



ATSC

ADVANCED TELEVISION
SYSTEMS COMMITTEE

ATSC Standard: A/331:2021 Amendment No. 3, HELD Processing Order

Doc. A/331:2021 Amend. No. 3
8 June 2021

Advanced Television Systems Committee
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Revision History

Version	Date
Amendment approved	8 June 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 document addresses an ambiguity when both broadcast and broadband resources are provided in the HELD.

1.3 Rationale for Changes

When both broadcast and broadband sources are signaled in the HELD, it is ambiguous which the Receiver should attempt first. This is Receiver dependent today and results in inconsistent behavior, sometimes ending in a deadlock.

1.4 Compatibility Considerations

The changes described in this amendment are backwards compatible as there are no normative changes.

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.

Revise Section 7.1.8.1 as follows:

7.1.8.1 Semantics of HELD

...

@bcastEntryPageUr1 – This optional xs:anyURI attribute shall indicate the URL of the broadcast-delivered Entry Page; e.g., the file in the package with a Content-Location value matching the value given in the @bcastEntryPageUr1 attribute. When the @bcastEntryPackageUr1 attribute is present, the @bcastEntryPageUr1 attribute shall also be present.

@bbandEntryPageUr1 – This optional xs:anyURI attribute shall be a URL of an Entry Page of a broadband-delivered Broadcaster Application. The @bbandEntryPageUr1 attribute shall reference a file that shall be available for download from the referenced broadband server and shall be an absolute URL. Either the @bcastEntryPackageUr1 attribute or the @bbandEntryPageUr1 attribute or both shall be present. **When both @bcastEntryPackageUr1 and @bbandEntryPageUr1 are present, the Receiver is expected to attempt to acquire the broadband reference before attempting to acquire the broadcast resource.**

A change in either of these two URLs shall be an indication that a new Entry Page is available.

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