

**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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Title: AHG9: On SEI message types indicated by an SPO SEI message

Status: Input document to JVET

Purpose: Proposal

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Source: ByteDance, Nokia, Qualcomm

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Abstract

This document contains the draft text for changes to the versatile supplemental enhancement information messages for coded video bitstreams (VSEI) standard (Rec. ITU-T H.274 | ISO/IEC 23002-7), to specify 15 additional SEI messages, namely 1) SEI processing order, 2) processing order nesting, 3) encoder optimization information, 4) source picture timing information, 5) object mask information, 6) modality information, 7) text description information, 8) digitally signed content initialization, 9) digitally signed content selection, 10) digitally signed content verification, 11) generative face video, 12) generative face video enhancement, 13) AI usage restrictions, 14) packed regions information, and 15) image format metadata. The changes also include updates to some of the existing SEI messages, including the two neural-network post-filter (NNPF) SEI messages, as well as some corrections to the previous version of the VSEI standard.

Editors' notes and changes yet to be integrated:

All automatically generated numbering and cross-reference fields will need to be updated after the changes are integrated into the basis text. Check the use of “pertain”; the word is not used in a similar way anywhere in the existing standard.

Built from JVET-AM0321-vseiSpecText-v1.docx

LINKS

CARD

JVET-AM0321

<http://vexpertise.stbit.ru/documents/JVET-AM0321>

A screenshot of the JvET Search web application. At the top, the 'JvET Search' logo is on the left, and a search bar with the text 'AHG9: On SEI message types indicated by an SPO SEI message' is on the right. Below the search bar, the authors 'Ye-Kai Wang', 'Mika M. Hannukseni', and 'Yong He' are listed. The main content area has a light blue background and contains two sections: 'ABSTRACT' with a blue heading and a light blue bar, and 'MEETING NOTES' with a blue heading and three light blue bars. A QR code is visible in the bottom right corner of the interface.

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Document Information

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Title

APDCE On-DTE message types indicated by an SPO DTE message

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MEETING NOTES

[JVET-AM0321](#) AHG9: On SEI message types indicated by an SPO SEI message [Y.-K. Wang (Bytedance), M. M. Hannuksela (Nokia), Y. He (Qualcomm)] [late]

Chaired by S. Deshpande on 28 June 2025 during 9:00-9:20

The bullet items 2 and 3 in JVET-AM0121 subclause 5.1 are assertedly describing use cases of SEI message types in different SPO entries being the same. In that case, it is asserted that there is no reason to only allow SEI message types in different SPO entries being the same when PON is involved, but rather, it should be allowed even when PON is not involved.

This contribution proposes an alternative set of text changes that address the same issues as JVET-AM0121 item 5 and JVET-AM0079 item 3. The concrete changes are included in the attachment to this contribution, with changes marked relative to JVET-AL2006-v4-ncm.

In the specification text markup the key technical change proposed is:

The SEI message types indicated in different entries of an SPO SEI message are typically different from each other but some of them may also be the same.

There are also a number of editorial changes proposed.

Decision: Adopt

NNPF SEI extensions (1)

Contributions in this area were discussed during 0900–1000 on Friday 27 June 2025 (chaired by J. Boyce).

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AI usage restrictions (AUR)

CITATION

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