# CLAIMS

What is claimed is:

1. A method implemented by a decoder, the method comprising:

receiving, by a receiver of the decoder, a bitstream comprising one or more layers and a scalable nesting supplemental enhancement information (SEI) message, wherein the scalable nesting SEI message includes one or more scalable-nested SEI messages and a scalable nesting output layer set (OLS) flag, and wherein the scalable nesting OLS flag is set to specify whether the scalable-nested SEI messages apply to specific OLSs or specific layers; and

decoding, by a processor of the decoder, a coded picture from the one or more layers, based on the scalable-nested SEI messages, to produce a decoded picture;

wherein the scalable nesting SEI message includes a scalable nesting number of OLSs minus one (num_olss_minus1) syntax element when the scalable nesting OLS flag is set to one, and wherein the scalable nesting num_olss_minus1 syntax element specifies a number of OLSs to which the scalable-nested SEI messages apply, and wherein a value of the scalable nesting num_olss_minus1 syntax element is in a range of zero to a total number of OLSs (TotalNumOlss) − 1, inclusive.

2. The method of claim 1, wherein the scalable nesting OLS flag is set to one when specifying that the scalable-nested SEI messages apply to specific OLSs, and wherein the scalable nesting OLS flag is set to zero when specifying that the scalable-nested SEI messages apply to specific layers.

3. The method of any of claims 1-2, wherein the scalable nesting OLS flag is set to one when the scalable nesting SEI message contains an SEI message that has a payload type of buffering period, picture timing, or decoding unit information.

4. A video coding device comprising:

a processor, a receiver coupled to the processor, a memory coupled to the processor, and a transmitter coupled to the processor, wherein the processor, receiver, memory, and transmitter are configured to perform the method of any of claims 1-3.

5. A non-transitory computer readable medium comprising executable instructions for use by a video coding device, the executable instructions stored on the non-transitory computer readable medium such that when executed by a processor cause the video coding device to perform the method of any of claims 1-3.

6. A decoder comprising:

a receiving means for receiving a bitstream comprising one or more layers and a scalable nesting supplemental enhancement information (SEI) message, wherein the scalable nesting SEI message includes one or more scalable-nested SEI messages and a scalable nesting output layer set (OLS) flag, and wherein the scalable nesting OLS flag is set to specify whether the scalable-nested SEI messages apply to specific OLSs or specific layers;

a decoding means for decoding a coded picture from the one or more layers, based on the scalable-nested SEI messages, to produce a decoded picture; and

a forwarding means for forwarding the decoded picture for display as part of a decoded video sequence;

wherein the scalable nesting SEI message includes a scalable nesting number of OLSs minus one (num_olss_minus1) syntax element when the scalable nesting OLS flag is set to one, and wherein the scalable nesting num_olss_minus1 syntax element specifies a number of OLSs to which the scalable-nested SEI messages apply, and wherein a value of the scalable nesting num_olss_minus1 syntax element is in a range of zero to a total number of OLSs (TotalNumOlss) − 1, inclusive.

7. The decoder of claim 6, wherein the decoder is further configured to perform the method of any of claims 1-3.