ATSC Standard:
A/331:2019 Amendment No. 3, Serviceld URL and BSID-PLP Mapping

Doc. A/331:2019 Amend. No. 3
26 December 2019
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Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
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<td>Amendment approved</td>
<td>26 December 2019</td>
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</tbody>
</table>
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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 A/331. These changes are one clarification as to number format in URLs, one set of corrections to example URLs, and a fix to an incorrect/obsolete Figure 5.3.

1.3 Rationale for Changes
The changes described in this document are being proposed because the existing language is unclear and/or misleading.

1.4 Compatibility Considerations
The changes described in this document are backward-compatible, we are unaware of any implementations that use non-decimal indications of service_id values in URLs. Changes to Fig. 5.3 have no compatibility issues.

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.

3. CHANGE INSTRUCTIONS

3.1 Specify Number Format for Path Terms
To specify the number format for the <service_id> path terms:

*Modify Table 6.16 in Section 6.9 as follows:*

<table>
<thead>
<tr>
<th>Terms</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;service_id&gt;</td>
<td>Identifies desired Service (in decimal notation)</td>
</tr>
<tr>
<td>normal</td>
<td>diff</td>
</tr>
<tr>
<td>current</td>
<td>next</td>
</tr>
<tr>
<td>list_of_metadata_object_types</td>
<td>Space-separated string of string tokens defined in Table 6.17</td>
</tr>
</tbody>
</table>

*Modify Section 6.9, second paragraph as follows:*
When an **SLTInetUrl** with `urlType` attribute "1" base URL appears (at the SLT level), the `service_id` term is used to indicate the Service to which the requested signaling metadata objects apply. When constructing a URL path, the value of `service_id` shall be represented as a decimal number (with no leading zeros and no decimal point). When the `service_id` term is not present, then the signaling metadata objects for all Services in the section are requested.

### 3.2 Fix Signaling Server URL Examples

**Modify Section 6.9, examples below Table 6.17 as follows:**

Some examples of relative URLs for an HTTPS request (signaled in the **SLTInetURL** element for signaling metadata objects would be:

- `<sltInetUrl urlType="1">/0x2107/RD` – returns the current, normal version of all ROUTE/DASH signaling objects for the Service with `service_id 0x2107`
- `<sltInetUrl urlType="1">/0x2103/next/MPD` – returns the next, normal version of the MPD for the Service with `service_id 0x2103`
- `<sltInetUrl urlType="1">/0x2104/template/HELD` – returns the current, template version of the HELD for the Service with `service_id 0x2104`
- `<sltInetUrl urlType="1">/0x2110/template/ALL` – returns the current, template versions of all the metadata objects as denoted in Table 6.17, for the Service with `service_id 0x2110`

#### 3.2.1 Modify Figure 5.3

Figure 5.3 shows 1..N Physical Layer Pipes are carried on exactly one Broadcast Stream, which is incorrect in that it doesn’t make provision for channel bonding.

**Modify Figure 5.3 as shown (note 1..n below the middle box labeled “Broadcast Stream <BSID>”):**

![Diagram](image-url)