



ATSC

ADVANCED TELEVISION
SYSTEMS COMMITTEE

ATSC Standard: A/341:2019 Amendment No. 1, References

Doc. A/341:2019 Amend. No. 1
2 March 2021

Advanced Television Systems Committee
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202-872-9160

The Advanced Television Systems Committee, Inc., is an international, non-profit organization developing voluntary standards and recommended practices for digital television. ATSC member organizations represent the broadcast, broadcast equipment, motion picture, consumer electronics, computer, cable, satellite, and semiconductor industries. ATSC also develops digital television implementation strategies and supports educational activities on ATSC standards. ATSC was formed in 1983 by the member organizations of the Joint Committee on Inter-society Coordination (JCIC): the Electronic Industries Association (EIA), the Institute of Electrical and Electronic Engineers (IEEE), the National Association of Broadcasters (NAB), the National Cable Telecommunications Association (NCTA), and the Society of Motion Picture and Television Engineers (SMPTE). For more information visit www.atsc.org.

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Revision History

Version	Date
Amendment approved	2 March 2021

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1. OVERVIEW

1.1 Definition

An Amendment is generated to document an enhancement, an addition or a deletion of functionality to previously agreed technical provisions in an existing ATSC document. Amendments shall be published as attachments to the original ATSC document. Distribution by ATSC of existing documents shall include any approved Amendments.

1.2 Scope

This document updates references and related text in ATSC A/341:2019.

1.3 Rationale for Changes

There are multiple references in ATSC A/341:2019 to documents that have newer versions. In one case, the document referenced was withdrawn by its publisher and is no longer available.

1.4 Compatibility Considerations

Experts in ATSC TG3 S41 have studied the updated references. Though the updates affect normative text, the experts believe that the changes in this amendment do not cause interoperability or compatibility issues.

The editor found only one section number related to a reference affected by this amendment. It is the reference for Item 7 in Table 7.1 (“A.331 Annex B.9 [13]”). This section number is consistent across the various versions of ATSC A/331; therefore, this amendment does not change this section number.

2. CHANGE INSTRUCTIONS

Change instructions are given below in *italics*. Unless otherwise noted, inserted text, tables, and drawings are shown in **blue**; deletions of existing text are shown in **red-strikeout**. The text “[ref]” indicates that a cross reference to a cited referenced document should be inserted.

Update the following normative reference.

[2] ISO/IEC: “Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 2: High efficiency video coding,” Doc. ISO/IEC 23008-2:20152020¹. ~~Note that this version of the HEVC specification does not include all items referenced by this document. JCTVC-Y1003, which is available at http://phenix.intevry.fr/jct/doc_end_user/documents/25_Chengdu/wg11/JCTVC-Y1003-v1.zip, defines these additional items.~~

[10] SMPTE: “Dynamic Metadata for Color Volume Transformation – Application #1,” Doc. ST 2094-10:2016, Society of Motion Picture and Television Engineers, White Plains, NY.

Update the following informative references. Each of these refer to ATSC standards that had revisions or amendments in process at the time this amendment was in ballot; hence, ATSC staff was given the authority to update the dates to the latest versions, depending on ballot outcomes.

- [13] ATSC: “ATSC Standard: Signaling, Delivery, Synchronization, and Error Protection,” Doc. A/331:~~2017~~2021, Advanced Television Systems Committee, Washington, D.C., ~~6-December 2017~~19 January 2021.
- [22] ATSC: “ATSC Standard: ATSC 3.0 System,” Doc. A/300:~~2017~~2020, Advanced Television Systems Committee, Washington, D.C., ~~19-October 2017~~15 May 2020.
- [23] ATSC: “ATSC Standard: Captions and Subtitles, [with Amendment No. 1](#)” Doc. A/343:~~2017~~2018, Advanced Television Systems Committee, Washington, D.C., ~~18-September 2017~~10 October 2018, [Amendment No. 1 approved 8 February 2021](#).

Update the first paragraph of Section 6.4.3 as follows.

ATSC 3.0 specifies the broadcast carriage of closed captions as files that are formatted as "TTML Text and Image Profiles for Internet Media Subtitles and Captions (IMSC1)" [21] as specified by ATSC [A/343](#) [23] (“Closed Captions and Subtitles Standard”).

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