

Payload Identification Codes for Serial Digital Interfaces — Amendment 1



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Prior to the revision of this document in 2010, SMPTE ST 352 was developed as a stand-alone document containing all of the information required to implement the payload ID for a wide range of video formats and interfaces.

As part of the 2010 revision, SMPTE ST 352 has begun the transition into a controlling standard in which the general format of the payload packet is defined, but the specific definition of the payload packet and its preferred horizontal and vertical position in the horizontal ancillary data space is contained in separate reference documents.

As part of this transition, all of the legacy payload definitions for existing formats and interfaces were included in normative Annex B. It is intended to remove specific language relating to these legacy formats and interfaces from SMPTE ST 352 over time as and when such legacy standards are revised to include the payload definitions directly.

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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, Engineering Guidelines and Registered Disclosure Documents, 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 Amendment 1 to SMPTE ST 352 was prepared by Technology Committee 10E.

1 Purpose

This Amendment to SMPTE ST 352 changes the document title to more accurately reflect the current usage of the payload identifier; removes the normative reference to SMPTE 292; removes the definition of horizontal and vertical location of the payload ID; removes the precise payload definitions for 750 line and 1080 line interfaces in annex B and corrects language in five places that makes reference to SMPTE 292.

2 Change Video Payload to “Payload”

Delete the word “video” from each instance of the term “video payload” in the title and in various other locations throughout the document.

3 Amendment of Section 3 – Normative References

Delete the following normative reference: SMPTE 292-2008, 1.5 Gb/s Signal / Data Serial Interface.

4 Amendment of Section 6.2.3

For each occurrence of the following text in the noted sections, replace:

“.....the ancillary data packet shall be added once per frame on the Y-channel as defined in SMPTE 292.”

With:the ancillary data packet shall be added once per frame.

5 Amendment of Section 6.2.4

Delete the following text:

“.....For digital interfaces having 750 lines with a progressive (P) scanning structure, the ancillary data packet shall be added once per frame on the Y-channel as defined in SMPTE 292. The recommended location of the ancillary packet, if ancillary space is available, shall be on the following line:

750P: Line 10”

6 Amendment of Section 6.2.5

Delete the following text:

“.....For digital interfaces having 1125 lines with interlaced (I) and progressive segmented-frame (PsF) scanning structures, the ancillary data packet shall be added once per field on the Y-channel as defined in SMPTE 292. The recommended location of the ancillary packet, if ancillary space is available, shall be on the following lines:

1125I (field 1): Line 10

1125I (field 2): Line 572

NOTE – These line numbers also apply to SMPTE 372 dual-link HD-SDI when using interlaced and progressive segmented-frame scanning.”

7 Amendment of Section 6.2.6

Delete the following text:

“.....For digital interfaces having 1125 lines with a progressive (P) scanning structure, the ancillary data packet shall be added once per frame on the Y-channel as defined in SMPTE 292. The recommended location of the ancillary packet, if ancillary space is available, shall be on the following line:

1125P: Line 10

NOTE – This line number also applies to SMPTE 372 dual-link HD-SDI when carrying progressive formats other than 1080p60, 1080p60/1.001 or 1080p50.”

And delete the following:

“.....For the transport of 1080p60, 1080p60/1.001 or 1080p50. formats, over the interlaced SMPTE 372 dual-link HD-SDI interface, the ancillary data packet shall be added once per field on the Y-channel as defined in SMPTE 292. The recommended location of the ancillary packet, if ancillary space is available, shall be on the following lines:

1125I (field 1): Line 10

1125I (field 2): Line 572

NOTES

1 The line numbers defined above for the 750-line and 1125-line interfaces in the SMPTE 292 based serial digital interface avoids the lines used by SMPTE 299 for the carriage of the digital audio control data packet.”

8 Amendment of Annex B

Replace 2008 with 2010.

9 Amendments to Sections B.4, B.5 and B.7

Delete sections B.4, B.5 and B.7 and re-number preceding and succeeding sections accordingly.