



INTERNATIONAL STANDARD ISO/IEC 14496-20:2006
TECHNICAL CORRIGENDUM 2

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
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Information technology — Coding of audio-visual objects —
Part 20:
Lightweight Application Scene Representation (LAsER) and
Simple Aggregation Format (SAF)

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Codage des objets audiovisuels —

Partie 20: Représentation de scène d'application allégée (LAsER) et format d'agrégation simple (SAF)

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 14496-20:2006 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

In 6.8.10.1 (as added by Technical Corrigendum 1), add sentence at the end:

Upon activation, a conditional element emits a beginEvent and the expression “condID.begin” where condID is the ID of a conditional element can be used in begin/end attributess.

In 6.8.11.1 (as added by Technical Corrigendum 1), replace:

LAsER elements implementing the interaction moving the object associated with the virtual pointer shall be placed as children of the cursor element.

ICS 35.040

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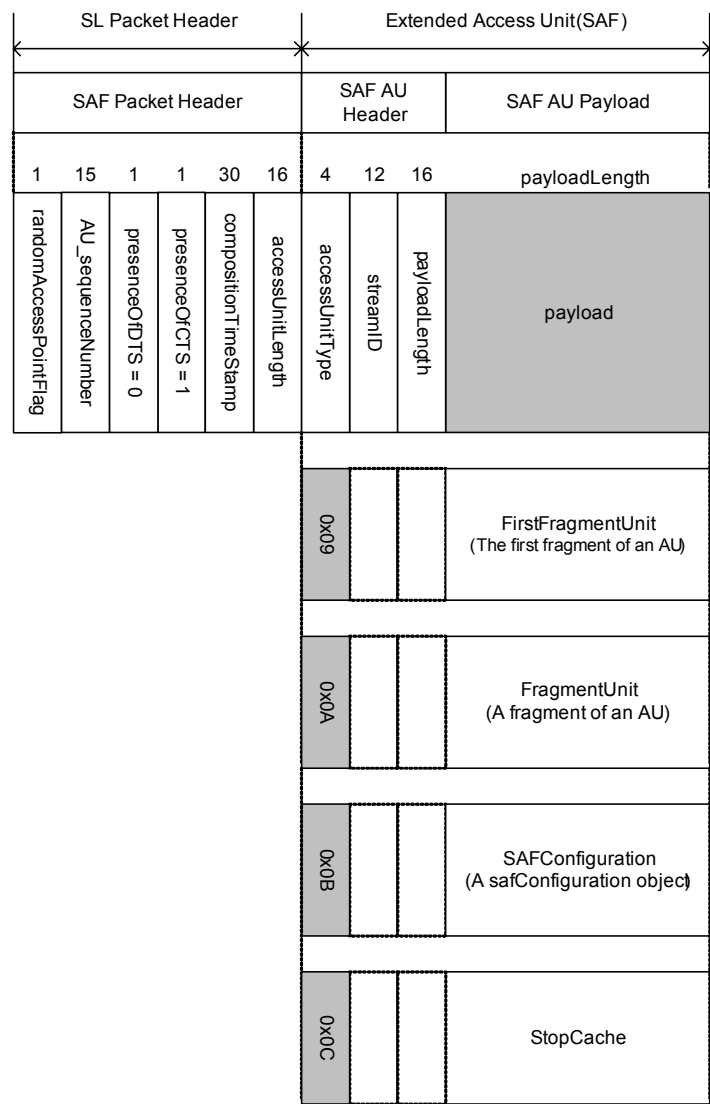
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with:

LASeR elements implementing the interaction moving the object associated with the virtual pointer shall be placed as children of the cursorManager element.

In 7.3, replace the second part of Figure 4 (as modified by Technical Corrigendum 1) with:



In 7.7, replace the reference to 6.5 with a reference to 6.6.

Replace Clause 8 with:

8 Profiles

8.1 Overview

The LASeR profiles are defined in the SceneGraph dimension of MPEG-4 Systems profiles. The purpose of LASeR mini is to allow very constrained implementations of LASeR, including J2ME implementations. One specific feature of mini is that the implementation does not need to implement 2 trees, one DOM tree and one composition tree, or otherwise keep the memory of the decoded value for each attribute.

8.2 LAsER mini

8.2.1 Applications

Rich-media services on mid- and lower-end embedded devices.

8.2.2 List of Tools/Functionalities

8.2.2.1 video element

The attribute **transformBehavior** shall be restricted to values “pinned | pinned90 | pinned180 | pinned270”.
The attribute **overlay** shall be restricted to values “top” or “fullscreen”.

8.2.2.2 stroking

The attributes **stroke-linecap** and **stroke-linejoin** are restricted to the value “butt” and “miter” respectively.
The attributes **stroke-miterlimit**, **stroke-dasharray** and **stroke-dashoffset** are forbidden.

8.2.2.3 inheritance

Attributes with a possible value of “inherit” are only allowed on objects which use their value directly, not on objects that pass the value to their children. The “inherit” value is forbidden.

NOTE this restriction will be implemented in a schema that will be used for validation of the profile.

Hints such as *-rendering are only allowed on the root svg.

pointer-events is only allowed on the root svg.

8.2.2.4 animation

For elements **set**, **animate**, **animateColor**, **animateTransform** and **animateMotion**, the following restrictions apply:

- the value of the attribute **fill** is restricted to “freeze”,
- the value of the attribute **additive** is restricted to “replace”,
- either attribute **from** or **values** must be specified.

The value of restart is restricted to “**always**”.

Any content requiring the restoration of a DOM value of an attribute after it has been animated is non conformant. Authors shall make sure that, when deleting an animation or replacing an xlink:href, any previously animated value is made irrelevant by any appropriate mean (e.g. deletion of the target element, replacement of the animated value, etc.)

8.2.2.5 xlink and xml

Attributes xml:base, xml:lang, xml:space, xlink:title, xlink:type, xlink:role, xlink:arcrole, xlink:actuate and xlink:show are forbidden.

8.2.2.6 LAsER Commands

color-rendering, shape-rendering, text-rendering, image-rendering are not updatable in this profile.

Update of attributes from timed elements are restricted in the following manner:

- accumulate, additive, attributeName, by, calcMode, dur, fill, from, id, keyPoints, keySplines, keyTimes, max, min, path, repeatCount, repeatDur, restart, to, values, xlink:actuate, xlink:arcrole, xlink:href, xlink:role, xlink:show, xlink:title, xlink:type, xml:base cannot be updated
- begin, end, clipBegin and clipEnd may be updated

8.2.2.7 uDOM

uDOM is not included.

8.2.2.8 Navigation

The events focusin and focusout are not supported. The attribute focusable, focusHighlight and nav-* are not supported.