International Standard

ISO/IEC 14496-15

Information technology — Coding of audio-visual objects —

Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format

AMENDMENT 1: Support for neural-network post-filter supplemental enhancement information and other improvements

Technologies de l'information — Codage des objets audiovisuels —

Partie 15: Transport de vidéo structurée en unités NAL sur la couche réseau au format ISO de base pour les fichiers médias

AMENDEMENT 1: Prise en charge des informations supplémentaires d'amélioration post-filtre du réseau neuronal et autres améliorations

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AMENDMENT 1
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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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Clause 2

Add the following normative references:

ISO/IEC 15938-17, *Information technology — Multimedia content description interface — Part 17: Compression of neural networks for multimedia content description and analysis*

ISO/IEC 23002-7, *Information technology — MPEG video technologies — Part 7: Versatile supplemental enhancement information messages for coded video bitstreams*

4.10

Replace the content with the following:

4.10 SEI information box

4.10.1 Definition

Box Type: `'seii'`

Container: `SchemeInformationBox` (`'schi'`) or `VisualSampleEntry`

Mandatory: Yes (in the `SchemeInformationBox`), no (in a `VisualSampleEntry`)

Quantity: One (in the `SchemeInformationBox`), zero or one (in a `VisualSampleEntry`)

The `SeiInformationBox` documents SEI messages in a bitstream. When contained in a `VisualSampleEntry`, `numRequiredSEIs` shall be 0. By inspecting the `SeiInformationBox` a player will know which SEI messages it can assume to be present, and which are deemed necessary by the file author for correct playback. There might be other SEI messages present in the bitstream that are not documented by this box.

NOTE Writers can list non-required SEI messages in the `SeiInformationBox` included directly in the sample entry and required SEI messages in the `SeiInformationBox` in the `SchemeInformationBox` of the same track.

The SEI messages listed in the `SeiInformationBox` should be stored either in the bitstream or in the configuration record within the untransformed sample entry. The `SeiInformationBox` does not contain the actual SEI messages, it only lists those that occur in the bitstream.

4.10.2 Syntax

```
aligned(8) class SeiInformationBox extends Box('seii') {
   unsigned int(16) numRequiredSEIs;
```

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