CLAIMS

What is claimed is:

1. A method of signaling output layer sets in a coded video stream, executable by a processor, comprising:

receiving video data having multiple layers;

identifying one or more first syntax elements specifying one or more output layer sets corresponding to output layers from among the multiple layers of the received video data; and

decoding and displaying the one or more output layers corresponding to the specified output layer sets;

wherein the one or more syntax elements are signaled in a high-level syntax structure,

wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message, and

wherein the sequence parameter set is available to the decoding prior to the sequence parameter set being referenced by one or more picture parameter sets.

~~2. The method of claim 1, wherein the one or more syntax elements are signaled in a high-level syntax structure.~~

~~3. The method of claim 2, wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message.~~

2~~4~~. The method of claim 1, further comprising:

specifying a number of the one or more output layer sets; and

signaling a number of output layers by setting an output layer flag.

5~~3~~. The method of claim 1, further comprising identifying one or more second syntax elements specifying profile tier level information for each of the one or more output layer sets.

6~~4~~. The method of claim 5~~3~~, wherein the one or more second syntax elements are

signaled in a high-level syntax structure.

~~7~~5. The method of claim ~~6~~4, wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message.

~~8~~6. The method of claim ~~5~~3, further comprising:

specifying a number of profile tier level information for each of the one or more output layer sets; and

signaling, for each of the one or more output layer sets, a set of syntax elements corresponding to profile tier level information, or an index indicating a profile tier level information entry from among the profile tier level information.

~~9~~7. The method of claim 1, further comprising signaling one or more third syntax elements indicating a subpicture identifier corresponding to each output layers associated with the one or more output layer sets.

~~10~~8. The method of claim ~~9~~7, wherein the subpicture identifier is signaled in a high-level syntax structure comprising one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message.

~~11~~9. A computer system signaling output layer sets in a coded video stream, the computer system comprising:

one or more computer-readable non-transitory storage media configured to store computer program code; and

one or more computer processors configured to access said computer program code and operate as instructed by said computer program code, said computer program code including:

receiving code configured to cause the one or more computer processors to receive video data having multiple layers;

identifying code configured to cause the one or more computer processors to

identify one or more first syntax elements specifying one or more output layer sets corresponding to output layers from among the multiple layers of the received video data; and

decoding and displaying code configured to cause the one or more computer processors to decode and display the one or more output layers corresponding to the specified output layer sets,

wherein the one or more syntax elements are signaled in a high-level syntax structure,

wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message, and

wherein the sequence parameter set is available to the decoding prior to the sequence parameter set being referenced by one or more picture parameter sets.

~~12. The computer system of claim 11, wherein the one or more syntax elements are signaled in a high-level syntax structure.~~

~~13. The computer system of claim 12, wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message.~~

~~14~~10. The computer system of claim ~~11~~9, further comprising:

specifying code configured to cause the one or more computer processors to specify a number of the one or more output layer sets; and

signaling code configured to cause the one or more computer processors to signal a number of output layers by setting an output layer flag.

~~15~~11. The computer system of claim ~~11~~9, further comprising identifying code configured to cause the one or more computer processors to identify one or more second syntax elements specifying profile tier level information for each of the one or more output layer sets.

~~16~~12. The computer system of claim ~~15~~11, wherein the one or more second syntax elements are signaled in a high-level syntax structure.

~~17~~13. The computer system of claim ~~16~~12, wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message.

~~18~~14. The computer system of claim ~~15~~11, further comprising:

specifying code configured to cause the one or more computer processors to specify a number of profile tier level information for each of the one or more output layer sets; and

signaling code configured to cause the one or more computer processors to signal, for each of the one or more output layer sets, a set of syntax elements corresponding to profile tier level information, or an index indicating a profile tier level information entry from among the profile tier level information.

~~19~~15. The computer system of claim ~~11~~9, further comprising signaling code configured to cause the one or more computer processors to signal one or more third syntax elements indicating a subpicture identifier corresponding to each output layers associated with the one or more output layer sets.

~~20~~16. A non-transitory computer readable medium having stored thereon a computer program for signaling output layer sets in a coded video stream, the computer program configured to cause one or more computer processors to:

receive video data having multiple layers;

identify one or more first syntax elements specifying one or more output layer sets corresponding to output layers from among the multiple layers of the received video data; and

decode and display the one or more output layers corresponding to the specified output layer sets,

wherein the one or more syntax elements are signaled in a high-level syntax structure,

wherein the high-level syntax structure comprises one from among: a video parameter set, a dependency parameter set, a sequence parameter set, a picture parameter set, an adaptation parameter set, and a supplementary enhancement information message, and

wherein the sequence parameter set is available to the decoding prior to the sequence parameter set being referenced by one or more picture parameter sets.