

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

Document: JVET-R0337-v2

MPEG: m53322

18th Meeting: Teleconference, April 2020

Title: AHG12: Subpicture with filler slice for merged stream

Status: Input document to JVET

Purpose: Proposal

**Author(s) or
Contact(s):** [K. Kawamura](#) | ki-kamura@kddi.com (KDDI)
[S. Naito](#) | sei@kddi-research.jp (KDDI)
Kei Kawamura | kei@kddilabs.jp | submitter

Source: KDDI

HEADER EXCERPT FROM SOURCE DOCUMENT

Abstract

This contribution proposes to enable signalling subpicture with filler slice for simple and flexible subpicture merging. For enabling filler subpicture, a filler subpicture flag is introduced. A decoding process of the filler slice is defined as normative or non-normative approaches.

Introduction

One of the merge use cases is adaptive 360-cubemap streaming. This use case is shown in the JVET-P0233 at the previous JVET meeting. The following example is borrowed from JVET-P0233. Three resolution types such as high, middle, low are defined. One case is combination of high and middle resolution while another case is combination of middle and low resolution. The latter case contains filler subpicture because picture is partitioned into subpictures. In other words, filler picture is missing functionality of the VVC bitstream-extraction-and-merger use-cases.

Two benefits are realized by normatively introducing a filler subpicture flag in SPS. Firstly, a system layer can identify which subpicture contains the content or the filler. Secondly, some decoder can ignore the filler slice without decoding process while other decoder can decode bitstream as a whole picture.

Built from JVET-R0337.docx

CARD

JVET-R0337

<http://vexpertise.stbit.ru/documents/JVET-R0337>

The image shows a screenshot of the JvET Search web application. At the top, the text 'JVET Search' is displayed in blue. Below this, a search bar contains the text 'K. Kawamura', followed by a magnifying glass icon, 'S. Naito', and a dropdown arrow. To the right of the search bar, the text 'Ken Kawamura' is visible. Below the search bar, the search results are displayed. The first result is 'AHG12: Subpicture with filler slice for merged stream'. Below this title, the text 'Authors:' is followed by a blue bar. Below the blue bar, the text 'ABSTRACT' is displayed. Below the 'ABSTRACT' text, there are three horizontal bars. Below the horizontal bars, the text 'MEETING NOTES' is displayed. Below the 'MEETING NOTES' text, there are three horizontal bars. In the bottom right corner, there is a QR code.

ARCHIVE

archive v2

https://jvet-experts.org/doc_end_user/documents/18_Alpbach/wg11/JVET-R0337-v2.zip

SOURCE

external source

https://jvet-experts.org/doc_end_user/current_document.php?id=9981

The screenshot displays the 'JVET Document Management System' interface. At the top, a dark blue header contains the system name and the subtitle 'Joint Ad-hoc Experts Team'. On the left, a light blue sidebar lists user actions: 'User', 'Login', 'Create new user', 'Claim your password', and 'Contact'. The main content area is white and features a red header 'Preview document JVET-R0337'. Below this, a section titled 'Document Information' is separated by a red line. It contains details about the submission by 'Jens-Peter Oden' (JPO12) and the author 'V. Semgin'. To the right, under 'Associated Resources', there is a table with one entry: 'JVET-R0337' with a link to the 'original document'. A 'Comments' section at the bottom is also separated by a red line and contains an empty text area. A QR code is visible in the bottom right corner of the interface.

MEETING NOTES

external meeting notes

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

  		
Joint Video Experts Team (JVET) of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29 18th Meeting: Teleconference, April 2020		Document: JVET-R0337
<i>Title:</i>	Meeting Report of the 41st Meeting of the Joint Video Experts Team	
<i>Status:</i>	Report document from the chair of JVET	
<i>Purpose:</i>	Report	

1 Summary









MEETING NOTES

[JVET-R0337](#) AHG12: Subpicture with filler slice for merged stream [K. Kawamura, S. Naito (KDDI)]

Subpicture layout signalling (4)

CITATION

K. Kawamura, S. Naito, "AHG12: Subpicture with filler slice for merged stream", JVET-R0337, 18th Meeting: Teleconference, April 2020.

REFERENCES

1. [B.-K. Lee, D. Jun, "AHG12: Signaling of tile and brick information", JVET-P0233, 16th Meeting: Geneva, October 2019.](#)