

**Joint Video Experts Team (JVET)
of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC
29/WG 11**

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Title: AHG9: Decoding Capability Information and PTL Signalling

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Purpose: Proposal

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Abstract

Following is proposed related to DCI and PTL signalling:

Proposal 1: It is proposed that `dc_max_sublayers_minus1` syntax element be removed and instead those bits and the reserved zero bit be used for the syntax element `dc_num_ptls_minus1`.

Proposal 2: It is proposed to rearrange the syntax elements in profile-tier-level signalling structure such that `general_level_idc` syntax element which is unconditionally signalled is first in the structure and the other conditional signalling which is all based on `profileTierPresentFlag` is together, thus requiring only a single if check.

Proposal 3: It is proposed to conditionally signal `sps_ptl_dpb_hrd_params_present_flag` only when `sps_video_parameter_set_id` is not equal to 0.

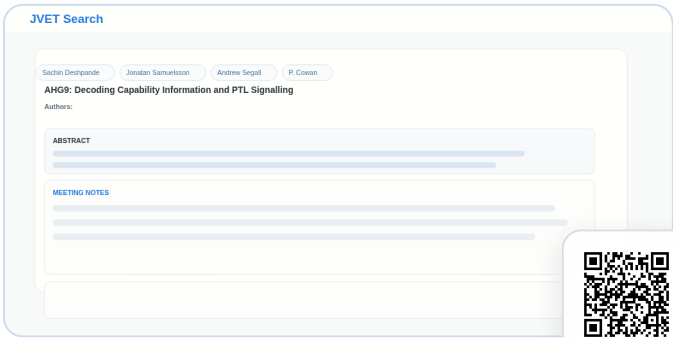
Introduction

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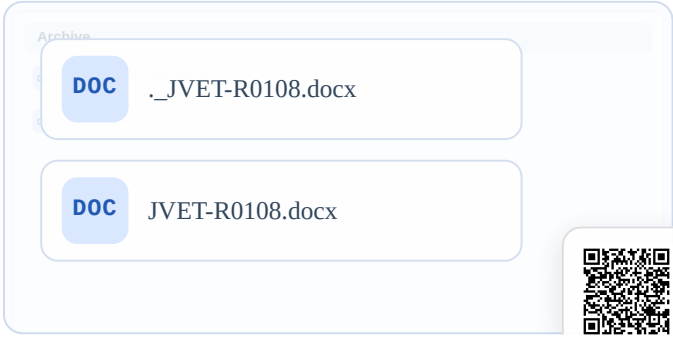
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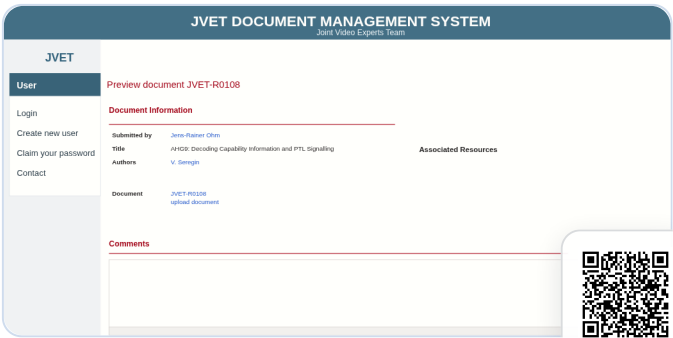
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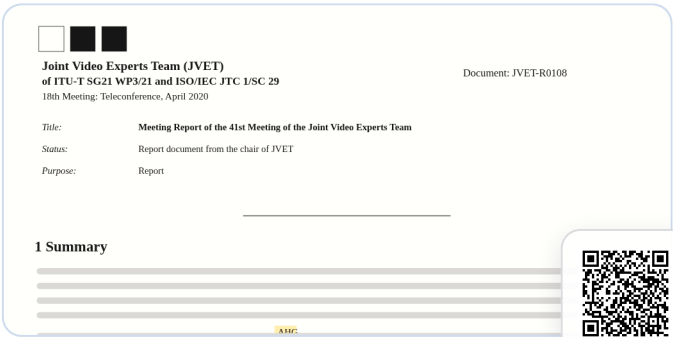
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MEETING NOTES

external meeting notes

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



MEETING NOTES

[JVET-R0108](#) AHG9: Decoding Capability Information and PTL Signalling [S. Deshpande, J. Samuelsson, A. Segall, P. Cowan (Sharp)]

Discussed in AHG Session 1.5 Tuesday 7 April at 1410 UTC (chaired by GJS, YKW, JRO & JB).

Following is proposed related to DCI and PTL signalling:

- Proposal 1: It is proposed that `dc_max_sublayers_minus1` syntax element be removed and instead those bits and the reserved zero bit be used for the syntax element `dc_num_ptls_minus1`.
- Proposal 2: It is proposed to rearrange the syntax elements in profile-tier-level signalling structure such that `general_level_idc` syntax element, which is unconditionally signalled, is first in the structure and the other conditional signalling, which is all based on `profileTierPresentFlag` is together, thus requiring only a single if check.
- Proposal 3: It is proposed to conditionally signal `sps_ptl_dpb_hrd_params_present_flag` only when `sps_video_parameter_set_id` is not equal to 0.

Proposal 1:

It was commented that the added semantics constraint on `vps_num_ptls_minus1` has a problem.

It was suggested to use 4 reserved bits instead of having 8 bits for the number of PTL structures.

Comment: The current extension mechanism for DCI is a bit heavy.

Suggestion: Reserve a value of `dc_num_ptls_minus1`, e.g., 15.

AHG recommendation (cleanup): Remove the `dc_max_sublayers_minus1` SE, but to use 4 reserved bits (at the begin of the DCI syntax) instead of having 8 bits for the number of PTL structures (as proposed), and reserve the value 15 of `dc_num_ptls_minus1`.

Proposal 2:

Comments: This makes level goes before profile and tier, while the interpretation of level typically depends on profile.

Comments: The GCI syntax structure can be of variable length. The proposed change makes level at fixed position.

No action was taken on this item.

Proposal 3: See notes in 6.1.6.1.

After discussion of this, at the end of AHG session 1.5, the information contribution JVET-R0243 was discussed. See the notes for that contribution, which have been moved to section 4.5.

CITATION

S. Deshpande, J. Samuelsson, A. Segall, P. Cowan, "AHG9: Decoding Capability Information and PTL Signalling", JVET-R0108, 18th Meeting: Teleconference, April 2020.

REFERENCES

1. [B. Bross, J. Chen, S. Liu, Y.-K. Wang, "Versatile Video Coding \(Draft 8\)", JVET-Q2001, 17th Meeting: Brussels, January 2020.](#)