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**AVC Video Systems and Transport Constraints for Cable
Television**

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140 Philips Road

Exton, PA 19341

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Errata

This version (2010-a) corrects editorial errors in the final approved document previously published as “ANSI/SCTE 128 2010”, namely:

- 1) The missing legends for tables 9A, 9B, 9C were restored
- 2) The numbering of the Tables from 9A forward was corrected

There were no normative content changes.

AVC Video Systems and Transport Constraints for Cable Television

1.0 SCOPE

This document defines the video coding and transport constraints on ITU-T Rec. H.264 | ISO/IEC 14496-10 [4] video compression (hereafter called "AVC") for Cable Television. In particular, this document describes the transmission of AVC coded video elementary streams in an MPEG-2 service multiplex (single or multi-program Transport Stream).

Note: The carriage of MPEG-2 video in the MPEG-2 service multiplex is described in SCTE 54 [1].

1.1 Background (Informative)

This document assists in creation of an AVC coded video elementary stream and its transport and is intended for broadcast purposes. There are other applications: time-shifting (e.g., PVR/DVR service), Video-on-Demand service, unicast, multicast, splicing (e.g., Ad-insertion) that could employ the specifications in this document. However, constraints specific to those applications are outside of the scope of this document.

2.0 NORMATIVE REFERENCES

The following documents contain provisions, which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

2.1 SCTE References

[1] ANSI/SCTE 54 (2006), Digital Video Service Multiplex and Transport System Standard for Cable Television.

2.2 Standards from other Organizations

[2] ATSC A/65C, Program and System Information Protocol for Terrestrial Broadcast and Cable, Revision C, with Amendment No. 1, May 9, 2006; Section 6.9.2.

[3] ISO/IEC 13818-1, (2007), "Information Technology – Generic coding of moving pictures and associated audio – Part 1: Systems."

[4] ITU-T Rec. H.264 | ISO/IEC 14496-10, (2005), "Information Technology – Coding of audio visual objects – Part 10: Advanced Video Coding."

[5] CEA-608-C (2005), Line 21 Data Services.

[6] CEA-708-C (2006), Digital Television (DTV) Closed Captioning.

[7] ATSC A/53 Part 4:2007, Digital Television Standard, MPEG-2 Video System Characteristics, 3 January 2007.

[8] ETSI TS 101 154 V1.8.1 Digital Video Broadcasting (DVB): Specification for the use of Video and Audio Coding in Broadcasting Applications based on the MPEG-2 Transport Stream, July, 2007.

[9] SMPTE 2016-1: Standard for Television – Format for Active Format Description and Bar Data.

[10] ISO/IEC 13818-2 (2000), Information Technology – Generic coding of moving pictures and associated audio - Part 2: Video