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

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
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<tbody>
<tr>
<td>Amendment approved</td>
<td>2 January 2020</td>
</tr>
</tbody>
</table>
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 describes a set of changes to the OnscreenMessageNotification Fragment in A/331. These changes include changes to correct the OnscreenMessageNotification KeepScreenClear@bsid attribute, to support bonded channels.

1.3 Rationale for Changes
The changes described in this document are being proposed because the existing language is does not support bonded channels, which have a list of BSID values identifying the multiple broadcasts carrying the service.

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. In published versions of A/331, the @bsid field is required to be a single unsigned Short value, and all existing receivers do not support bonded channels. Thus, all existing receivers will only receive services with a single @bsid value in the field in question.

2. 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.

2.1 Correct OnscreenMessageNotification

_In Section 6.6.1, Table 6.14, modify one row as shown:_

<table>
<thead>
<tr>
<th>Table 6.1 OnscreenMessageNotification Element Structure</th>
</tr>
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<tbody>
<tr>
<td><strong>Element or Attribute Name</strong></td>
</tr>
<tr>
<td>OnscreenMessageNotification</td>
</tr>
</tbody>
</table>
**KeepScreenClear** | 0..N | Service Information related to Onscreen Message Notification.
---|---|---
@bsid | 1 | listOfUnsignedShort | Identifier of the broadcast stream.
@serviceId | 0..1 | unsignedShort | Identifier of the Service within the scope of the broadcast stream that the notification applies.
@serviceIdRange | 0..1 | unsignedShort | Identifier of a range of serviceId that this KeepScreenClear applies.
@notificationDuration | 0..1 | duration | Indicates duration of this KeepScreenClear for the signaled Service(s).
@kscFlag | 0..1 | boolean | Indicates the status of KeepScreenClear
@version | 1 | unsignedByte | The version of KeepScreenClear

*In Section 6.6.2, modify text as shown:*

@bsid – This space-delimited list of one or more 16-bit identifiers shall indicate the BSID(s) of the Broadcast Stream(s) associated with the values of @serviceId indicated in the message.

– End of Document –