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29/WG 11**

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Title: **AhG9: On prefix and suffix APSs**

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Purpose: Proposal

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Abstract

In this contribution, it is reported that the random access or the bitstream extraction operations starting at an IRAP picture may lead to the generation of non-conformant bitstream due to the obligation of copying all the needed APS before the IRAP. This is particularly the case when a PU with slices refers to APSs signalled in a previous PU. To solve this issue, it is proposed:

To constrain suffix APS NAL units to be located after the last VCL NAL unit of the PU.

To allow prefix and suffix APS NAL units with particular APS identifier and type to have different content.

Second, it is reported that the VVC Draft 8 does not constrain two slices of a PU to refer to two APSs with a particular value of `adaptation_parameter_set_id` and a particular value of `aps_params_type` but with different contents when one of the APSs is within a previous PU. In addition to the previous constraints, it is proposed:

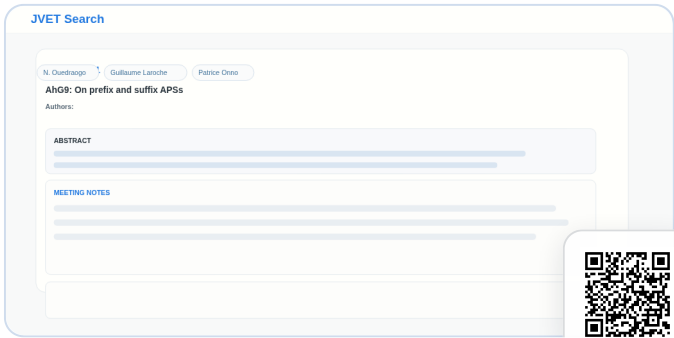
To constrain prefix APS NAL unit to be located before the first VCL NAL unit of the PU.

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CARD

JVET-R0201

<http://vexpertise.stbit.ru/documents/JVET-R0201>



ARCHIVE

archive v1

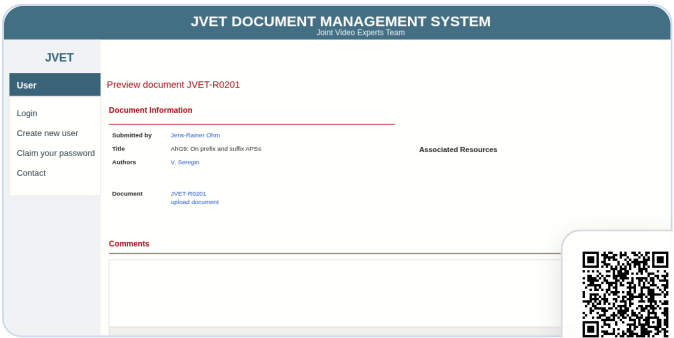
https://jvet-experts.org/doc_end_user/documents/18_Alpbach/wg11/JVET-R0201-v1.zip



SOURCE

external source

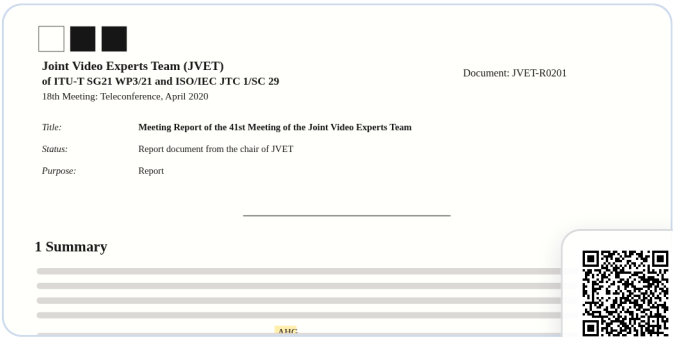
https://jvet-experts.org/doc_end_user/current_document.php?id=9845



MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2020_04_R_Alpbach/JVET-R_Notes_dH.docx



MEETING NOTES

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N. Ouedraogo, G. Laroche, P. Onno, "AhG9: On prefix and suffix APSs", JVET-R0201, 18th Meeting: Teleconference, April 2020.

REFERENCES

1. [Hendry, J. Chen, Y.-K. Wang, "AHG17: On adaptation parameter set", JVET-P0122, 16th Meeting: Geneva, October 2019.](#)