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

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Revision History

Version	Date
Amendment approved	26 December 2019

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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 6.1 Path Terms, in Order of Appearance in Path

Terms	Meaning
`<service_id>`	Identifies desired Service (in decimal notation)
`normal|diff|template`	Identifies desired mode of files
`current|next`	Identifies desired current/next version
`list_of_metadata_object_types`	Space-separated string of string tokens defined in Table 6.17

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:

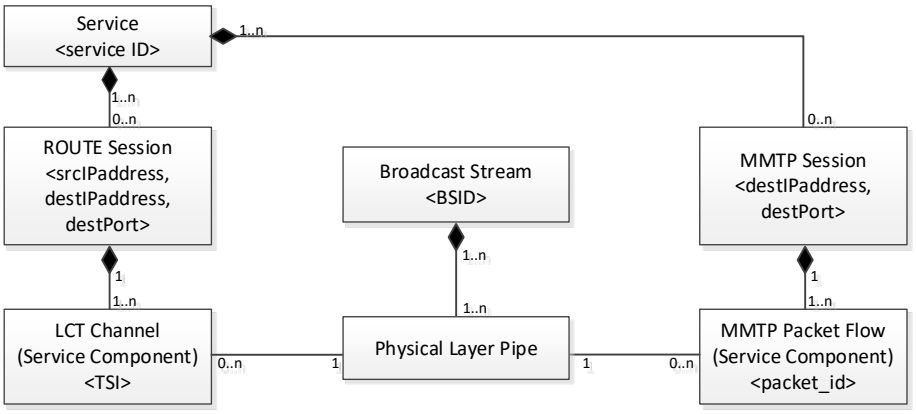
Some examples of relative URLs for an HTTPS request (signaled in the **SLTInetURL** element for signaling metadata objects would be:

- ~~<sltInetUrl urlType="1">/0x~~2107/RD – returns the current, normal version of all ROUTE/DASH signaling objects for the Service with service_id ~~0x~~2107
- ~~<sltInetUrl urlType="1">/0x~~2103/next/MPD – returns the next, normal version of the MPD for the Service with service_id ~~0x~~2103
- ~~<sltInetUrl urlType="1">/0x~~2104/template/HELD – returns the current, template version of the HELD for the Service with service_id ~~0x~~2104
- ~~<sltInetUrl urlType="1">/0x~~2110/template/ALL – returns the current, template versions of all the metadata objects as denoted in Table 6.17, for the Service with service_id ~~0x~~2110

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>":



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