



***Society of Cable
Telecommunications
Engineers***

**ENGINEERING COMMITTEE
Digital Video Subcommittee**

SCTE 193-1 2014

**MPEG-4 AAC Family Audio System – Part 1
Coding Constraints for Cable Television**

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MPEG-4 HE AAC – PART 1 CODING CONSTRAINTS FOR CABLE TELEVISION

1. SCOPE

This document defines the coding constraints on MPEG-4 AAC, HE AAC, and HE AAC v2 (referred to collectively in this document as the “AAC family”) profile audio for cable television. It also discusses MPEG-2 AAC LC profile audio, which is closely related to MPEG-4 AAC profile audio. The carriage of the streams described in this specification is defined in SCTE 193-2 2014 [5]

2. NORMATIVE REFERENCES

The following documents contain provisions, which, through reference in this text, constitute provisions of this 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.

- [1] ISO/IEC 14496-3:2009: Information technology – Coding of audio-visual objects – Part 3: Audio
- [2] ISO/IEC 14496-3:2009/Amendment 4:2013: Information technology – Coding of audio-visual objects – Part 3: Audio, Amendment 4: New levels for AAC profiles
- [3] ISO/IEC 14496-26:2010: Information technology – Coding of audio-visual objects – Part 26: Audio Conformance
- [4] ITU-R Recommendation BS.1770-3 (08/2012): Algorithms to measure audio programme loudness and true-peak audio level

3. INFORMATIVE REFERENCES

The following documents contain information that may be helpful in applying this standard.

- [5] SCTE 193-2 2014, MPEG-4 AAC Family Audio System – Part 2: Constraints for Carriage over MPEG-2 Transport
- [6] ISO/IEC 13818-7:2006, Information technology – Generic coding of moving pictures and associated audio information – Part 7: Advanced Audio Coding (AAC)
- [7] ATSC A/85, 2013: “ATSC Recommended Practice: Techniques for Establishing and Maintaining Audio Loudness for Digital Television”
- [8] ETSI TS 101 154 V1.11.1 (2012-11): Digital Video Broadcasting (DVB) Specification for the use of Video and Audio Coding in Broadcasting Applications based on the MPEG-2 Transport Stream