

**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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39th Meeting, Daejeon, KR, 26 June - 4 July 2025

Title: AHG18: Proposed methodology and test conditions for ultra-low latency and error resilience performance evaluation

Status: Input document to JVT

Purpose: Proposal

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Source: Huawei

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Abstract

In 37th JVT an AHG18 on ultra-low latency and packet loss resilience was established. This contribution proposes evaluation methodology and test conditions suggested to be used for performance assessment in context of the AHG18 work. The document proposes objective quality metrics to be evaluated, and corresponding excel template for quality plots construction and summary collecting.

Introduction

The contribution proposes to use objective quality indicators such as average PSNR, worst-case PSNR, and frame freeze ratio to assess the reconstruction quality in ultra-low latency and packet loss resilience conditions. At the same time, it is understood that in presence packet loss and freeze conditions objective numbers may not fully reflect the perceived quality. It is anticipated that further subjective quality evaluation may be required to verify and confirm the conclusions made based on objective numbers.

Proposed test conditions mainly correspond to general purpose content screen casting scenario aiming to provide high resolution, high reconstruction quality and high user experience.

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LINKS

CARD

JVET-AL0176

<http://vexpertise.stbit.ru/documents/JVET-AL0176>

The image shows a screenshot of the JvET Search interface. At the top, there is a search bar with the text "JvET Search". Below the search bar, there is a list of authors: "Sergey Ikonin", "Xiang Ma", "I. Gribushin", "M. Sychev", and "Elena Alshina". The main title of the search result is "AHG18: Proposed methodology and test conditions for ultra-low latency and error resilience perfo". Below the title, there is a section for "Authors:". The interface also includes sections for "ABSTRACT" and "MEETING NOTES". A QR code is visible in the bottom right corner of the image.

SOURCE

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ARCHIVE

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Archive

- DOC** JVET-AL0176-v2-clean.docx
- DOC** JVET-AL0176-v2.docx
- XLS** ULL_Template_v2.xlsm



MEETING NOTES

external meeting notes

http://vexpertise.stbit.ru/meeting-notes/source/meeting_38_al

  		Document: JVET-AL0176	
Joint Video Experts Team (JVET)			
of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29			
39th Meeting, Daejeon, KR, March 2025			
Title:	Meeting Report of the 41st Meeting of the Joint Video Experts Team		
Status:	Report document from the chair of JVET		
Purpose:	Report		
1 Summary			
			

MEETING NOTES

JVET-AL0176 AHG18: Proposed methodology and test conditions for ultra-low latency and error resilience performance evaluation [S. Ikonin, X. Ma, I. Gribushin, M. Sychev, E. Alshina (Huawei)]

In 37th JVET an AHG18 on ultra-low latency and packet loss resilience was established. This contribution proposes evaluation methodology and test conditions suggested to be used for performance assessment in context of the AHG18 work. The document proposes objective quality metrics to be evaluated, and corresponding excel template for quality plots construction and summary collecting.

It was suggested to conduct visual comparison in the next meeting, e.g. comparing PSNR of frozen frames and corrupted reference against the subjective quality.

It was suggested that other concealment methods used during AVC and SHVC (MANE) development might also be considered in the future. Also test conditions used by that time should be studied.

CITATION

S. Ikonin, X. Ma, I. Gribushin, M. Sychev, E. Alshina, "AHG18: Proposed methodology and test conditions for ultra-low latency and error resilience performance evaluation", JVET-AL0176, 39th Meeting: Daejeon, KR, March 2025.