CLAIMS

1. A method for video encoding of a scalable bitstream, the method comprising:

determining at least one video parameter set (VPS) comprising at least one syntax element indicating whether at least one layer in the scalable bitstream is one of a dependent layer of the scalable bitstream and an independent layer of the scalable bitstream;

encoding a picture in the dependent layer by determining an inter-layer reference picture (ILRP) list; and

encoding a picture in an independent layer and another picture in the dependent layer each without determining the ILRP list.

2. The method of claim 1, wherein encoding the picture in the independent layer comprises determining a reference picture list which does not include any encoded picture of another layer.

3. The method of claim 1, wherein the inter-layer reference picture list includes an encoded picture of the other layer.

4. The method of claim 1, wherein determining the at least one VPS further comprises determining whether another syntax element indicates a maximum number of layers.

5. The method of claim 1, wherein determining the at least one VPS further comprises: determining whether the VPS comprises a flag indicating whether another layer in the scalable bitstream is a reference layer for the at least one layer.

6. The method of claim 5, wherein determining the at least one VPS further comprises:

determining whether the flag indicates the other layer as the reference layer for the at least one layer by specifying an index of the other layer and an index of the at least one layer.

7. The method of claim 5, wherein determining the at least one VPS further comprises:

determining whether the flag indicates the other layer as not being the reference layer for the at least one layer by specifying an index of the other layer and an index of the at least one layer.

8. The method of claim 1, wherein determining the at least one VPS further comprises:

determining whether the VPS comprises a flag indicating whether a plurality of layers, including the at least one layer, are to be encoded by interpreting the ILRP list.

9. The method of claim 1, wherein determining the at least one VPS further comprises:

determining whether the VPS comprises a flag indicating whether a plurality of layers, including the at least one layer, are to be encoded without interpreting the ILRP list.

10. The method of claim 1, wherein the ILRP list is signaled with an inter-prediction reference picture (IPRP) list in the VPS.

11. A non-transitory computer-readable storage medium storing a video bitstream that is generated by a video encoding method, the video encoding method comprising:

signaling at least one video parameter set (VPS) in the video bitstream, the VPS indicating information of a scalable bitstream;

encoding a picture in a dependent layer of the scalable bitstream by interpreting an inter-layer reference picture (ILRP) list; and

encoding a picture in an independent layer of the scalable bitstream and another picture in the dependent layer each without interpreting the ILRP list.

12. The non-transitory computer-readable storage medium of claim 11, wherein encoding the picture in the independent layer comprises interpreting a reference picture list.

13.The non-transitory computer-readable storage medium of claim 11, wherein the ILRP list indicates an encoded picture.

14. The non-transitory computer-readable storage medium of claim 11, wherein signaling the at least one VPS further comprises determining whether a syntax element indicates a maximum number of layers.

15. The non-transitory computer-readable storage medium of claim 11, wherein signaling the at least one VPS further comprises determining whether the VPS comprises a flag indicating whether another layer in the scalable bitstream is a reference layer for the at least one layer of the scalable bitstream.

16. The non-transitory computer-readable storage medium of claim 15, wherein signaling the at least one VPS further comprises:

determining whether the flag indicates another layer as the reference layer for the at least one layer by specifying an index of the other layer and an index of the at least one layer.

17. The non-transitory computer-readable storage medium of claim 15, wherein signaling the at least one VPS further comprises:

determining whether the flag indicates another layer as not being the reference layer for the at least one layer by specifying an index of the other layer and an index of the at least one layer.

18. The non-transitory computer-readable storage medium of claim 11, wherein signaling the at least one VPS further comprises:

determining whether the VPS comprises a flag indicating whether a plurality of layers are to be encoded by interpreting the ILRP list.

19. The non-transitory computer-readable storage medium of claim 11, wherein signaling the at least one VPS further comprises:

determining whether the VPS comprises a flag indicating whether a plurality of layers are to be encoded without interpreting the ILRP list.

20. The non-transitory computer-readable storage medium of claim 11, wherein the ILRP list is signaled with an inter-prediction reference picture (IPRP) list in the VPS.

21. An apparatus for video encoding of a scalable bitstream, the apparatus comprising:

at least one memory configured to store computer program code;

at least one processor configured to access the computer program code and operate as instructed by the computer program code, to implement the method of any of claims 1 to 10.