanced Television Systems Committee, Washington, D.C., 29 July 2008.
  - [51] Reserved.
  - [52] ATSC: "Software Download Data Service," Doc. A/97, Advanced Television Systems Committee, Washington, D.C., 16 November 2004.
  - [53] ANSI/SCTE 57 2003 (formerly DVS 507) System Information for Satellite Distribution of Digital Television for Cable and MMDS
  - [54] ATSC: "Advanced Common Application Platform," Doc. A/101, Advanced Television Systems Committee, Washington, D.C., 2 August 2005.
  - [55] ATSC: "PSIP Standard for Taiwan," Doc. A/68, Advanced Television Systems Committee, Washington, D.C., 11 July 2001. Note that this document was withdrawn by ATSC on 22 July 2008.
  - [56] CEA-766-B, "U.S. and Canadian Region Rating Tables (RRT) and Content Advisory Descriptors for Transport of Content Advisory Information using ATSC A/65-A Program and System Information Protocol (PSIP)," Consumer Electronics Association, Arlington, VA, 1 July 2006.
  - [57] ATSC: "ATSC Mobile/Handheld Digital Television Standard, Part 3 – Service Multiplex and Transport Subsystem Characteristics," Doc. A/153 Part 3:2009, Advanced Television Systems Committee, Washington, D.C., [date TBD].
  - [58] ATSC: "Programming Metadata Communication Protocol, Revision B," Doc. A/76B, Advanced Television Systems Committee, Washington, D.C., 14 January 2008.
  - [59] [RFC4326] Fairhurst, G. and B. Collini-Nocker, "Unidirectional Lightweight Encapsulation (ULE) for Transmission of IP Datagrams over an MPEG-2 Transport Stream (TS)", RFC 4326, December 2005 (<http://www.ietf.org/rfc/rfc4326.txt>).
  - [60] ATSC: "System Renewability Message Transport," Doc. A/98, Advanced Television Systems Committee, Washington, D.C., 3 January 2007.
  - [61] SMPTE RP 227-2006, "VC-1 Bitstream Transport Encodings"

Type	Value (hex)	Name/Description	Field Defined	Value Defined	Comments	Where Used
PID Assignments	ISO/IEC 13818-1 Assigned or Reserved					
	0x0000	ISO/IEC 13818-1 Program Association Table	[6]			
	0x0001	ISO/IEC 13818-1 Conditional Access Table	[6]			
	0x0002	ISO/IEC 13818-1 Transport Stream Description Table	[6]			
	0x0003 – 0x000F	ISO/IEC 13818-1 Reserved	[6]			
	0x00010 – 0x1FFE	ISO/IEC 13818-1 User Assigned (see assignments below)	[6]			
	0x1FFF	ISO/IEC 13818-1 Null packet	[6]			
	DVB Assigned or Reserved					
	0x0010	DVB Network Information Table, Stuffing Table (ST)	[9]			
	0x0011	DVB Service Description Table, Bouquet Association Table, ST	[9]			
	0x0012	DVB Event Information Table, ST	[9]			
	0x0013	DVB Running Status Table, ST	[9]			
	0x0014	DVB Time and Date Table, Time Offset Table, ST	[9]			
	0x0015	DVB Network Synchronization	[9]			
	0x0016 – 0x001B	DVB Reserved for future use	[4], [9]			
	0x001C	DVB Inband Signaling	[9]			
	0x001D	DVB Measurement	[9]			
	0x001E	DVB Discontinuity Information Table	[9]			
	0x001F	DVB Selection Information Table	[9]			
	ARIB Assigned or Reserved					
	0x0020 – 0x002F	ARIB Assigned or Reserved	[37]			
	ATSC/CEA/SCTE Assigned or Reserved					
	0x1FF7	PAT-E	[50]		added 25 Feb. 2004; req. by M. Eyer	
	0x1FF8	STT-PID-E	[5]		added 6 Jan. 2004; req. by M. Eyer	
	0x1FF9	PID-E (base_PID_E)	[5]		added 6 Jan. 2004; req. by M. Eyer	

	0x1FFA	ATSC Operational and Management Packets, as defined in T3/S9-131	[41]		added 25 Sept. 2002; req. by M. Weiss	
	0x1FFB	ATSC PSIP Base (System Time Table, Rating Region Table, Master Guide Table, Virtual Channel Table, Directed Channel Change Table, Directed Channel Change Selection Code Table)	[5]			
	0x1FFC	ATSC Reserved	[23]			
	0x1FFC	SCTE Network / System Information Base	[23], [25], [28]			
	0x1FFD	ATSC Reserved			previously used by [22]	
	0x1FFD	CEA OSD PES packet	[24]		added 26 Jun. 2006; req. by CEA	
	0x1FFE	DOCSIS	[43]		logged 3 Feb. 2003	
<b>Type</b>	<b>Value (hex)</b>	<b>Name/Description</b>	<b>Field Defined</b>	<b>Value Defined</b>	<b>Comments</b>	<b>PID</b>
Table IDs table_id	ISO/IEC 13818-1 Sections					
	0x00	Program Association Table (pat)	[6]			0
	0x01	Conditional Access Table (cat)	[6]			1
	0x02	TS Program Map Table (pmt)	[6]			per PAT
	0x03	TS Description Table (TSDT)	[6]			2
	0x04 – 0x37	ISO/IEC 13818 Reserved	[6]			
	0x38 – 0x3F	Defined in ISO/IEC 13818-6 (see assignments below)	[6]			
	0x40 – 0xFE	ISO/IEC 13818-1 User Private <sup>7</sup> (see assignments below)	[6]			
	0xFF	ISO/IEC 13818-1 Forbidden	[6]			
	ISO/IEC 13818-6 Sections					
	0x38	ISO/IEC 13818-6 Reserved	[16]			
	0x39	ISO reserved (see [17])				
	0x3A	DSM-CC Sections containing multi-protocol encapsulated data	[16]			per PMT
	0x3B	DSM-CC Sections containing U-N Messages, except Download Data Messages	[16]			per PMT

<sup>7</sup> See Footnote #1 on page 3.

0x3C	DSM-CC Sections containing Download Data Messages	[16]			per PMT
0x3D	DSM-CC Sections containing Stream Descriptors	[16]			per PMT
0x3E	DSM-CC Sections containing private data	[16], [19]			per PMT
0x3F	DSM-CC Addressable Sections	[17]			
DVB Service Information Tables					
0x40	network_information_section – actual_network	[9]			
0x41	network_information_section – other_network	[9]			
0x42	service_description_section – actual_transport_stream	[9]			
0x43 – 0x45	DVB Reserved	[9]			
0x46	service_description_section – other_transport_stream	[9]			
0x47 – 0x49	DVB Reserved	[9]			
0x4A	bouquet_association_section	[9]			
0x4B – 0x4D	DVB Reserved	[9]			
0x4E	event_information_section – actual_transport_stream, present/following	[9]			
0x4F	event_information_section – other_transport_stream, present/following	[9]			
0x50 – 0x5F	event_information_section – actual_transport_stream, schedule	[9]			
0x60 – 0x6F	event_information_section – other_transport_stream, schedule	[9]			
0x70	time_date_section	[9]			
0x71	running_status_section	[9]			
0x72	stuffing_section	[9]			
0x73	time_offset_section	[9]			
0x74	application_information_section	[7]	[7]	added 6 Sept. 2005	
0x75 – 0x7D	DVB Reserved	[9]			
0x7E	discontinuity_information_section	[9]			
0x7F	selection_information_section	[9]			
0x80 – 0x8F	DVB CA message sections – See ITU-R BT.1300 ref.	[30]			
ARIB					
0x80 – 0x8F	ARIB Assigned or Reserved	[37]			
ATSC Conditional Access					
0x80	CA message section, ECM	[26]			

0x81	CA message section, ECM	[26]			
0x82 – 0x8F	CA message section, EMM and CA System private	[26]			
ATSC/SCTE Tables and Messages					
0xC0	Program Information message	[25], [53]			PMT PID
0xC1	Program Name message	[25], [53]			PMT PID
0xC2	SCTE Network Information message	[23], [53]			Network PID (per PAT)
0xC2	SCTE Network Information Table (NIT)	[28]			0x1FFC
0xC3	SCTE Network Text message	[23], [53]			0x1FFC (terrestrial only, Map Name Table only) or Network PID (per PAT)
0xC3	SCTE Network Text Table (NTT)	[28]			0x1FFC
0xC4	SCTE Virtual Channel message	[23], [53]			0x1FFC (terrestrial only) or Network PID (per PAT)
0xC4	SCTE Short Form Virtual Channel Table (S-VCT)	[28]			0x1FFC
0xC5	SCTE System Time message	[23], [53]			Network PID (per PAT)
0xC5	SCTE System Time Table (STT)	[28]			0x1FFC
0xC6	SCTE subtitle_message	[10]			
0xC7	Master Guide Table (MGT)	[5]			0x1FFB
0xC7	Master Guide Table (MGT)	[28]			0x1FFC
0xC8	Terrestrial Virtual Channel Table (TVCT)	[5]			0x1FFB
0xC9	Cable Virtual Channel Table (CVCT)	[5]			0x1FFB
0xC9	Long-form Virtual Channel Table (L-VCT)	[28]			0x1FFC
0xCA	Rating Region Table (RRT)	[5]			0x1FFB
0xCA	Rating Region Table (RRT)	[28]			0x1FFC
0xCB	Event Information Table (EIT)	[5], [28]			per MGT
0xCC	Extended Text Table (ETT)	[5], [28]			per MGT
0xCD	System Time Table (STT)	[5]			0x1FFB
0xCE	Data Event Table (DET)	[18]			Per MGT

0xCF	Data Service Table (DST)	[18]			
0xD0	Program Identifier Table	[[3] <sup>8</sup>			
0xD1	Network Resources Table (NRT)	[18]			
0xD2	Long Term Service Table (LTST)	[18]			
0xD3	Directed Channel Change Table (DCCT)	[5]			0x1FFB
0xD4	DCC Selection Code Table (DCCSCT)	[5]			0x1FFB
0xD5	Selection Information Table (SIT)	[33]			
0xD6	Aggregate Event Information Table (AEIT)	[28]			
0xD7	Aggregate Extended Text Table (AETT)	[28]			
0xD8	Cable Emergency Alert	[29]			
0xD9	Aggregate Data Event Table	[42]		added 8 Jan. 2003; req. by T. Woo	
0xDA	Satellite VCT	[47]		added 8 Aug. 2003; req. by D. Shah	
0xDB - 0xDF	ATSC/SCTE Reserved	[5]			
0xE0	System Renewability Message transport	[60]		added 28 Aug. 2006; req. by M. Dolan	
ATSC Reserved (formerly A/55 Tables); shown for reference only. These are now ATSC Reserved values only.					
0xE1 – 0xE5				Previously used by [22]	
0xE6 – 0xFB	ATSC/SCTE Reserved [Conflict with ARIB]	[5], [8], [25]			
0xC0 – 0xFE	ARIB Assigned or Reserved [Conflict with ATSC/SCTE and SMPTE]	[37]			
0xFC	SCTE 35 splice_info_section	[48]		added 2 Dec 2003; req. by P. Waddell	
0xFD	SCTE Stuffing Table   [Reserved]	[25], [53]			Reserved in [53]
0xFE	SMPTE Splice Information Table [Scoped by registration descriptor]	[15]			

<sup>8</sup> Reference updated on 6 September 2005 to new version of standard.

	0xFE	SCTE Asynchronous Data Message [Conflict with SMPTE. Use constrained to stream_type]	[11]			
Type	Value (hex)	Name/Description	Field Defined	Value Defined	Comments	Where Used
Stream Types PMT stream_type	0x00	ITU-T   ISO/IEC Reserved	[6]			
	0x01	ISO/IEC 11172 Video	[6]			
	0x02	ITU-T Rec. H.262   ISO/IEC 13818-2 Video	[6]			
	0x03	ISO/IEC 11172 Audio	[6]			
	0x04	ISO/IEC 13818-3 Audio	[6]			
	0x05	ITU-T Rec. H.222.0   ISO/IEC 13818-1 private sections	[6], [21], [22]			
	0x06	ITU-T Rec. H.222.0   ISO/IEC 13818-1 PES packets containing private data	[6], [9], [18]			
	0x07	ISO/IEC 13522 MHEG	[6]			
	0x08	ITU-T Rec. H.222.0   ISO/IEC 13818-1 DSM-CC	[6]			
	0x09	ITU-T Rec. H.222.0   ISO/IEC 13818-1/11172-1 auxiliary	[6]			
	0x0A	ISO/IEC 13818-6 Multi-protocol Encapsulation	[16]			
	0x0B	ISO/IEC 13818-6 DSM-CC U-N Messages	[16], [19]			
	0x0C	ISO/IEC 13818-6 Stream Descriptors	[16]			
	0x0D	ISO/IEC 13818-6 Sections (any type, including private data)	[16], [19]			
	0x0E	ISO/IEC 13818-1 auxiliary	[16]			
	0x0F	ISO/IEC 13818-7 Audio (AAC) with ADTS transport	[14]			
	0x10	ISO/IEC 14496-2 Visual	[6]			
	0x11	ISO/IEC 14496-3 Audio with the LATM transport syntax as defined in ISO/IEC 14496-3	[6]			
	0x12	ISO/IEC 14496-1 SL-packetized stream or FlexMux stream carried in PES packets	[6]			
	0x13	ISO/IEC 14496-1 SL-packetized stream or FlexMux stream carried in ISO/IEC 14496_sections	[6]			
0x14	ISO/IEC 13818-6 DSM-CC Synchronized Download Protocol	[32]				
0x15	Metadata carried in PES packets	[6]			0x15	
0x16	Metadata carried in metadata_sections	[6]				
0x17	Metadata carried in ISO/IEC 13818-6 Data Carousel	[6]				

0x18	Metadata carried in ISO/IEC 13818-6 Object Carousel	[6]			
0x19	Metadata carried in ISO/IEC 13818-6 Synchronized Download Protocol	[6]			
0x1A	IPMP stream (defined in ISO/IEC 13818-11, MPEG-2 IPMP)	[6]			
0x1B	AVC video stream as defined in ITU-T Rec. H.264   ISO/IEC 14496-10 Video	[6]			
0x1C – 0x7F	ITU-T Rec. H.222.0   ISO/IEC 13818-1 Reserved	[6]			
0x80	DigiCipher® II video	[25], [53]			
0x81	ATSC A/53 audio	[2], [53]			
0x82	SCTE Standard Subtitle	[10], [25], [53]			
0x83	SCTE Isochronous Data   Reserved	[12], [25], [53]			Reserved in [53]
0x84	ATSC Reserved. (The extent of possible field use of this value is unknown, but is expected to be clarified in a future revision of the Code Point Registry.) Conflict - SCTE reserved	[53]		entered 2 March 2004; req. by M. Eyer	Reserved in [53]
0x85	ATSC Program Identifier , SCTE Reserved	[3] <sup>9</sup> , [53]			Reserved in [53]
0x86	SCTE 35 splice_information_table   [Cueing] (also used by SMPTE 312M)	[48], [15]		modified 3 Dec. 2003; req. by S. Narasimhan	Cueing in [53]
0x87	E-AC-3	[50]		added 25 Feb. 2004; req. by M. Eyer	
0x87-0x9F	SCTE Reserved	[53]			
0x88	ATSC Reserved				
0x89	ATSC Reserved	[2], [5]			
0x8A – 0x8F	ATSC Reserved			entered 2 March 2004; req. by M. Eyer	
0x90	DVB stream_type value for Time Slicing / MPE-FEC			added 2 Dec. 2003; req by S. Narasimhan	

<sup>9</sup> Reference updated on 6 September 2005 to new version of standard.

	0x91	IETF Unidirectional Link Encapsulation (ULE)	[59]		req. 22 Aug. 2005 by G. Fairhurst	
	0x92 – 0x94	ATSC Reserved				
	0x95	ATSC Data Service Table, Network Resources Table	[18]			
	0x96 – 0xC1	ATSC Reserved	[2], [5]		updated 5 Apr. 2005	
	0xA0	(Conflict: DVS-022 states 0xA0 used by non-broadcast applications but does not give reference.) SCTE [IP Data]	[23], [53]			IP Data in [53]
	0xC2	ATSC synchronous data stream [not within ATSC reserved area]   [Isochronous Data]	[18], [12], [53]			Isoc. Data in [12], [53]
	0xC3	SCTE Asynchronous Data	[11], [53]			
	0xC4 – 0xE9	ATSC User Private Note: MPEG [6] lists the range 0xC0 – 0xFF “User Private”. See T3-548 and T3-549 for more information: <a href="http://www.atsc.org/standards/other_docs.php">http://www.atsc.org/standards/other_docs.php</a>	[2]		updated 1 Mar. 2005; req. my M. Eyer	
	0xEA	VC-1 Elementary Stream per RP227	[61]			
	0xEB – 0xFF					
Type	Value (hex)	Name/Description	Field Defined	Value Defined	Comment	Where Used
Program and Program Element Descriptors descriptor_tag	ISO/IEC 13818-1 Descriptors					
	0x00 – 0x01	ISO/IEC 13818 Reserved	[6]			
	0x02	video_stream_descriptor	[6]			PMT
	0x03	audio_stream_descriptor	[6]			PMT
	0x04	hierarchy_descriptor	[6]			PMT
	0x05	registration_descriptor	[6]			PMT
	0x06	data_stream_alignment_descriptor	[6]			PMT
	0x07	target_background_grid_descriptor	[6]			PMT
	0x08	video_window_descriptor	[6]			PMT
	0x09	CA_descriptor	[6]			PMT, CAT
	0x0A	ISO_639_language_descriptor	[6]			PMT
	0x0B	system_clock_descriptor	[6]			PMT
	0x0C	multiplex_buffer_utilization_descriptor	[6]			PMT
	0x0D	copyright_descriptor	[6]			PMT
	0x0E	Maximum_bitrate_descriptor	[6]			PMT

0x0F	Private_data_indicator_descriptor	[6]			PMT
0x10	smoothing_buffer_descriptor	[6]			PMT
0x11	STD_descriptor	[6]			PMT
0x12	IBP_descriptor	[6]			PMT
0x13	DSM-CC carousel_identifier_descriptor	[13], [16], [21]			
0x14	DSM-CC association_tag_descriptor	[13], [16], [18]			
0x15	DSM-CC deferred_association_tags_descriptor	[13], [16]			
0x16	ISO/IEC 13818-6 reserved	[13], [16]			
0x17	NPT Reference descriptor	[13], [16]			
0x18	NPT Endpoint descriptor	[13], [16]			
0x19	Stream Mode descriptor	[13], [16]			
0x1A	Stream Event descriptor	[13], [16]			
0x1B	MPEG-4_video_descriptor	[6]			
0x1C	MPEG-4_audio_descriptor	[6]			
0x1D	IOD_descriptor	[6]			
0x1E	SL_descriptor	[6]			
0x1F	FMC_descriptor	[6]			
0x20	External_ES_ID_descriptor	[6]			
0x21	MuxCode_descriptor	[6]			
0x22	FmxBufferSize_descriptor	[6]			
0x23	MultiplexBuffer_descriptor	[6]			
0x24 – 0x35					
0x36	Metadata_content_descriptor	[6]			
0x37	Metadata_location_descriptor	[6]			
0x3A – 0x3F	ISO/IEC 13818 Reserved	[13],[6]			
0x40 – 0xFF	User Private	[6]			
DVB Descriptors [9]					
0x00	Reserved	[34]			Data carousel
0x01	Type	[34]			Data carousel
0x02	Name	[34]			Data carousel
0x03	Info	[34]			Data carousel
0x04	Module_link	[34]			Data carousel

0x05	CRC32	[34]			Data carousel
0x06	Location	[34]			Data carousel
0x07	Est_download_time	[34]			Data carousel
0x08	Group_link	[34]			Data carousel
0x09	Compressed_module	[34]			Data carousel
0x0A – 0x7F	Reserved for future use by DVB	[34]			Data carousel
0x80 – 0xFF	Private descriptors	[34]			Data carousel
0x40	network_name_descriptor				
0x41	service_list_descriptor				
0x42	stuffing_descriptor				
0x43	satellite_delivery_system_descriptor				
0x44	cable_delivery_system_descriptor				
0x45	reserved for future use				
0x46	reserved for future use				
0x47	bouquet_name_descriptor				
0x48	service_descriptor				
0x49	country_availability_descriptor				
0x4A	linkage_descriptor				
0x4B	NVOD_reference_descriptor				
0x4C	time_shifted_service_descriptor				
0x4D	short_event_descriptor				
0x4E	extended_event_descriptor				
0x4F	time_shifted_event_descriptor				
0x50	component_descriptor				
0x51	mosaic_descriptor				
0x52	stream_identifier_descriptor	[9], [15]			
0x53	CA_identifier_descriptor				
0x54	content_descriptor				
0x55	parental_rating_descriptor				
0x56	teletext_descriptor				
0x57	telephone_descriptor				
0x58	local_time_offset_descriptor				
0x59	subtitling_descriptor				
0x5A	terrestrial_delivery_system_descriptor				

0x5B	multilingual_network_name_descriptor				
0x5C	multilingual_bouquet_name_descriptor				
0x5D	multilingual_service_name_descriptor				
0x5E	multilingual_component_descriptor				
0x5F	private_data_specifier_descriptor				
0x60	service_move_descriptor				
0x61	short_smoothing_buffer_descriptor				
0x62	frequency_list_descriptor				
0x63	partial_transport_stream_descriptor				
0x64	data_broadcast_descriptor				
0x65	CA_system_descriptor				
0x66	data_broadcast_id_descriptor				
0x67	???	[9] draft?			
0x68	???	[9] draft?			
0x69	???	[9] draft?			
0x6A	ac-3_descriptor	[9] draft 2/1/99			
0x6B – 0x7F	DVB Reserved				
ATSC/SCTE Descriptors					
0x52	SCTE 35 Stream Identifier Descriptor	[48]		added 2 Dec. 2003; req. by P. Waddell	
0x60	ACAP-X Application Descriptor <sup>10</sup>	[54]		added 29 Aug. 2005 per TSG-644r3	
0x61	ACAP-X Application Location Descriptor <sup>10</sup>	[54]		added 29 Aug. 2005 per TSG-644r3	
0x62	ACAP-X Application Boundary Descriptor <sup>10</sup>	[54]		added 29 Aug. 2005 per TSG-644r3	
0x80	Stuffing_descriptor	[5], [25], [28], [53]			Anywhere
0x81	AC3_audio_descriptor	[1], [28], [53]			PMT, EIT

<sup>10</sup> Note: A descriptor with this tag is defined in ATSC systems only when used as part of a table section with tag=0x74.

0x82	SCTE Frame_rate_descriptor	[25], [53]			PMT
0x83	SCTE Extended_video_descriptor	[25], [53]			PMT
0x84	SCTE Component_name_descriptor	[25], [53]			PMT
0x85	ATSC program_identifier	[3] <sup>11</sup> , [5], [25]			
0x86	Caption_service_descriptor	[5], [28], [57]			PMT, EIT
0x87	Content_advisory_descriptor	[5], [28], [57]			PMT, EIT
0x88	ATSC CA_descriptor	[26]			VCT, EIT
0x89	ATSC Descriptor_tag	[39]			
0x8A	SCTE 35 cue identifier descriptor	[48]		added 2 Dec. 2003; req. by P. Waddell	
0x8B	ATSC/SCTE Reserved	[2], [25]			
0x8C	TimeStampDescriptor	[54]		added 15 Dec. 2004; req. by C. Smithpeters	
0x8D – 0x8F	ATSC/SCTE Reserved	[2], [25]			
0x90	SCTE Frequency_spec_descriptor	[25], [53]			
0x91	SCTE Modulation_params_descriptor	[25], [53]			
0x92	SCTE Transport_stream_id_descriptor	[25], [53]			
0x93	SCTE Revision detection descriptor	[28]			NIT, NTT, S-VCT
0x94	SCTE Two part channel number descriptor	[28]			S-VCT
0x95	SCTE Channel properties descriptor	[28]			S-VCT
0x96	SCTE Daylight Savings Time Descriptor	[28]			STT
0x97	SCTE_adaptation_field_data_descriptor()	[36]		req. 18 Jun. 2007 by T. Russell	
0x98 – 0x9F	SCTE Reserved	[25], [28]			
0xA0	extended_channel_name_descriptor	[5], [28]			VCT
0xA1	ATSC service_location_descriptor	[5]			VCT
0xA2	time_shifted_service_descriptor	[5], [28]			VCT

<sup>11</sup> Reference updated on 5 April 2005 to new version of standard.

0xA3	component_name_descriptor	[5], [28]			PMT
0xA4	ATSC data_service_descriptor	[18]			VCT
0xA5	ATSC PID Count descriptor	[18]			???
0xA6	ATSC Download descriptor	[18]			???
0xA7	ATSC Multiprotocol Encapsulation descriptor	[18]			???
0xA8	ATSC dcc_departing_request_descriptor	[5]			???
0xA9	ATSC dcc_arriving_request_descriptor	[5]			???
0xAA	ATSC rc_descriptor	[5] <sup>12</sup>			PMT,EIT
0xAB	ATSC Genre descriptor	[5]		added 1 Mar. 2005; req. by R. Chernock	EIT
0xAC	SCTE MAC Address List	[35]			
0xAD	ATSC private information descriptor	[2], [57]			
0xAE	ATSC compatibility wrapper descriptor	[40]		added 22 Aug. 2002; req. by M. Dolan	
0xAF	ATSC broadcaster policy descriptor	[40]		added 22 Aug. 2002; req. by M. Dolan	
0xB0	ATSC service name descriptor	[40]		added 22 Aug. 2002; req. by M. Dolan	
0xB1	ATSC URI descriptor	[40]		added 22 Aug. 2002; req. by M. Dolan	
0xB2	ATSC enhanced signaling descriptor	[50]		added 25 Feb. 2004; req. by M. Eyer	
0xB3	ATSC M/H string mapping descriptor	[57]		added 1 Oct. 2008; req. by R. Chernock	
0xB4	ATSC Module Link descriptor	[18]			
0xB5	ATSC CRC32 descriptor	[18]			
0xB6	ATSC Content Identifier Descriptor	[3]		added 22 July 2003; req. by M. Dolan	

<sup>12</sup> Reference updated on 5 April 2005 to new version of standard.

0xB7	ModuleInfoDescriptor	[52]		added 17 May 2004; req. by M. Dolan	
0xB8	ATSC Group Link descriptor	[18]			
0xB9	ATSC Time Stamp descriptor	[44]		added 24 Apr. 2003; req. by M. Dolan	
0xBA	ScheduleDescriptor	[52]		added 17 May 2004; req. by M Dolan	
0xBB	Component list descriptor	[27]		added 29 Mar. 2007; req. by M. Eyer	
0xBC	ATSC M/H component descriptor	[57]		added 1 Oct. 2008; req. by R. Chernock	
0xBD	ATSC M/H rights issuer descriptor	[57]		added 1 Oct. 2008; req. by R. Chernock	
0xBE	ATSC M/H current program descriptor	[57]		added 1 Oct. 2008; req. by R. Chernock	
0xBF	ATSC M/H original service identification descriptor	[57]		added 1 Oct. 2008; req. by R. Chernock	
0xC0	protection_descriptor	[49]		added 23 June 2009; req. by R. Chernock	
0xC1	MH_SG_bootstrap_descriptor	[49]		added 23 June 2009; req. by R. Chernock	
<b>CableLabs Descriptors</b>					
0xA1	etv_bif_platform_descriptor()	[45]		added 27 May 2009; req. CableLabs	
0xA2	etv_integrated_signaling_descriptor()	[45]		added 27 May 2009; req. CableLabs	

	0xE0	etv_application_information_descriptor()	[45]		added 27 May 2009; req. CableLabs	
	0xE1	etv_media_time_descriptor()	[45]		added 27 May 2009; req. CableLabs	
	0xE2	etv_stream_event_descriptor()	[45]		added 27 May 2009; req. CableLabs	
	0xE3	etv_application_descriptor()			added 29 May 2009; req. CableLabs	
Type	Value (hex)	Name/Description	Field Defined	Value Defined	Comments	Where Used
DSM-CC resourceDescriptorType	0x0000	ISO/IEC 13818-6 reserved	[16]			
	0x0001 – 0x0013	Defined in ISO/IEC 13818-6, table4-73	[16]			
	0x0014	IPV6Resource (conflicts with ISO/IEC 13818-6, but proposed as DSM-CC Amendment)	[18]			
	0x0015	deferredMPEGProgram (conflicts with ISO/IEC 13818-6, but proposed as DSM-CC Amendment)	[18]			
	0x0014 – 0x07FFD	ISO/IEC 13818-6 reserved	[16]			
	0x7FFE – 0x7FFF	Defined in ISO/IEC 13818-6, table4-73	[16]			
	0x8000 – 0xFFFE	User Defined	[16]			
	0xFFFF	Owner of UserDefined resource type	[16]			
DST app_id_description	0x0000	UUID	[18]	[40]	added 22 August 2002; req. by M. Dolan	
VCT source_id	0x0000	ATSC reserved (For CVCT = source is not identified <sup>13</sup> )	[5]			
	0x0001 – 0x0FFF	User Defined (Transport Stream unique)	[5]			
	0x1000 – 0xFFFF	ATSC reserved	[5]			
MGT table_type	0x0000	Terrestrial VCT with current_next_indicator=1	[5]			
	0x0001	Terrestrial VCT with current_next_indicator=0	[5]			

<sup>13</sup> Besides source\_id 0x0000, the value 0xFFFF0 also has a special meaning in cable applications. This value is the source\_id used to identify the virtual channel conveying a DSM-CC data carousel of software upgrades (see OpenCable Common Download specification).

0x0002	Cable VCT with current_next_indicator=1	[5],[28]		
0x0003	Cable VCT with current_next_indicator=0	[5],[28]		
0x0004	Channel ETT	[5]		
0x0005	DCCSCT	[5]		assigned 16 Jul. 2002; req. by M. Eyer
0x0006	LTST	[46]		assigned 22 July 2003; req. by M. Eyer; see also 0x1180 below
0x0007 – 0x00FF	(Reserved for future ATSC use)	[5]		
0x0010	Short-form VCT – VCM Subtype	[28]		
0x0011	Short-form VCT – DCM Subtype	[28]		
0x0012	Short-form VCT – ICM Subtype	[28]		
0x0020	Network Information Table - CDS Table Subtype	[28]		
0x0021	Network Information Table - MMS Table Subtype	[28]		
0x0030	Network Text Table – SNS Subtype	[28]		
0x0100 – 0x017F	EIT-0 to EIT-127	[5]		
0x0180 – 0x01FF	(Reserved for future ATSC use)	[5]		
0x0200 – 0x027F	event ETT-0 to event ETT-127	[5]		
0x0280 – 0x0300	(Reserved for future ATSC use)	[5]		
0x0301 – 0x03FF	RRT with rating_region 1-255	[5], [28]		
0x0400 – 0x0FFF	(User private)	[5]		
0x1000 – 0xFFFF	(Reserved for future ATSC use)	[5]		
0x1000 – 0x10FF	Aggregate Extended Information Table with MGT_tag 0 to 255	[28]		
0x1100 – 0x11FF	SCTE Aggregate Extended Text Table with MGT_tag 0 to 255	[28]		
0x1180	Long Term Service Table <sup>14</sup>	[18]		
0x1200 – 0x127F	Extended Text Table for DET	[18]		
0x1300 – 0x137F	Data Event Table	[18]		

<sup>14</sup> *Note:* Users are cautioned that there is a conflict in the assigned value for the MGT table\_type identifying the LTST (Section 11.7). ANSI/SCTE 65 2002 assigned MGT table\_type values for the Aggregate Extended Text Table (AETT) to the range 0x1100 through 0x11FF, while the current version of A/90 indicates the MGT table\_type for the LTST is value 0x1180. A/90 is in the process of being revised to change the MGT table\_type for the LTST to value 0x0006.

	0x1380 – 0x13FF	(Reserved for future ATSC use)	[5]		
	0x1400 – 0x14FF	DCCT (with dcc_id 0x00 – 0xFF)	[5]		added 16 Jul. 2002; req. by M. Eyer
	0x1500 – 0x157F	Aggregate Data Event Table	[42]		added 8 Jan. 2003; req. by T. Woo
	0x1580 – 0x15FF	Reserved			
	0x1600 – 0x16FF	Satellite VCT	[47]		added 12 Aug. 2003; req. by M. Eyer
protocol_encapsulation	0x00 – 0x0E	Data Broadcast Encapsulation Protocol	[18]		added 24 Apr. 2003; req. by M. Dolan
	0x0F	TSFS Encapsulation Protocol	[44]		added 24 Apr. 2003; req. by M. Dolan
selector_type	0x101 – 0x108	Data Broadcast Selector Type	[18]		added 24 Apr. 2003; req. by M. Dolan
	0x109	carousel_id	[44]		added 24 Apr. 2003; req. by M. Dolan
A/65 VCT service_type	0x01	Analog television channels	[5]		added 17 May 2004
	0x02	ATSC_digital_television	[5]		added 17 May 2004
	0x03	ATSC_audio	[5]		added 17 May 2004
	0x04	ATSC_data_only_service	[5]		added 17 May 2004
	0x05	Software Download	[52]		added 17 May 2004; req. by M. Dolan
	0x06	Unassociated/Small Screen Service	[5]		added 8 Apr. 2005
	0x07	Parameterized Services	[27]		
	0x08 – 0x3F	ATSC reserved	[5]		updated 8 Apr. 2005

Type	Value	Name/Description	Field Defined	Value Defined	Comments	Where Used
PmcpMessage originType <sup>15</sup>	Automation		[58]		req. 17 Mar. 2005 by G. Jones	
	Conditional_Access		[58]		req. 17 Mar. 2005 by G. Jones	
	MPEG_Control		[58]		req. 17 Mar. 2005 by G. Jones	
	Program_Management		[58]		req. 17 Mar. 2005 by G. Jones	
	Table_Generator		[58]		req. 17 Mar. 2005 by G. Jones	
	Traffic		[58]		req. 17 Mar. 2005 by G. Jones	
	Listing_Service		[58]		req. 17 Mar. 2005 by G. Jones	
	Metadata_Extractor		[58]		req. 17 Mar. 2005 by G. Jones	
	Table_Extractor		[58]		req. 17 Mar. 2005 by G. Jones	
	Data_Server		[58]		req. 5 Jul. 2006 by A. Allison	
	Transcoder		[58]		req. 5 Jul. 2006 by A. Allison	
	Content_Distribution		[58]		req. 5 Jul. 2006 by A. Allison	
	Asset_Management		[58]		req. 5 Jul. 2006 by A. Allison	

<sup>15</sup> Note that originType is the encoding of the PMCP Device Type in the schema. See Section 5.5 and Table 5.1 of [58]

	Sales_System		[58]		Req. 5 Jun. 2007 by C. Lennon	
OM_type	0x00 – 0x1F	Distributed Transmission packet	[41]		req. 28 Jun. 2007 by M. Dolan	

## 6. RATING REGION TABLE

The ATSC is the Registration Authority for the assignment and maintenance of the rating\_region field within the PSIP Rating Region Table. Rating\_region values are granted per a process approved by the ATSC Executive Committee on 27 June 2000. The ATSC President is responsible for requesting the assignment of a new rating\_region value, notifying the Board, and waiting 14 days for the Board to review the assignment before the proposed assignment becomes official.

Type	Value (hex)	Name/Description	Field Defined	Value Defined	Comments	Where Used
RRT rating_region	0x01	U.S. Rating Region	[5]	[56]		
	0x02	Canadian Rating Region	[5]	[56]		
	0x03	Taiwan Rating Region	[5]	[55]		
	0x04	South Korean Rating Region	[5]		investigating the Korean document to reference	
	0x05	Downloadable U.S. (50 states + possessions) rating system	[5]		Added 17 Mar. 2005 by req. of CEA. Revised 18 Apr. 2006 by req. of CEA.	