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Digital Video Subcommittee

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**AVC Video Constraints for Cable Television
Part 2- Transport**

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Document Tags

☒ Specification	☐ Checklist	☐ Facility
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☐ Architecture or Framework	☒ Cloud	☒ Customer Premises
☐ Procedure, Process or Method		

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Editorial Note: Table numbers in this Part of SCTE 128 are not consecutive and retain the table numbers that appeared before SCTE 128 was split into two Parts.

1. Introduction

1.1. Executive Summary

This document assists in transport of an AVC coded video elementary stream constrained per SCTE 128-1 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.

1.2. Scope

This document defines the transport constraints on ITU-T Rec. H.264 | ISO/IEC 14496-10 [ITU-T Rec. H264/ISO/IEC 14496-10] video compression (hereafter called "AVC") for Cable Television. In particular, this document describes the transmission of AVC coded video elementary streams constrained per SCTE 128-1 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].

1.3. Benefits

This specification defines transporting AVC streams for linear broadcast delivery systems. This can interface with other systems such as digital program insertion. It can also combine different programs comprising of separate video, audio, and data packetized streams onto a single bandwidth-constrained multiplex that can be decoded into separate programs.

1.4. Intended Audience

This specification is intended to convey information for those designing systems combining multiple video programs into a multiplex data transport.

1.5. Areas for Further Investigation or to be Added in Future Versions

Further areas for investigation are developing a multiplex that can be used as a feed for delivery into adaptive streaming systems. It can also need modifications for new features such as multi-view video, pervasive timing, and carriage of graphics overlays.

2. Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this document. The editions indicated were valid at the time of subcommittee approval. All documents are subject to revision and, while parties to any agreement based on this document 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 might not be compatible with the referenced version.

2.1. SCTE References

[SCTE 54] ANSI/SCTE 54 2024, Digital Video Service Multiplex and Transport System Standard for Cable Television.