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

Advanced Television Systems Committee
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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

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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 VP1 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)

Intended usage:
COMMON

Restrictions on usage:
N/A

Author:
ATSC.

Change controller:
ATSC.

– End of Document –