



ATSC

ADVANCED TELEVISION
SYSTEMS COMMITTEE

ATSC Standard: A/331:2019 Amendment No. 9, Fix Keep Screen Clear

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Advanced Television Systems Committee
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Revision History

Version	Date
Amendment approved	2 January 2020

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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 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 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 6.1 OnscreenMessageNotification Element Structure

Element or Attribute Name	Use	Data Type	Description
<code>OnscreenMessageNotification</code>	1		

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.

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