



ATSC

ADVANCED TELEVISION
SYSTEMS COMMITTEE

ATSC Standard: A/331:2019 Amendment No. 5, Fix RRT

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Advanced Television Systems Committee
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Revision History

Version	Date
Amendment approved	30 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 the addition of a field to the Rating Region Table (RRT) defined in Annex F of A/331.

1.3 Rationale for Changes

The changes described in this document are being proposed because the existing specification of RRT does not provide a necessary field to link downloaded RRTs with the ratings specified in A/332.

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.

This amendment adds a field to an XML structure, and thereby does not inhibit operation of legacy receivers' parsers. However, because the ratings system will not work against a downloaded RRT without these changes, backwards compatibility may be disregarded.

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 Add DimensionIndex Field to RRT

Content Advisory Ratings Information is defined by A/332, and is used by A/332 and A/331 to signal specific rating(s) in specific region(s). This is done by identifying the regions (by numeric value), the dimensions rated (by numeric value), and the ratings in those dimensions (by textual value). See A/332 Sec. 5.2.2.1.4.

The Rating Region Table (RRT) is defined by A/331 in Annex F. Each of one or two rating regions may be delivered in the format described in Annex F, each region having a number of dimensions, each dimension having a number of rating levels. Each rating region is identified by number (see Annex F, Table F.2.1, @regionIdentifier), and each rating level is identified by a number (see Annex F, Table F.2.1, @ratingValue). However, there is no numeric field delivered in the RRT that identifies a rating dimension (i.e., no field that corresponds to the A/332 field “RatingDimension”).

Note that the definition of rating region 1 (the not-downloadable rating region) does identify each dimension by number (see CTA-766-D Table 1).

Thus, the Content Advisory Ratings Information works for rating region 1, there is no identification as to which rating dimension (from the downloadable RRT) is being rated by Content Advisory Ratings Information.

This amendment provides a fix for this issue. Note that this change is backwards compatible (even though the cardinality of the new field is ‘1’), as no instantiation of a downloadable rating region table has been defined.

In A/331 Table F.2.1, add one row as shown:

Dimension	1..N		One or more elements, each describing one rating dimension in the rating region.
@dimensionLevels	1	unsignedByte	The number of levels for content advisory in this dimension.
@dimensionGraduated	0..1	boolean	Indicates whether the rating dimension is defined on a “graduated scale”.
@dimensionIndex	1	unsignedByte	The rating dimension index for the rating dimension.
DimensionTitle	0..N	TextType	Human-readable string describing the dimension.
Rating	1..N		Definition of each rating in the Dimension.

In A/331 Section F.2.1, add one semantic attribute:

@dimensionIndex – An unsigned byte value that shall indicate the rating dimension index for the rating dimension.

– End of Document –