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of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC
29/WG 11**

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Abstract

VSEI version 4 has reached the preliminary text of the DAM stage on the ISO/IEC standard process. This contribution reports editorial and technical problems for the packed regions information SEI message, which was adopted in draft 5 of VSEI version 4 at the January meeting and proposes their solutions.

Introduction

The packed regions information SEI message was adopted in draft 5 of the VSEI v4 at the January meeting. The draft specification contains several editorial and technical problems. In this contribution, we discuss ten issues and their solutions individually.

Proposal

Comment 1

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LINKS

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JVET-AL0070

<http://vexpertise.stbit.ru/documents/JVET-AL0070>

JVET Search

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AHGS: On packed regions information SEI message

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ABSTRACT

MEETING NOTES

ARCHIVE

archive

https://jvet-experts.org/doc_end_user/documents/38_Teleconference/wg11/JVET-AL0070-v2.zip

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JVET

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Preview document JVET-AL0070

Document Information

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Comments

Associated Resources

MEETING NOTES

external meeting notes

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

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Title: Meeting Report of the 41st Meeting of the Joint Video Experts Team

Status: Report document from the chair of JVET

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1 Summary

MEETING NOTES

[JVET-AL0070](#) AHG9: On packed regions information SEI message [T. Chujoh, Z. Fan, R. Ishimoto, T. Ikai (Sharp)]

1. The loop's variable `i` has been started from 1. An index equal to 0 is not used.
2. The syntax element `pri_resampling_ratio_idx[ i ]` in the array is misspelled.
3. In the syntax table of `pri_multilayer_flag`, `pri_region_layer_id[ i ]` and `pri_region_is_a_layer_flag[ i ]` are related. But, in the semantics of `pri_multilayer_flag`, `pri_region_is_a_layer_flag` is not described.
4. When `pri_num_resampling_ratios_minus1` equals 0, the syntax element `pri_resampling_ratio_idx[ i ]` does not exist; however, the inferred value is not defined.
5. When `pri_target_pic_params_present_flag` equals 0, the syntax elements `pri_target_pic_width_minus1` and `pri_target_pic_height_minus1` do not exist; however, the inferred values are not defined.
6. When `pri_target_pic_params_present_flag` equals 0, the syntax elements `pri_target_region_top_left_x[i]` and `pri_target_region_top_left_y[i]` do not exist. However, the target picture cannot be reconstructed without those syntax elements.
7. The regions in the input picture are packed, not overlapped. It is believed that the target regions should be defined.
8. The values of `pri_target_pic_width_minus1` and `pri_target_pic_height_minus1` should be constrained depending on the chroma format.
9. Depending on the chroma format, the values of the top-left sample position, the width, and the height of the rectangle regions should be constrained. However, those specifications are incomplete.
10. When `pri_multilayer_flag` equals 1, multiple layers exist. However, the basic semantics of PRI SEI seem to consider a single layer.

Regarding Item 1, the loop index is intentionally started from 1 with values for index 0 inferred.

JVET-AL0129 is also related. Further discussion after JVET-AL0129 is reviewed.

Item 2 agreed.

Item 3 agreed. JVET-AL0132 Item 2 also proposes.

Regarding Item 4, it was questioned if inference is needed, because the syntax element is not used. JVET-AL0122 Item 2 also proposes. Further discussion after checking if an inference value is needed.

Regarding Items 5 and 6, it was suggested that it isn't always necessary to reconstruct a target picture, in which case reconstruction of the target picture isn't needed. No action on items 5 and 6.

Item 7 is related to JVET-AL0129 item 3 and JVET-AL0122 Item 11. A bug has been identified in that the position in the target picture rather than the coded picture should be used. Should look at all proposals to select how to fix. Further discussion.

Item 8 is related to JVET-AL0122 item 10 and JVET-AL0098 item 4. If no action is taken there, this item should be agreed. Further discussion.

Item 9 proposes 3 solution options to enforcing chroma alignment. JVET-AL0122 item 7 relates to the second part of solution 1. JVET-AL0129 item 11 is related to the first part of solution 1.

Y.-K. Wang to provide a summary of related PRI proposals to make it easier to compare the alternative related proposals.

CITATION

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