Society of Cable Telecommunications Engineers

ENGINEERING COMMITTEE
Digital Video Subcommittee

SCTE STANDARD

SCTE 214-2 2015

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MPEG DASH for IP-Based Cable Services
Part 2: DASH/TS Profile

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1. Scope

This standard is part of a suite documenting use of MPEG DASH in cable networks.

This document is not a standalone standard – the complete DASH/TS profile is a combination of this document and SCTE 214-1. The latter document defines restrictions on the MPD that are container-independent, applying to both MPEG-2 TS and ISO-BMFF segments.

This document defines DASH/TS – a profile of MPEG DASH which uses MPEG-2 TS segments. In addition, this profile integrates elements of SCTE specifications on which define media formats and digital program insertion. This profile is based on of the philosophy of the DASH MPEG-2 TS Simple Profile and is similar in its approach to the Common ISO-BMFF Profile.

In addition to the features specified in ISO 23009-1 for the MPEG-2 TS Simple Profile, the following features are specified for use in the DASH/TS profile:

- Features added in 2nd edition (ISO/IEC 23009-1:2014), in particular events (sec. 5.10);
- XLink (which was excluded from Simple and Main MPEG-2 TS profiles)

Several additional restrictions were added in this document and in SCTE 214-1 in order to simplify implementations and make seamless switching realistically attainable.

2. Normative References

2.1. SCTE References

ANSI/SCTE 35 2014, Digital Program Insertion Cueing Message for Cable

ANSI/SCTE 128-1 2013, AVC Video Constraints for Cable Television Part 1: Coding

ANSI/SCTE 128-2 2013, AVC Video Constraints for Cable Television Part 2: Transport

ANSI/SCTE 193-1 2014, MPEG-4 AAC Family Audio System – Part 1 Coding Constraints for Cable Television

ANSI/SCTE 193-2 2014, MPEG-4 AAC Family Audio System – Part 2 Constraints for Carriage over MPEG-2 Transport

ANSI/SCTE 194-1 2013, DTS-HD System – Part 1: Coding Constraints for Cable Television

ANSI/SCTE 194-2 2014, DTS-HD System – Part 2: Constraints for Carriage over MPEG-2 Transport

SCTE 215-1 2015, HEVC Video Constraints for Cable Television, Part 1- Coding

SCTE 214-1 2015, MPEG DASH for IP-Based Cable Services Part 1: MPD Constraints and Extensions

SCTE 214-3 2015, MPEG DASH for IP-Based Cable Services Part 3: DASH/FF Profile

2.2. Standards from other Organizations

ATSC A/53 Part 5 ATSC Digital Television Standard, Part 5 – AC-3 Audio System Characteristics

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