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Engineers***

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Digital Program Insertion Cueing Message for Cable

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1 Scope

This standard supports frame accurate signaling of events in MPEG-2 transport streams along with associated descriptive data. This standard supports the splicing of MPEG-2 transport streams for the purpose of Digital Program Insertion, which includes advertisement insertion and insertion of other content types. An in-stream messaging mechanism is defined to signal splicing and insertion opportunities and it is not intended to ensure seamless splicing. As such, this recommendation does not specify the splicing method used or constraints applied to the streams being spliced, nor does it address constraints placed on splicing devices.

A fully compliant MPEG-2 transport stream (either Multi Program Transport Stream or Single Program Transport Stream) is assumed. No further constraints beyond the inclusion of the defined cueing messages are placed upon the stream.

This standard specifies a technique for carrying notification of upcoming Splice Points and other timing information in the transport stream. A splice information table is defined for notifying downstream devices of splice events, such as a network break or return from a network break. The splice information table, which pertains to a given program, is carried in one or more PID(s) referred to by that program's Program Map Table (PMT). In this way, splice event notification can pass through most transport stream remultiplexers without need for special processing.

2 References

2.1 Normative references

The following documents contain provisions, which, through reference in this text constitute provisions of the standard. At the time of Subcommittee approval, the editions indicated were valid. All standards are subject to revision; and while parties to any agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents may not be compatible with the referenced version.

[ISO 15706-2]	ISO 15706-2:2007 – Information and Documentation - International Standard Audiovisual Number (V-ISAN) – Part 2: Version Identifier
[MPEG Systems]	ITU-T Recommendation H.222.0 / ISO/IEC 13818-1 (2013), Information Technology ---- Generic Coding of Moving Pictures and Associated Audio Information: Systems
[CLADI1-1]	MD-SP-VOD-CONTENTv1.1- C01-120803 – CableLabs Video-on-Demand Content Specification 1.1
[SMPTE 330M]	SMPTE 330M-2004 – SMPTE Standard for Television - Unique Material Identifier
[FIPS 46-3]	FIPS PUB 46-3, 1999 October 25, Data Encryption Standard
[FIPS 81]	FIPS PUB 81, 1980 December 2, DES Modes of Operation