CLAIMS

1. A method of processing video data, the method comprising:

obtaining a plurality of frames of video data, wherein the video data includes a plurality of video samples, each of the plurality of video samples including one or more frames of the plurality of frames;

determining that at least one frame of the plurality of frames of a first video sample of the plurality of video samples is corrupted; and

generating a media file which includes a sample entry (1048a – 1048n) for each video sample of the plurality of video samples, and a sample group description box (1060) that includes sample group type entries (1061), a first entry of the sample group type entries comprising a type identifier which indicates a video sample having at least one frame that is corrupted,

wherein generating the media file comprises associating each video sample of the plurality of video samples with a sample group type entry included in the sample group description box, and

wherein associating each of the plurality of video samples with a sample group type entry comprises associating the first video sample with the first entry, in response to determining that at least one frame of the first video sample is corrupted.

2. A method of processing a media file, the method comprising:

obtaining a media file including media content, wherein the media content includes:

a plurality of video samples, each of the plurality of video samples including one or more frames of the plurality of frames;

a sample entry (1048a-1048n) for each video sample of the plurality of video samples; and

a sample group description box (1060) that includes sample group type entries (1061), a first entry of the sample group type entries comprising a type identifier which indicates a video sample having at least one frame that is corrupted, wherein each video sample of the plurality of video samples is associated with a sample group type entry included in the sample group description box;determining that a first video sample of the plurality of samples is associated with the first entry;

determining, based on the association of the first video sample with the first entry , that the plurality of frames of the first video sample includes at least one corrupted frame; and

processing the at least one corrupted frame.

3. The method of claim 1 or claim 2, wherein the type identifier includes a sample group type.

4. The method of claim 1 or claim 2, wherein the video data includes first data corresponding to the at least one frame of the plurality of frames, and wherein the first data is insufficient for decoding the at least one frame properly.

5. The method of claim 1 or claim 2, wherein the at least one frame is part of an inter-frame prediction chain, wherein the video data includes first data corresponding to the inter-frame predication chain, and wherein the first data is insufficient for decoding the at least one frame properly.

6. The method of claim 1 or claim 2, wherein the media file is based on an International Standards Organization (ISO) base media file format (ISOBMFF).

7. The method of claim 2, wherein the processing the at least one corrupted frame based on the indication comprises:

identifying, based on the indication, a portion of the media content corresponding to the corrupted at least one frame; and

skipping processing of the portion of the media content.

8. An apparatus for processing video data, the apparatus comprising:

a memory configured to store the video data; and

a processor configured to:

obtain a plurality of frames of video data, wherein the video data includes a plurality of video samples, each of the plurality of video samples including one or more frames of the plurality of frames;

determine that at least one frame of the plurality of frames of a first video sample of the plurality of video samples is corrupted; and

generate a media file which includes a sample entry (1048a – 1048n) for each video sample of the plurality of video samples, and a sample group description box (1060) that includes sample group type entries (1061), a first entry of the sample group

type entries comprising a type identifier which indicates a video sample having at least one frame that is corrupted,

wherein generating the media file comprises associating each video sample of the plurality of video samples with a sample group type entry included in the sample group description box, and

wherein associating each of the plurality of video samples with a sample group type entry comprises associating the first video sample with the first entry, in response to determining that at least one frame of the first video sample is corrupted.

9. An apparatus for processing video data, the apparatus comprising:

a memory configured to store the video data; and

a processor configured to:

obtain a media file including media content, wherein the media content includes:

a plurality of video samples, each of the plurality of video samples including one or more frames of the plurality of frames;

a sample entry (1048a-1048n) for each video sample of the plurality of video samples; and

a sample group description box (1060) that includes sample group type entries (1061), a first entry of the sample group type entries comprising a type identifier which indicates a video sample having at least one frame that is corrupted, wherein each video sample of the plurality of video samples is associated with a sample group type entry included in the sample group description box;

determine that a first video sample of the plurality of samples is associated with the first entry;

determine, based on the association of the first video sample with the first entry, that the plurality of frames of the first video sample includes at least one corrupted frame; and

process the at least one corrupted frame.

10. A non-transitory computer-readable medium having stored thereon instructions that, when executed by one or more processors, causes the one or more processors to perform the method according to any of the preceding method claims.