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Title: AHG9: On constituent rectangles SEI message

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Purpose: Proposal

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Abstract

This contribution proposes two changes to the specification of constituent rectangles (CR) SEI message.

To skip unnecessary syntax elements when a layer contains a single constituent rectangle.

To improve the presence condition for the size of the guard band

On skipping unnecessary syntax elements for single CR

Problem description

Built from JVET-AL0095-v1.docx

CARD

<http://vexpertise.stbit.ru/documents/JVET-AL0095>



https://jvet-experts.org/doc_end_user/documents/38_Teleconference/wg11/JVET-AL0095-v1.zip



https://jvet-experts.org/doc_end_user/current_document.php?id=15420



http://vexpertise.stbit.ru/meeting-notes/source/meeting_38_al



MEETING NOTES

[JVET-AL0095](#) AHG 9: On constituent rectangles SEI message [C. Kim, H. Tan, J. Nam, J. Lee, J. Lim, S. Kim (LGE)]

This contribution proposes two changes to the specification of constituent rectangles (CR) SEI message.

- To skip unnecessary syntax elements when a layer contains a single constituent rectangle.
- To improve the presence condition for the size of the guard band

It was suggested that the first proposal would inherently require that all sample locations in the coded picture are in the CR, which is not currently a requirement.

No action on the first proposal.

The current design doesn't allow signalling a zero size guardband in one direction but not in the other. The contribution doesn't address this issue. It might make sense to remove the `_minus1` from guard band size signalling. suggested to condition the presence of the `cr_guardbands_present_flag[ ]` on having more than one CR in a row and/or column.

It was suggested that signalling of the guardband might still be useful for the subbitstream extraction use case. However, guardbands are not included on the edges of the picture but just between CRs.

Semantics changes for `cr_guardbands_present_flag[ ]` are also proposed.

Decision: remove the `_minus1` in the `cr_guardband_hor_size_minus1` and `cr_guardband_verr_size_minus1`. Also add semantics change for `cr_guardbands_present_flag[ ]`, with precise language determined by editors.

CITATION

C. Kim, H. Tan, J. Nam, J. Lee, J. Lim, S. Kim, "AHG9: On constituent rectangles SEI message", JVET-AL0095, 39th Meeting; Daejeon, KR, March 2025.