



**ATSC**

ADVANCED TELEVISION  
SYSTEMS COMMITTEE

# **ATSC Standard: A/336:2019 Amendment No. 1, “IANA Registration Alignment”**

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Doc. A/336:2019 Amend. No. 1  
4 June 2020

**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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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
A/336:2019 Amendment No. 1 approved	4 June 2020

## **ATSC Standard: A/336:2019 Amendment No. 1, “IANA Registration Alignment”**

### **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 amends the A/336 specification to align the Dynamic Event Message media type description with the text published by IANA at <https://www.iana.org/assignments/media-types/media-types.xhtml#application>. The only affected text is the "Security" section of appendix E.2.

#### 1.3 Rationale for Changes

When published, A/336:2019 included a notice to the editors that "any changes to this Annex are subject to review by IETF and IANA as described in IETF BCP 13." As the document was published prior to the completion of IANA review, and the IANA feedback required modifications to the original text, the text in A/336 needs to be updated to match that published by IANA:

<https://www.iana.org/assignments/media-types/application/atsc-dynamic-event-message>

This amendment addresses the inconsistency between the published IANA text and that in A/336 by modifying the appendix.

#### 1.4 Compatibility Considerations

The changes described in this document are backward-compatible relative to the currently published version of the standard to which this Amendment pertains and any previously approved Amendments for that standard. It is anticipated that the changes in the description of security concerns have already been considered and addressed by any users of the Dynamic Event Message as described in A/336:2019, as the text changes only reference existing requirements and do not introduce any new normative requirements.

### **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 Normative References

*No changes.*

#### 2.2 Informative References

*No changes.*

#### 2.3 Acronyms and Abbreviations

*No changes.*

## 2.4 Terms

*No changes.*

## 2.5 Change Instructions

*In Appendix E.2, modify the text in the Security section of the Dynamic Event Message as shown below.*

### **E.2 DYNAMIC EVENT MESSAGE**

Type name:

application

Subtype name:

atsc-dynamic-event-message

Required parameters:

N/A

Optional parameters:

N/A

Encoding considerations:

binary

This media type may require non-transparent transfer encoding (such as base64 or Quoted-Printable) on transports not capable of handling binary.

Security considerations:

~~The security issues associated with this type have not been assessed.~~

This media type identifies a dynamic event message, which is used to deliver a stream of dynamic events, such as a list of updated signaling tables. Events themselves are notifications saying that some action needs to be taken.

Since actions can cause receivers to behave in fairly arbitrary ways, both integrity protection and source authentication, as referenced in A/336 Section 5.4, are required to prevent misleading of processors.

This media type does not provide any confidentiality protection and instead relies on the transport protocol that carries it to provide such security. These protocols are referenced in A/336 Section 5.4.

Dynamic event messages are retrieved from an event server by dereferencing a URL that is constructed by the Receiver using the process defined in A/344 Section 5.4 and is in a domain specified and administered under authority of ATSC. The only domain currently allowed is `vp1.tv`, as defined in A/336 Table 5.20. This mitigates additional general security considerations, as signaling resulting in an `atsc-dynamic-event-message` can only be resolved to a server having a valid, active registration with the VPI Registrar. In addition to this, processors should make every effort to validate the origin against other transport signaling, if present.

Interoperability considerations:

ATSC A/336 specifies the format of conforming messages and the interpretation thereof.

Published specification:

This media type registration is an integral part of ATSC A/336, “Content Recovery in Redistribution Scenarios”, Annex E. The payload is defined in Section 5.1.8 of that

document. This specification is available at <https://www.atsc.org/atsc-documents/type/3-0-standards/>.

Applications that use this media type:

ATSC 3.0 television and Internet encoders, decoders and other facility and consumer equipment.

Additional information:

N/A

Person & email address to contact for further information:

Editor, Advanced Television Systems Committee ([jwhitaker@atsc.org](mailto:jwhitaker@atsc.org))

Intended usage:

COMMON

Restrictions on usage:

N/A

Author:

ATSC.

Change controller:

ATSC.

– End of Document –