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Engineers***

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

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TABLE OF CONTENTS

1.	SCOPE	1
2.	NORMATIVE REFERENCES	1
3.	INFORMATIVE REFERENCES	1
4.	COMPLIANCE NOTATION	2
5.	TERMS AND ACRONYMS	2
5.1	Terms	2
5.2	Acronyms and Abbreviations	3
6.	CODING CONSTRAINTS	3
6.1	Introduction	3
6.1.1	MPEG-4 AAC Profile	4
6.1.2	MPEG-4 High Efficiency AAC Profile	4
6.1.3	MPEG-4 High Efficiency AAC v2 Profile	4
6.1.4	Profiles and Levels	4
6.1.5	Sampling Rate	6
6.1.6	AAC Family Audio Bitrates	6
6.1.6.1	Operating Points	6
6.2	Encoding Constraints	7
6.3	Expectations for Decoders	7
6.3.1	Use of Metadata by Decoders	8
7.	AAC METADATA	8
7.1	Dynamic Range Control Tool	8
7.2	Program Config Element	8
7.3	Ancillary Data	9

7.4	Use of DRC Tool and Ancillary Data	9
7.4.1	Loudness Normalization	9
7.4.2	Dynamic Range Compression	9
7.4.2.1	Light Compression	10
7.4.2.2	Heavy Compression	10
7.4.3	Consistency of Downmix Information	10
7.4.4	Downmix of content in 7.1 channel configurations	11
7.4.5	DRC Presentation Mode	11
7.4.5.1	DRC Presentation Mode 1	12
7.4.5.2	DRC Presentation Mode 2	12
8.	RANDOM ACCESS	12
8.1	Random Access with the AAC Profile; Encoding Constraints on the Audio Object Type AAC LC	13
8.2	Random Access with the HE AAC Profile; Further Encoding Constraints on the Audio Object Type SBR	13
8.3	Random Access with the HE AAC v2 Profile; Further Encoding Constraints on the Audio Object Type PS	13
8.4	Random Access Constraints on Metadata	14

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