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Abstract

In this contribution, addition of a syntax element in the TuC document is suggested, to extend the usage of video content, beyond the existing human viewing and machine analysis coverage. Such a change will impact the current EOI, NNPFC and SOP SEI messages.

Introduction / Problem Statement

In the most updated VSEI VSEI v4 specification [1], the semantics of syntax elements for video content description have constraints such that a video content cannot be unsuitable for human viewing nor for machine analysis at the same time. Instances for such a statement can be found in SPO SEI message, EOI SEI message and NNPFC SEI messages.

Using SOP SEI as an example, the specific descriptions of `po_for_human_viewing_idc` and `po_for_machine_analysis_idc` are listed and highlighted in green as follows:

`po_for_human_viewing_idc` equal to 3 specifies that the intended optimal usage of the video resulting from the processing chain specified by this SPO SEI message includes for human viewing.
`po_for_human_viewing_idc` equal to 2 specifies that that the video resulting from the processing chain specified by this SPO SEI message is suitable but not specifically optimized for human viewing.
`po_for_human_viewing_idc` equal to 1 specifies that the video resulting from the processing chain specified by this SPO SEI message is unsuitable for human viewing. `po_for_human_viewing_idc` equal to 0 specifies that it is unknown if the video resulting from the processing chain specified by this SPO SEI message is suitable for human viewing.

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