



**ATSC**

ADVANCED TELEVISION  
SYSTEMS COMMITTEE

# **ATSC Standard: A/331:2020 Amendment No. 2, AEAT Subgroups**

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**Advanced Television Systems Committee**  
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### Revision History

Version	Date
Amendment approved	19 January 2021

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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 contribution extends the utility of the AEAT to enable the use of restricted and private audiences.

### 1.3 Rationale for Changes

The existing structure allows the capability to restrict the audience of the AEAT message. These are indicated by “restricted” and “private”. However, there is no capability to identify who the non-public intended audience should be. This amendment adds the field necessary to utilize these non-public audiences.

### 1.4 Compatibility Considerations

This change is completely compatible as the new field only exists in the case of non-public audiences.

### 1.5 Change Instructions

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.

*Modify the last paragraph of Section 6.5 as shown below:*

The definition of this schema is in an XML schema file, ~~AEAT-1.0-20190122.xsd~~ **AEAT-1.0-20201106.xsd**, accompanying this standard, as described in Section 3.6 above. The XML schema xmlns short name should be "aeat".

*Modify Table 6.9 as shown below:*

**Table 6.1** AEAT Element Structure

Element or Attribute Name	Use	Data Type	Short Description
<b>AEAT</b>			Root element of the <b>AEAT</b>
<b>AEA</b>	1..N		The identifier of the start of a specific Advanced Emergency Alert <b>message within AEAT</b> formatted as AEA-MF.
@aeaId	1	string	The identifier of AEA message.
@issuer	1	string	The identifier of the broadcast station originating or forwarding the message.
@audience	1	string	The intended distribution of the AEA message.

<a href="#">@subAudience</a>	0..1	<a href="#">aeat:listOfStrings</a>	<a href="#">Subgroup for non-public messages.</a>
<a href="#">@aeaType</a>	1	string	The category of the message.
<a href="#">@refAEAIId</a>	0..1	string	The referenced identifier of AEA message. It shall appear when the <a href="#">@aeaType</a> is "update" or "cancel" and shall not appear when the <a href="#">@aeaType</a> is "alert".
<a href="#">@priority</a>	0..1	unsignedByte	The priority of the message. It shall appear when the <a href="#">@aeaType</a> is "alert" or "update" and shall not appear when the <a href="#">@aeaType</a> is "cancel".
<a href="#">@wakeup</a>	0..1	boolean	Indication that this AEA is associated with a wake-up event.
<b>Header</b>	0..1		The container for the basic alert envelope.
<a href="#">@effective</a>	0..1	dateTime	The effective time of the AEA message. It appears when the <a href="#">@aeaType</a> is "alert" or "update." If omitted, the default is immediate.
<a href="#">@expires</a>	0..1	dateTime	The expiration time of the AEA message. It appears when the <a href="#">@aeaType</a> is "alert" or "update".
<b>EventCode</b>	0..1	string	A code identifying the event type of the AEA message.
<a href="#">@type</a>	1	string	A national-assigned string designating the domain of the code (e.g. SAME in US, ...)
<b>EventDesc</b>	0..N	string	The short plain text description of the emergency event (e.g. "Tornado Warning" or "Tsunami Warning.")
<a href="#">@lang</a>	1	lang	The code denoting the language of the respective element of the <b>EventDesc</b> .
<b>Location</b>	0..N	string	The geographic code delineating the affected area of the AEA message. It appears when the <a href="#">@aeaType</a> is "alert" or "update".
<a href="#">@type</a>	1	string	A national-assigned string designating the domain of the code (e.g. FIPS in US or "SGC" in Canada)
<b>AEAText</b>	0..N	string	Contains the specific text of the emergency notification. It appears when the <a href="#">@aeaType</a> is "alert" or "update".
<a href="#">@lang</a>	1	lang	The code denoting the language of the respective element of the AEA message text
<b>LiveMedia</b>	0..1		Contains the information of emergency-related live A/V service which is delivered via broadcast stream.
<a href="#">@bsid</a>	1	<a href="#">aeat:listOfUnsignedShort</a>	Identifier of the Broadcast Stream that contains the emergency-related live A/V service.
<a href="#">@serviceId</a>	1	unsignedShort	Integer number that identifies the emergency-related A/V Service.
<b>ServiceName</b>	0..N	string	A user-friendly name for the service where the LiveMedia is available
<a href="#">@lang</a>	1	lang	The language of the text described in the ServiceName element
<b>Media</b>	0..N		Contains the component parts of the multimedia resource.
<a href="#">@lang</a>	0..1	lang	The code denoting the language of the respective element <b>Media</b>
<a href="#">@mediaDesc</a>	0..1	string	Text describing the type and content of the media file
<a href="#">@mediaType</a>	0..1	string	Text identifying the intended use of the associated media.
<a href="#">@url</a>	1	anyURI	URL of the media file
<a href="#">@alternateUrl</a>	0..1	anyURI	Alternate URL of the media file when it is also available via non-broadcast delivery (i.e. via the Internet)
<a href="#">@contentType</a>	0..1	string	IANA media type of media content referenced by <b>Media@url</b>

		@contentLength	0..1	unsignedLong	Size in bytes of media content referenced by <b>Media@url</b>
		@mediaAssoc	0..1	anyURI	URI of another Media element with which this attribute is associated

*Add the following text to Section 6.5.2 AEAT and AEA Semantics after Table 6.10:*

**AEA@subAudience** – The string(s) shall identify the intended subgroup(s) for restricted or private audiences. The union of the @subAudience strings shall describe the audience for the message. The value(s) shall be defined as agreed by the broadcaster and the restricted entity (subAudience) that uses it. As such, the general public will not be aware of this information. This field shall appear when @audience is "restricted" or "private". For example, this field might contain a string which describes all freshmen (“grade9”), and a string which describes all sophomores (“grade10”). Together those string values would include the audience consisting of all students within both 9th and 10th grades (the union of 9th and 10th graders).

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