

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

18th Meeting: Teleconference, April 2020

Document: JVET-R2002-v2

MPEG: m53984

Title: **Algorithm description for Versatile Video Coding and Test Model 9 (VTM 9)**

Status: Input document to JVET

Purpose: Proposal

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Abstract

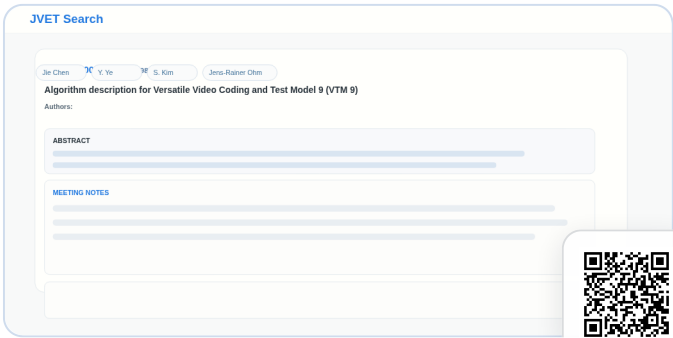
The JVET established the Versatile Video Coding (VVC) working draft and the VVC Test Model (VTM9) algorithm description and encoding method at its meeting (2020,). This document serves as a source of general tutorial information on the VVC design and also provides an encoder-side description of VTM9. The VVC has been developed by a joint collaborative team of ITU-T and ISO/IEC experts known as the Joint Video Experts Team (JVET), which is a partnership of ITU-T Study Group 16 Question 6 (known as VCEG) and ISO/IEC JTC 1/SC 29/WG 11 (known as MPEG). This draft new standard has been designed with two primary goals. The first of these is to specify a video coding technology with a compression capability that is substantially beyond that of the prior generations of such standards, and the second is for this technology to be highly versatile for effective use in a broadened range of applications. Some key application areas for the use of this standard particularly include ultra-high-definition video (e.g., with 3840×2160 or 7620×4320 picture resolution and bit depth of 10 or 12 bits as specified in Rec. ITU-R BT.2100), video with a high dynamic range and wide colour gamut (e.g., with the perceptual quantization or hybrid log-gamma transfer characteristics specified in Rec. ITU-R BT.2100), and video for immersive media applications such as 360° omnidirectional video projected using a common projection format such as the equirectangular or cubemap projection format, in addition to the applications that have commonly been addressed by prior video coding standards.

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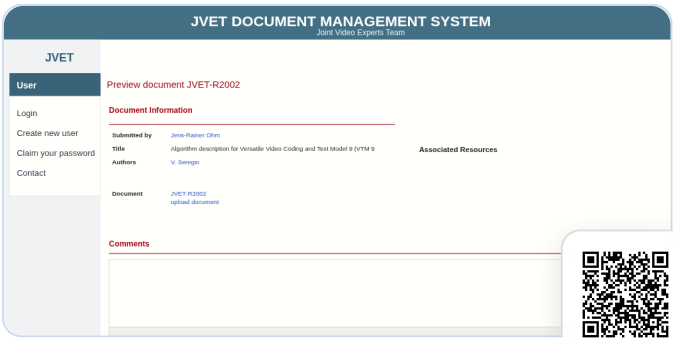
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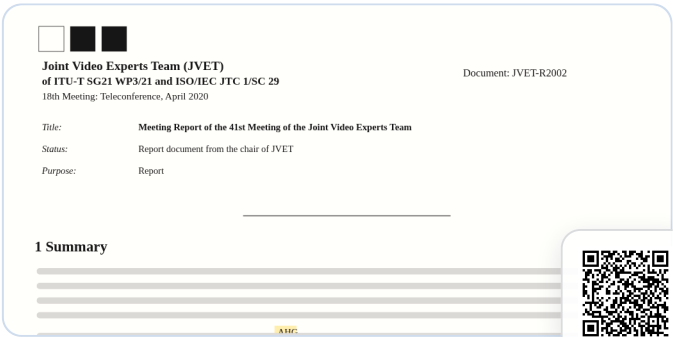
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MEETING NOTES

external meeting notes

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



MEETING NOTES

JVET-R2002 Algorithm description for Versatile Video Coding and Test Model 9 (VTM 9) [J. Chen, Y. Ye, S. Kim] [WG 11 N 19195] (2019-06-05)

(Initial version planned to be made available by 2020-05-22.)

Request for ISO/IEC 23090-16 reference software specification in WG 11 N 19202.

Software release of the 9.0 version was expected by 2020-05-15.

Remains valid – not updated: [JVET-N1003](#) Guidelines for VVC reference software development [K. Sührling] (2019-03-28)

Remains valid – not updated: [JVET-Q2004](#) Algorithm descriptions of projection format conversion and video quality metrics in 360Lib (Version 10)
[Y. Ye, J. Boyce] (2020-03-06)

CITATION

J. Chen, Y. Ye, S. Kim, "Algorithm description for Versatile Video Coding and Test Model 9 (VTM 9)", JVET-R2002, 18th Meeting: Teleconference, April 2020.

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