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29/WG 11**

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Title: AHG9: on constraint flag for local chroma QP control

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Purpose: Proposal

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Abstract

The constraint flags defined in the current VVC draft allow disabling local luma QP control, using `no_qp_delta_constraint_flag`. This contribution proposes several methods to allow constraint flags to disable local chroma QP control too.

Introduction

In VVC draft 8, the general constraint flags (`general_constraint_info`) allow disabling local luma QP-delta using `no_qp_delta_constraint_flag`, but local chroma QP adjustment can not be disabled with a constraint flag.

`no_qp_delta_constraint_flag` equal to 1 specifies that it is a requirement of bitstream conformance that `cu_qp_delta_enabled_flag` shall be equal to 0. `no_qp_delta_constraint_flag` equal to 0 does not impose such a constraint.

Since local chroma QP control feature is expected to be disabled in some profiles, this contribution proposes several options to allow disabling of local chroma QP adjustments.

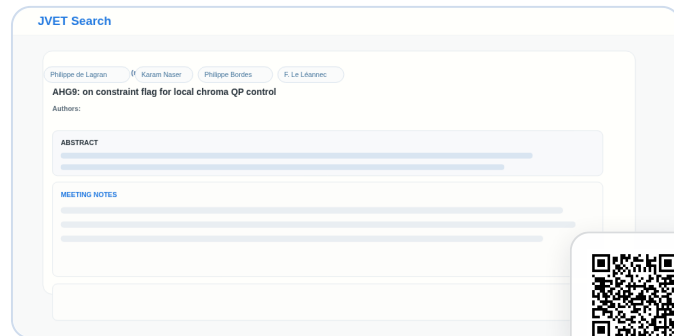
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JVET-R0341

<http://vexpertise.stbit.ru/documents/JVET-R0341>



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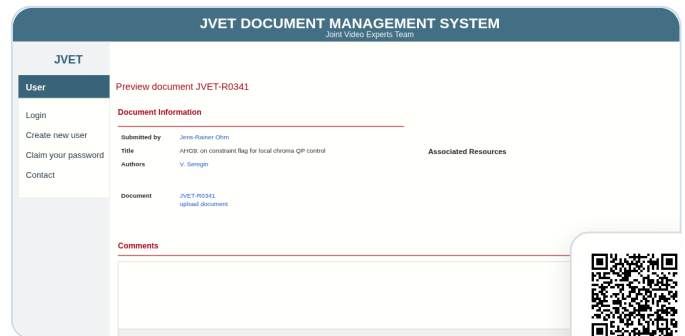
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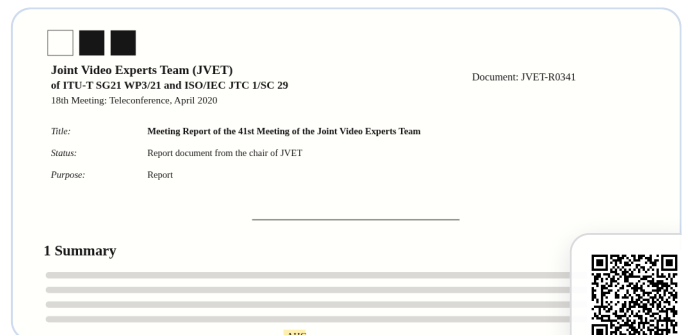
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MEETING NOTES

external meeting notes

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



MEETING NOTES

[JVET-R0341](#) AHG9: on constraint flag for local chroma QP control [Philippe de Lagrange, Karam Naser, Philippe Bordes, Fabrice Le Léannec (InterDigital)]

The constraint flags defined in the current VVC draft allow disabling local luma QP control, using `no_qp_delta_constraint_flag`. This contribution proposes several methods to allow constraint flags to disable local chroma QP control too.

The proponent suggested to focus only on option 2, which proposes a `no_chroma_qp_offset_constraint_flag`.

Decision (general constraints cleanup): Adopt option 2.

This section was completed on Thursday 23 April at approximately 1715 UTC.

Parameter sets cleanups (21)

General (1)

CITATION

P. de Lagrange, K. Naser, P. Bordes, F. Le Léannec, "AHG9: on constraint flag for local chroma QP control", JVET-R0341, 18th Meeting: Teleconference, April 2020.