



**ATSC**

ADVANCED TELEVISION  
SYSTEMS COMMITTEE

# **ATSC Recommended Practice: A/327:2018 Amendment No. 1, BSID**

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Doc. A/327:2019 Amendment 1  
26 November 2019

**Advanced Television Systems Committee**  
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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](http://www.atsc.org).

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*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.

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### Revision History

| Version            | Date             |
|--------------------|------------------|
| Amendment approved | 26 November 2019 |

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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 defines the semantics for setting the BSID attribute.

#### 1.3 Rationale for Changes

BSID is a unique identifier for an RF transmission and is region-specific. To be useful it cannot be left to individual broadcasters to achieve uniqueness and a managed numbering system is needed.

#### 1.4 Backwards compatibility

This recommendation is backwards compatible since the syntax in A/322 is undefined and unconstrained beyond a 16-bit field.

### 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.

#### 2.1 Informative References

*Add new references as follows:*

- [13] Government of Canada, Spectrum Management System, Broadcasting Services:  
[http://sms-sgs.ic.gc.ca/eic/site/sms-sgs-prod.nsf/eng/h\\_00015.html](http://sms-sgs.ic.gc.ca/eic/site/sms-sgs-prod.nsf/eng/h_00015.html).
- [14] Instituto Federal de Telecomunicaciones  
<http://www.ift.org.mx/conocenos/estructura/unidad-de-cumplimiento>.
- [15] FCC Licensing and Management System:  
<https://enterpriseefiling.fcc.gov/dataentry/public/tv/publicFacilitySearch.html>.
- [16] Ministry of Science and ICT of South Korea:  
<https://english.msit.go.kr/>.

#### 3.3 Acronyms and Abbreviation

*Add new acronyms as follows:*

**MPEG** – Moving Picture Experts Group  
**NTSC** – National Television System Committee

## TSID1 – Transmission Signal Identifier

*Add a new section and subsection as follows:*

### 4.2.18 BSID

#### 4.2.18.1 North America and South Korea

For ATSC 3.0 transmissions in North America and South Korea, the value of BSID (L1D\_bsid) should be set to the value of NTSC TSID, as assigned/registered with country registration authorities as follows:

- Canada registration authority: Government of Canada [13]
- Mexico registration authority: Instituto Federal de Telecomunicaciones [14]
- United States registration authority: Federal Communications Commission [15]
- South Korea registration authority: Ministry of Science and ICT [16]

– End of Document –

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1 This is not the MPEG Transport Stream Identifier.