

ATSC Standard: A/72-3:2014 Amendment No.1, "A/53-3"

Doc. A/72-3:2014 Amend. No. 1
14 August 2023

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Revision History

Version	Date
Amendment approved	14 August 2023

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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 amendment is in response to New Project Proposal N-056. This changes the transport signaling from A/72-2 to A/53-3:2023.

1.3 Rationale for Changes

A/72-2 is being withdrawn. The current AVC signaling is defined in A/53-3:2023.

1.4 Compatibility Considerations

There are no known implementations of A/72-2, and A/53-3 as recently amended is a subset of the signaling in A/72-2.

2. LIST OF CHANGES

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. **Yellow highlighted references** indicate the document editor should insert the appropriate internal document references.

2.1 Change Instructions

Change the following normative references:

[1] ATSC: “ATSC Digital Television Standard, Part 3 – Service Multiplex and Transport Subsystem Characteristics,” Doc. A/53 Part 3:~~2013~~**2023-02**, Advanced Television Systems Committee, Washington, D.C., ~~7 August 2013~~**15 February 2023**.

~~[7] ATSC: “AVC Video Transport Subsystem Characteristics,” Doc. A/72, Part 2:2014, Advanced Television Systems Committee, Washington, D.C., 18 February 2014.~~

Change 7.1 as follows:

7.1 MPEG-2 Systems Standard Usage

The transport subsystem shall comply with the Transport Stream definition of the MPEG-2 Systems standard as specified in ISO/IEC 13818-1 [8] [9] and shall be further constrained as specified in ATSC A/53 Part 3 [2] and herein. Program shall mean the collection of all elements within the emission that have the same value of MPEG-2 program_number.

The stream_type value for MVC Base view sub-bitstream program elements shall be same as the value of stream_type for AVC video program as defined in ~~A/72 Part 2 [7]~~**A/53 Part 3 [2] (0x1B)**.

The stream_type value for MVC Dependent view sub-bitstream program elements shall be equal to 0x20 as defined ISO/IEC 13818-1 [8] [9]. The video T-STD for MVC Dependent view sub-bitstream shall be as defined in ISO/IEC 13818-1 [8] [9] and shall follow the constraints for the profile and level encoded in the video elementary stream in Annex H of ISO/IEC 14496-10 [10].

An MVC Base Access Point shall occur at least once per second ~~in accordance with Section 6.1 of ATSC A/72 Part 2 [7] for an AVC Access Point~~. Additionally, the MVC Dependent Access Point shall occur at the same time and with the same period as the MVC Base Access Point. Video streams of stream_type 0x20 shall be identified and constrained as described hereinafter.

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