



ATSC

ADVANCED TELEVISION
SYSTEMS COMMITTEE

ATSC Standard: A/331:2019 Amendment No. 4, User Agent String

Doc. A/331:2019 Amend. No. 4
15 January 2020

Advanced Television Systems Committee
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Revision History

Version	Date
Amendment approved	15 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 defines a “user agent” string for use in HTTP requests for app assets.

1.3 Rationale for Changes

It is important to the app server to understand the requesting device version and conformance. Based on such information a server may deliver an app more tailored to that device, even though the URL is constant. This amendment defines a user agent string based on A/332 capabilities.

1.4 Backwards compatibility

This proposed addition is backwards compatible since HTTP requests without the User Agent field will still deliver some app if the HTTP server can.

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 Change Instructions

Add a new section as follows:

7.1.2.4 HTTP User-Agent Header Field

In order for HTTP servers to customize the delivery of apps, HTTP requests from the receiver on behalf of a Broadcast Application, including the launch URL request, shall provide a User-Agent header field as defined in HTTP [31] and this section.

The syntax shall conform to HTTP [31] Section 5.5.3 and the syntax defined below:

```
"ATSC3/"<yyyy>[-mm] "("<capabilities>")" <HTML>
```

where:

yyyy shall be the year of publication of A/300

mm shall be the optional month of publication of A/300 which is required if it is the second or more publication in that year

capabilities shall be a string conforming to the syntax of sa:Capabilities as defined in A/332 [ref] Section 5.2.2.3.3

HTML shall be the receiver’s HTML User-Agent information

An example for a receiver conforming to A/300:2020 that signals HEVC HDR and “HTML” strings from a popular web browser is as follows:

```
ATSC3/2020-06 (050A) Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3770.142 Safari/537.36
```

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