

CLAIMS

1. A method of video processing, comprising:

performing a conversion between a video including one or more layers and a bitstream of the video according to a rule,

wherein the rule specifies, in a process of sub-bitstream extraction, a non-scalable nested supplementary enhancement information (SEI) message is generated by extracting an SEI message that is scalably-nested from a scalable nesting SEI message based on a first flag indicating whether the SEI message applies to specific output layer sets (OLSs) and a second flag indicating whether the SEI message applies to all subpictures or only to specific subpictures.

2. The method of claim 1, wherein the rule specifies to generate the non-scalable nested SEI message responsive to conditions i) the first flag having a first value that specifies that the SEI message applies to specific output layer sets (OLSs) and ii) the second flag having a second value that specifies that the SEI message that applies to the specific OLSs applies to all subpictures of the specified OLSs being satisfied.

3. A method of video processing, comprising:

performing a conversion between a video including one or more layers and a bitstream of the video according to a rule,

wherein the rule specifies, in a process of sub-bitstream extraction, a non-scalable nested supplemental enhancement information (SEI) message is generated by extracting multiple scalable-nested SEI messages from a first SEI network abstraction layer (NAL) unit in a picture unit.

4. The method of claim 3, wherein the multiple scalable-nested SEI messages are included in a second SEI NAL unit included in the picture unit.

5. The method of claim 4, wherein the second SEI NAL unit is immediately after the first SEI NAL unit.

6. A method of video processing, comprising:
 - performing a conversion between a video including one or more layers and a bitstream of the video according to a rule,
 - wherein the rule specifies a sub-bitstream extraction process to generate an output bitstream,
 - wherein the rule specifies handling of one or more supplemental enhancement information (SEI) network abstraction layer (NAL) units during the sub-bitstream extraction process.
7. The method of claim 6, wherein the rule specifies to remove the one or more SEI NAL units from which some SEI messages have been extracted and included as non-scalable nested SEI messages.
8. The method of claim 6, wherein the rule specifies to remove a SEI NAL unit that contains a scalable-nested SEI message applying only to a target output layer set.
9. The method of claim 6, wherein the rule specifies to remove a SEI NAL unit that contains a scalable nested SEI message that applies to output layer sets (OLSs) in which there is no OLS other than a target OLS.
10. The method of any of claims 1 to 9, wherein the conversion includes encoding the video into the bitstream.
11. The method of any of claims 1 to 9, wherein the conversion includes decoding the video from the bitstream.
12. The method of any of claims 1 to 9, wherein the conversion includes generating the bitstream from the video, and the method further comprises: storing the bitstream in a non-transitory computer-readable recording medium.
13. A video processing apparatus comprising a processor configured to implement a method recited in any one or more of claims 1 to 12.

14. A method of storing a bitstream of a video, comprising, a method recited in any one of claims 1 to 12, and further including storing the bitstream to a non-transitory computer-readable recording medium.

15. A computer readable medium storing program code that, when executed, causes a processor to implement a method recited in any one or more of claims 1 to 12.

16. A computer readable medium that stores a bitstream generated according to any of the above described methods.

17. A video processing apparatus for storing a bitstream representation, wherein the video processing apparatus is configured to implement a method recited in any one or more of claims 1 to 12.