

**Joint Video Experts Team (JVET)
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29/WG 11**

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Abstract

This document proposes to support subpicture-based RoI scalability in which higher layers use only a subset of subpictures of the reference layers. Such a reduced subpicture reference (RSR) mode brings along benefits in terms of bitrate and decoder level requirements.

It is proposed to an indication about RSR mode to OLS and PTL signalling.

Introduction

Subpictures in layered bitstreams can be used for RoI scalability where only the lower layer is divided into subpictures according to the RoI. In such subpicture-based RoI scalability scenarios, higher layers improve upon the RoI subpicture in terms of fidelity or resolution.

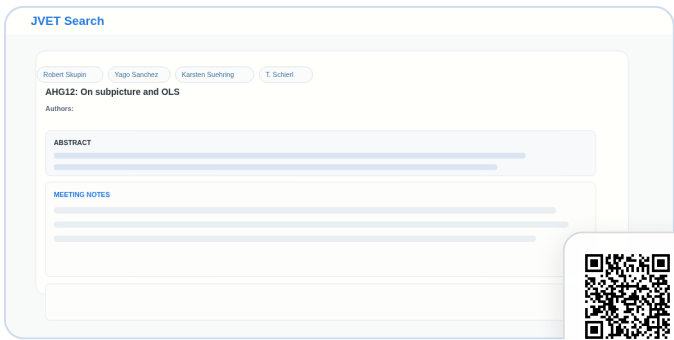
The following Figure 1 shows an example of subpicture-based RoI scalability where the spatial enhancement layer uses only the center RoI subpicture of the base layer for reference.

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CARD

JVET-Q0405

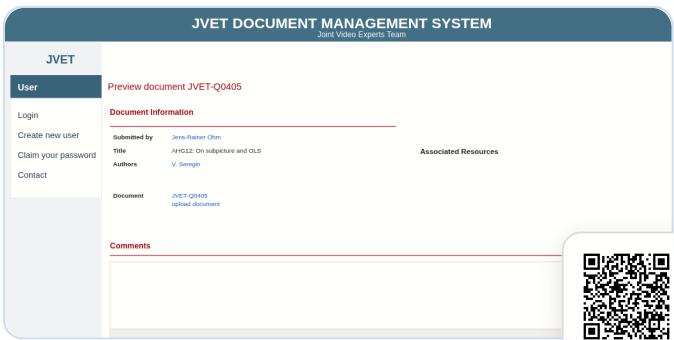
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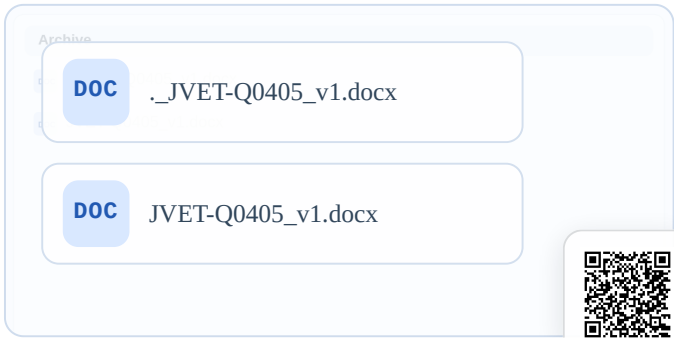
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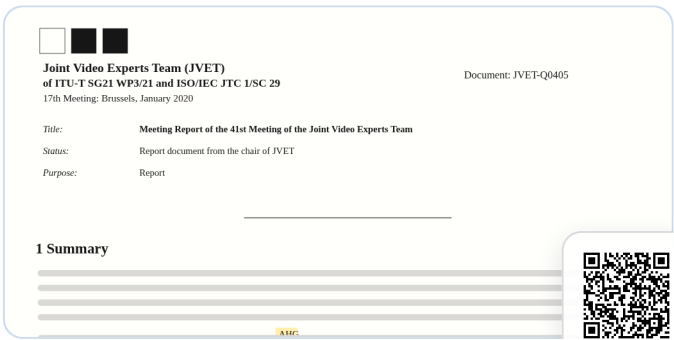
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MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2020_01_Q_Brussels/JVET-Q_Notes_dI.docx



MEETING NOTES

JVET-Q0405 AHG12: On subpicture and OLS [R. Skupin, Y. Sanchez, K. Sühling, T. Schierl (HHI)]

High level tool control (12)

See also the notes on the BoG report JNET-Q0625.

CITATION

R. Skupin, Y. Sanchez, K. Suehring, T. Schierl, "AHG12: On subpicture and OLS", JVET-Q0405, 17th Meeting: Brussels, January 2020.