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Title: AHG9: Enable the use of segmentation planes with the DI SEI message

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Purpose: Proposal

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Abstract

This contribution proposes to enable the use of a segmentation plane auxiliary picture with the Danmu Information (DI) SEI message, to support the function of face area avoidance. In detail, it is proposed to indicate a specific layer among the segmentation auxiliary layers associated with the same primary layer with an index `di_segment_layer_idx`. Additionally, the presence of `di_segment_layer_idx` is gated by `di_segment_channel_adaptation_flag` equal to 1.

Introduction

In certain advanced Danmu display platform, a range of user-friendly and intelligent functions are offered to enhance viewing experience by reducing visual interference.

As shown in Figure 1, the key feature is supporting face area avoidance, by identifying human faces in the video via client-side AI functionality, where Danmus will avoid face areas to keep the clear visibility of character expressions and key facial details.

However, the effect of the client-side AI functionality is not stable, where the Danmu display cannot avoid face areas precisely.

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MEETING NOTES

[JVET-AP0153](#) AHG9: Enable the use of segmentation planes with the DI SEI message [S. Xie, P. Wu, Y. Gao, W. Niu, Y. Bai (ZTE)]

This contribution proposes to enable the use of a segmentation plane auxiliary picture with the Danmu Information (DI) SEI message, to support the function of face area avoidance. In detail, it is proposed to indicate a specific layer among the segmentation auxiliary layers associated with the same primary layer with an index `di_segment_layer_idx`. Additionally, the presence of `di_segment_layer_idx` is gated by `di_segment_channel_adaptation_flag` equal to 1.

Proposal is related to previous proposal JVET-AN0259, but uses an associated picture segmentation information SEI and auxiliary layer.

It was questioned if it is the most appropriate solution to signal this information rather than leaving freedom to the receiver.

Colour mapping information (CMI) SEI message (4)

Contributions in this area were discussed during 1500–1530 on Thursday 30 April 2026 (chaired by J. Boyce).

CITATION

S. Xie, P. Wu, Y. Gao, W. Niu, Y. Bai, "AHG9: Enable the use of segmentation planes with the DI SEI message", JVET-AP0153, 42nd Meeting: Santa Eulària, ES, April 2026.