2010-12-14

Withdrawal of SMPTE RP 291-2009

Assigned Ancillary Identification Codes

SMPTE RP 291-2009 is withdrawn and superseded by SMPTE ST 291:2010. All the information is now a register defined by the standard, so there is no longer a need or use for the RP.

RP 291-2009
Revision of RP 291-2006

SMPTE RECOMMENDED PRACTICE

Assigned Ancillary Identification Codes

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Approved
March 18, 2009

Foreword

SMPTE (the Society of Motion Picture and Television Engineers) is an internationally-recognized standards developing organization. Headquartered and incorporated in the United States of America, SMPTE has members in over 80 countries on six continents. SMPTE's Engineering Documents, including Standards, Recommended Practices and Engineering Guidelines, are prepared by SMPTE's Technology Committees. Participation in these Committees is open to all with a bona fide interest in their work. SMPTE cooperates closely with other standards-developing organizations, including ISO, IEC and ITU.

SMPTE Engineering Documents are drafted in accordance with the rules given in Part XIII of its Administrative Practices.

SMPTE Recommended Practice RP 291 was prepared by Technology Committee 30MR.

Intellectual Property

At the time of publication no notice had been received by SMPTE claiming patent rights essential to the implementation of this Recommended Practice. However, attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. SMPTE shall not be held responsible for identifying any or all such patent rights.

1 Scope

This Recommended Practice provides an informative list of all assigned Ancillary Identification Codes. Revisions to add codes are following rules specified in SMPTE 291M Annex E. This method provides updated information to implementers on a timely basis.

"The codes listed in this Recommended Practice are used under the provisions of SMPTE 291M, “Ancillary Data Packet and Space Formatting”, to specify the header information for payloads defined in documents developed by SMPTE and other standards organizations. Applications utilizing ancillary data as defined by SMPTE 291M are expected to include their assigned ID values.

Note: Tables 1 and 2 of this document are registers and are published on line at SMPTE RA < www.smpte-ra.org>. Readers are encouraged to check the online site for the current registered values.

2 Conformance Notation

Normative text is text that describes elements of the design that are indispensable or contains the conformance language keywords: "shall", "should", or "may". Informative text is text that is potentially helpful to the user, but not indispensable, and can be removed, changed, or added editorially without affecting interoperability. Informative text does not contain any conformance keywords.

All text in this document is, by default, normative, except: the Introduction, any section explicitly labeled as "Informative" or individual paragraphs that start with "Note:"

The keywords "shall" and "shall not" indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted.

The keywords, "should" and "should not" indicate that, among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited.

The keywords "may" and "need not" indicate courses of action permissible within the limits of the document.

The keyword “reserved” indicates a provision that is not defined at this time, shall not be used, and may be defined in the future. The keyword “forbidden” indicates “reserved” and in addition indicates that the provision will never be defined in the future.

A conformant implementation according to this document is one that includes all mandatory provisions ("shall") and, if implemented, all recommended provisions ("should") as described. A conformant implementation need not implement optional provisions ("may") and need not implement them as described.

3 Normative References

The following standard contains provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

SMPTE 291M-2006, Television – Ancillary Data and Packet Space Formatting

4 Assigned Ancillary ID Codes for Ancillary Packs with Defined Payload Formats

4.1 Table 1and 2 are registers. Currently assigned values may be viewed at <www.smpte-ra.org>. The printed version of this table will be updated via amendments or revisions to this document.

4.2 Entries to Tables 1 and 2 may be made by following the rules outlined in Annex A.

Table 1 – Assigned ancillary ID codes Type 1 data

DID	Used where	Application
00	S291	Undefined data
80	S291	Packet marked for deletion
88	S291	Start packet
84	S291	End packet
F4	RP165	Error Detection and Handling (HANC space)
FF	S272	Audio Data in HANC space (SDTV)
FE	S272	Audio Data in HANC space (SDTV)
FD	S272	Audio Data in HANC space (SDTV)
FC	S272	Audio Data in HANC space (SDTV)
FB	S272	Audio Data in HANC space (SDTV)
FA	S272	Audio Data in HANC space (SDTV)
F9	S272	Audio Data in HANC space (SDTV)
F8	S272	Audio Data in HANC space (SDTV)
EF	S272	Audio Data in HANC space (SDTV)
EE	S272	Audio Data in HANC space (SDTV)
ED	S272	Audio Data in HANC space (SDTV)
EC	S272	Audio Data in HANC space (SDTV)
E7	S299	Audio data in HANC space (HDTV)
E6	S299	Audio data in HANC space (HDTV)
E5	S299	Audio data in HANC space (HDTV)
E4	S299	Audio data in HANC space (HDTV)
E3	S299	Audio data in HANC space (HDTV)
E2	S299	Audio data in HANC space (HDTV)
E1	S299	Audio data in HANC space (HDTV)
E0	S299	Audio data in HANC space (HDTV)
F0	S315	Camera position (HANC or VANC space)

Note: S – Standard

RP – Recommended Practice

DID: These values are copies from standards that define the specific applications and are normative to the given standard. Values shown are expressed in hexadecimal format

[ ]: Specifications in [square brackets] are temporary to be replaced by final values when available. This technique is necessary to reserve values while supporting documents are being approved.

Table 2 – Assigned ancillary ID codes Type 2 data with defined packet payload

DID [hex]	SDID [hex]	Used where	Application
00	00	S291	Undefined data
80	00	S291	Packet marked for deletion
88	00	S291	Start packet
84	00	S291	End packet
08	08	S353	MPEG recoding data, HANC+ VANC space
40	01	S305	SDTI transport in active frame space
40	02	S348	HD-SDTI transport in active frame space
40	04	S427	Link Encryption Message 1
40	05	S427	Link Encryption Message 2
40	06	S427	Link Encryption Metadata
41	01	S352M	Payload Identification , VANC space
41	05	S2016-3	AFD and Bar Data
41	06	S2016-4	Pan-Scan Data
41	07	S2010	ANSI/SCTE 104 messages
41	08	S2031	DVB/SCTE VBI data
43	01	ITU-R BT.1685	Structure of inter-station control data conveyed by ancillary data packets
43	02	RDD 8	Subtitling Distribution packet (SDP)
43	03	RDD 8	Transport of ANC packet in an ANC Multipacket
44	04	RP214	KLV Metadata transport in VANC space
44	14	RP214	KLV Metadata transport in HANC space
44	44	RP223	Packing UMID and Program Identification Label Data into SMPTE 291M Ancillary Data Packets
45	01	S2020-1	Compressed Audio Metadata
45	02	S2020-1	Compressed Audio Metadata
45	03	S2020-1	Compressed Audio Metadata
45	04	S2020-1	Compressed Audio Metadata
45	05	S2020-1	Compressed Audio Metadata
45	06	S2020-1	Compressed Audio Metadata
45	07	S2020-1	Compressed Audio Metadata
45	08	S2020-1	Compressed Audio Metadata
45	09	S2020-1	Compressed Audio Metadata
50	01h	RDD 8	WSS data per RDD 8
51	01	RP215	Film Codes in VANC space
60	60	S12M-2	Ancillary Time Code in VANC space
61	01	S334-1	EIA 708B Data mapping into VANC space
61	02	S334-1	EIA 608 Data mapping into VANC space
62	01	RP207	Program Description in VANC space
62	02	S334-1	Data broadcast (DTV) in VANC space
62	03	RP208	VBI Data in VANC space

Note: S – Standard

RP – Recommended Practice

DID or SDID: These values are copies from standards that define the specific applications and are normative to the given standard. Values shown are expressed in hexadecimal format

[ ]: Specifications in [square brackets] are temporary to be replaced by final values when available. This technique is necessary to reserve values while supporting documents are being approved.

Annex A (Normative)
Register Protocol

A.1 Tables 1 and 2 of this RP are registers and may have values added from time to time. Readers are encouraged to check the SMPTE RA web site in order to obtain the latest values that have been registered.

A.2 Entries to Tables 1 and 2 shall be made by one of two methods:

1) SMPTE technology committee's may add values from time to time based upon normative value definitions in other SMPTE Standards, RPs, or RDDs. Values will be added with square brackets when the normative document reaches the FCD level of approval. Square brackets will be removed at the point when the document is elevated to DP. These levels of approval are defined in the SMPTE Administrative Practices.

   Proposed additions will be added by the chairman of the technology committee responsible for this Recommended Practice in consultation with the Engineering director following the protocol outlined below. In some cases where the request for values is in conflict with SMPTE documents under development the request may be reviewed by the engineering director.

2) Other organizations, or SDOs, may request values by following the following protocol (unless covered by agreements between SMPTE and recognized SDOs).

Entities permitted to request values	Any entity with a interest in the field
URL for Web Browser access	http://smpte-ra.org/S291/S291_reg.html
SMPTE Committee assigned for maintenance	As directed by the Standards Committee.
Deletion provisions	Values shall not be deleted once square brackets are removed
SMPTE Contact information	All communications shall be addressed to SMPTE.
Required Requesting Entity Information	Entity name, address, contact person name, telephone and fax numbers and e-mail address of contact person
Requirements for Inclusion in the register	The requesting entity may request a value during the development of a document/Standard/Recommendation. The chairman of the technology committee responsible for this RP, in consultation with the engineering director shall assign a value based upon submission of draft or approved documents that clearly identifies the usage of the assigned value. If the document submitted is a draft or in the proposal stage then square brackets shall be placed around the proposed values. Square brackets will only be removed once a final version of the document/Standard/or Recommendation has been received by SMPTE Engineering HQ's. Square brackets shall only be valid for 9 months from the date of posting. If no approved document or confirmation is received by SMPTE Headquarters, the square brackets will be removed and the values will be available for other use. Entities requesting values shall provide SMPTE Headquarters with documentation indicating normative value definition. SMPTE shall have the right to publish the documentation, and to provide copies of the documentation on request to any potential user. SMPTE reserves the right to reject requests if the supplied documen-tation does not allow for independent implementation of the use. The requesting entity shall grant to SMPTE copyright of the document to be supplied to any request from an interested party.

A.3 The register is simply a record of the use of the values, the normative definition of value use shall be contained in the associated document.

Annex B (Informative)
Bibliography

SMPTE 12M-2-2008, Television – Transmission of Time Code in the Ancillary Data Space

SMPTE 272M-2004, Television – Formatting AES/EBU Audio and Auxiliary Data into Digital Video Ancillary Data Space

SMPTE 299M-2004, Television – 24-Bit Digital Audio Format for HDTV Bit-Serial Interface

SMPTE 305M-2005, Television – Serial Data Transport Interface (SDTI)

SMPTE 315M-2004, Television – Camera Positioning Information Conveyed by Ancillary Data Packets

SMPTE 334-1-2007, Vertical Ancillary Data Mapping of Caption Data and Other Related Data

SMPTE 348M-2005, Television – High Data Rate Serial Data Transport Interface (HD-SDTI)

SMPTE 352M-2002, Television – Video Payload Identification for Digital Television Interfaces

SMPTE 353M-2000, Television – Transport of MPEG-2 Recoding Information as Ancillary Data Packets

SMPTE 427-2009, Link Encryption for 1.5 Gb/s Serial Digital Interface

SMPTE 2010-2008, Vertical Ancillary Data Mapping of ANSI/SCTE 104 Messages

SMPTE 2016-3-2007, Vertical Ancillary Data Mapping of Active Format Description and Bar Data

SMPTE 2016-4-2007, Vertical Ancillary Data Mapping of Pan-Scan Information

SMPTE 2020-1-2008, Format of Audio Metadata and Description of the Asynchronous Serial Bitstream Transport

SMPTE 2031-2007, Carriage of DVB/SCTE VBI Data in VANC

SMPTE RP 165-1994, Error Detection Checkwords and Status Flags for Use in Bit-Serial Digital Interfaces for Television

SMPTE RP 207-2005, Transport of Program Description Data in Ancillary Data Packets

SMPTE RP 208-2002, Transport of VBI Packet Data in Ancillary Data Packets

SMPTE RP 214-2002, Packing KLV Encoded Metadata and Data Essence into SMPTE 291M Ancillary Data Packets

SMPTE RP 223-2003, Packing UMID and Program Identification Label Data into SMPTE 291M Ancillary Data Packets

SMPTE RDD 8-2006, Storage and Distribution of Teletext Subtitles and VBI Data for High-Definition Television

ITU-R BT.1685 (09/04), Structure of Inter-Station Control Data Conveyed by Ancillary Data Packets