



ATSC

ADVANCED TELEVISION
SYSTEMS COMMITTEE

ATSC Standard: A/331:2019 Amendment No. 6, Simulcast TSID

Doc. A/331:2019 Amend. No. 6
31 December 2019

Advanced Television Systems Committee
1776 K Street, N.W.
Washington, D.C. 20006
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.

Note: The user's attention is called to the possibility that compliance with this standard may require use of an invention covered by patent rights. By publication of this standard, no position is taken with respect to the validity of this claim or of any patent rights in connection therewith. One or more patent holders have, however, filed a statement regarding the terms on which such patent holder(s) may be willing to grant a license under these rights to individuals or entities desiring to obtain such a license. Details may be obtained from the ATSC Secretary and the patent holder.

Implementers with feedback, comments, or potential bug reports relating to this document may contact ATSC at <https://www.atsc.org/feedback/>.

Revision History

Version	Date
Amendment approved	31 December 2019

ATSC Standard: A/331:2019 Amendment No. 6, Simulcast TSID

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 clarifies the semantics for setting SLT.Service.SimulcastTSID.

1.3 Rationale for Changes

A331:2019 has misleading and erroneous statements about what this is set to. There is no TSID field in MPEG-2 Transport and the intended field is not defined in either MPEG or A/53. The intended field is supposed to match the A/65 VCT channel_TSID. There is also duplicated and confusing text about the attributes.

1.4 Backwards compatibility

This recommendation is backwards compatible since it must be set correctly to be usable.

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.

3.3 Acronyms and Abbreviation

Add new acronyms as follows:

MPEG – Moving Picture Experts Group

TSID – Transport Stream Identifier

VCT – Virtual Channel Table

Modify 6.3.2 definition of as follows:

6.3.2 SLT Semantics

...

SimulcastTSID – ~~The content of this optional element is a~~**This** 16-bit number that shall ~~be, when present, shall~~ reference the TSID value of an ATSC 1.0 broadcast emission **channel** carrying the same programming content, ~~on the virtual channel identified with simulcastTSID@simulcastMajorChannelNo if present and service@majorChannelNo if not present, and simulcastTSID@simulcastMinorChannelNo if present and service@minorChannelNo if not present, as is being broadcast in this ATSC 3.0 Service.~~ The TSID value shall be **set to the ATSC 1.0 VCT channel_TSID field as defined** ~~as specified in~~

~~ISO/IEC 13818-1 (MPEG-2 Systems) [33]~~ and as used in ATSC A/65 [1] Section 6.3. When not present, the programming content on this Service is not associated with any ATSC 1.0 virtual channel in the local broadcast area.

@simulcastMajorChannelNo – An integer number in the range 1 to 999 that shall represent the “major” channel number of an ATSC 1.0 broadcast service carrying the same programming content, if present. If not present, service@majorChannelNo shall represent the “major” channel number of an ATSC 1.0 broadcast service carrying the same programming content.

@simulcastMinorChannelNo – An integer number in the range 1 to 999 that shall represent the “minor” channel number of an ATSC 1.0 broadcast service carrying the same programming content, if present. If not present, service@minorChannelNo shall represent the “minor” channel number of an ATSC 1.0 broadcast service carrying the same programming content.

...

– End of Document –