CLAIMS

1. A method of processing video data, the method comprising: obtaining the video data; generating a media format file including the video data; generating, for a sample entry of the media format file, a restricted scheme information box, the sample entry being associated with one or more samples of the video data; and generating, for the restricted scheme information box generated for the sample entry of the media format file, a plurality of scheme type boxes, the plurality of scheme type boxes identifying a plurality of restricted scheme types required for processing the one or more samples of the video data associated with the sample entry.

2. The method of claim 1, wherein each scheme type box of the plurality of scheme type boxes identifies a different restricted scheme type required for processing the video data.

3. The method of claim 1, wherein a scheme type box of the plurality of scheme type boxes identifies a version of a restricted scheme type identified by the scheme type box.

4. The method of claim 1, wherein a scheme type box of the plurality of scheme type boxes includes an identifier identifying a source for data needed to implement a restricted scheme type identified by the scheme type box.

5. The method of claim 1, wherein the restricted scheme information box further includes a plurality of scheme information boxes, and wherein a scheme information box of the plurality of scheme information boxes includes data needed for a restricted scheme type identified by a scheme type box of the plurality of scheme type boxes.

6. The method of claim 1, wherein the media format file is generated using an ISO base media file format (ISOBMFF) or using a media file format derived from the ISO base media file format.

7. The method of claim 1, further comprising transmitting the media format file.

8. The method of claim 1, further comprising storing the media format file.

9. An apparatus for processing video data, comprising: a memory configured to store the video data; and a processor configured to: obtain the video data; generate a media format file including the video data; generate, for a sample entry of the media format file, a restricted scheme information box, the sample entry being associated with one or more samples of the video data; and generate, for the restricted scheme information box generated for the sample entry of the media format file, a plurality of scheme type boxes, the plurality of scheme type boxes identifying a plurality of restricted scheme types required for processing the one or more samples of the video data associated with the sample entry.

10. The apparatus of claim 9, wherein each scheme type box of the plurality of scheme type boxes identifies a different restricted scheme type required for processing the video data.

11. The apparatus of claim 9, wherein a scheme type box of the plurality of scheme type boxes identifies a version of a restricted scheme identified by the scheme type box.

12. The apparatus of claim 9, wherein a scheme type box of the plurality of scheme type boxes includes an identifier identifying a source for data needed to implement a restricted scheme type identified by the scheme type box.

13. The apparatus of claim 9, wherein the restricted scheme information box further includes a plurality of scheme information boxes, and wherein a scheme information box of the plurality of scheme information boxes includes data needed for a restricted scheme type identified by a scheme type box of the plurality of scheme type boxes.

14. The apparatus of claim 9, wherein the media format file is generated using an ISO base media file format (ISOBMFF) or using a media file format derived from the ISO base media file format.

15. The apparatus of claim 9, wherein the processor is configured to transmit the media format

file.

16. The apparatus of claim 9, wherein the processor is configured to store the media format file.

17. The apparatus of claim 9, wherein the apparatus comprises a mobile device with a camera for capturing pictures.

18. A non-transitory computer-readable medium having stored thereon instructions that, when executed by one or more processors, cause the one or more processors to: obtain video data; generate a media format file including the video data; generate, for a sample entry of the media format file, a restricted scheme information box, the sample entry being associated with one or more samples of the video data; and generate, for the restricted scheme information box generated for the sample entry of the media format file, a plurality of scheme type boxes, the plurality of scheme type boxes identifying a plurality of restricted scheme types required for processing the one or more samples of the video data associated with the sample entry.

19. The non-transitory computer-readable medium of claim 18, wherein each scheme type box of the plurality of scheme type boxes identifies a different restricted scheme type required for processing the video data.

20. The non-transitory computer-readable medium of claim 18, wherein a scheme type box of the plurality of scheme type boxes identifies a version of a restricted scheme type identified by the scheme type box.

21. The non-transitory computer-readable medium of claim 18, wherein a scheme type box of the plurality of scheme type boxes includes an identifier identifying a source for data needed to implement a restricted scheme type identified by the scheme type box.

22. The non-transitory computer-readable medium of claim 18, wherein the restricted scheme information box further includes a plurality of scheme information boxes, and wherein a scheme information box of the plurality of scheme information boxes includes data needed for a

restricted scheme type identified by a scheme type box of the plurality of scheme type boxes.

23. The non-transitory computer-readable medium of claim 18, wherein the media format file is generated using an ISO base media file format (ISOBMFF) or using a media file format derived from the ISO base media file format.

24. A method of processing one or more media format files, comprising: obtaining a media format file including video data; obtaining, for a sample entry of the media format file, a restricted scheme information box, the sample entry being associated with one or more samples of the video data; obtaining, from the restricted scheme information box obtained for the sample entry of the media format file, a plurality of scheme type boxes, the plurality of scheme type boxes identifying a plurality of restricted scheme types required for processing the one or more samples of the video data associated with the sample entry; and processing the one or more samples of the video data according to the plurality of restricted scheme types identified by the plurality of scheme type boxes.

25. The method of claim 24, wherein each scheme type box of the plurality of scheme type boxes identifies a different restricted scheme type required for processing the video data.

26. The method of claim 24, wherein a scheme type box of the plurality of scheme type boxes identifies a version of a restricted scheme type identified by the scheme type box.

27. The method of claim 24, wherein a scheme type box of the plurality of scheme type boxes includes an identifier identifying a source for data needed to implement a restricted scheme type identified by the scheme type box.

28. The method of claim 24, wherein the restricted scheme information box further includes a plurality of scheme information boxes, and wherein a scheme information box of the plurality of scheme information boxes includes data needed for a restricted scheme type identified by a scheme type box of the plurality of scheme type boxes.

29. The method of claim 24, wherein the media format file is generated using an ISO base media file format (ISOBMFF) or using a media file format derived from the ISO base media file format.

30. The method of claim 24, further comprising decoding the video data.

31. The method of claim 30, further comprising displaying the decoded video data.

32. An apparatus for processing one or more media format files, comprising: a memory configured to store video data and the one or more media format files; and a processor configured to: obtain a media format file including the video data; obtain, for a sample entry of the media format file, a restricted scheme information box, the sample entry being associated with one or more samples of the video data; obtain, from the restricted scheme information box obtained for the sample entry of the media format file, a plurality of scheme type boxes, the plurality of scheme type boxes identifying a plurality of restricted scheme types required for processing the one or more samples of the video data associated with the sample entry; and process the one or more samples of the video data according to the plurality of restricted scheme types identified by the plurality of scheme type boxes.

33. The apparatus of claim 32, wherein each scheme type box of the plurality of scheme type boxes identifies a different restricted scheme type required for processing the video data.

34. The apparatus of claim 32, wherein a scheme type box of the plurality of scheme type boxes identifies a version of a restricted scheme type identified by the scheme type box.

35. The apparatus of claim 32, wherein a scheme type box of the plurality of scheme type boxes includes an identifier identifying a source for data needed to implement a restricted scheme type identified by the scheme type box.

36. The apparatus of claim 32, wherein the restricted scheme information box further includes a plurality of scheme information boxes, and wherein a scheme information box of the plurality of

scheme information boxes includes data needed for a restricted scheme type identified by a scheme type box of the plurality of scheme type boxes.

37. The apparatus of claim 32, wherein the media format file is generated using an ISO base media file format (ISOBMFF) or using a media file format derived from the ISO base media file format.

38. The apparatus of claim 32, further comprising: a decoder for decoding the video data.

39. The apparatus of claim 38, further comprising: a display for displaying the decoded video data.

40. The apparatus of claim 32, wherein the apparatus comprises a mobile device with a camera for capturing pictures.

41. A non-transitory computer-readable medium having stored thereon instructions that, when executed by one or more processors, cause the one or more processors to: obtain a media format file including video data; obtain, for a sample entry of the media format file, a restricted scheme information box, the sample entry being associated with one or more samples of the video data; obtain, from the restricted scheme information box obtained for the sample entry of the media format file, a plurality of scheme type boxes, the plurality of scheme type boxes identifying a plurality of restricted scheme types required for processing the one or more samples of the video data associated with the sample entry; and process the one or more samples of the video data according to the plurality of restricted scheme types identified by the plurality of scheme type boxes.

42. The non-transitory computer-readable medium of claim 41, wherein each scheme type box of the plurality of scheme type boxes identifies a different restricted scheme type required for processing the video data.

43. The non-transitory computer-readable medium of claim 41, wherein a scheme type box of the

plurality of scheme type boxes identifies a version of a restricted scheme type identified by the scheme type box.

44. The non-transitory computer-readable medium of claim 41, wherein a scheme type box of the plurality of scheme type boxes includes an identifier identifying a source for data needed to implement a restricted scheme type identified by the scheme type box.

45. The non-transitory computer-readable medium of claim 41, wherein the restricted scheme information box further includes a plurality of scheme information boxes, and wherein a scheme information box of the plurality of scheme information boxes includes data needed for a restricted scheme type identified by a scheme type box of the plurality of scheme type boxes.

46. The non-transitory computer-readable medium of claim 41, wherein the media format file is generated using an ISO base media file format (ISOBMFF) or using a media file format derived from the ISO base media file format.