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Amended Set of Claims 1 to 38

1. A method of decoding video data, the method comprising:
determining that a current picture is a broken-link access (BLA) picture; and
marking a reference picture in a picture storage buffer as unused for reference
prior to decoding the BLA picture based on the determination that the
current picture is a BLA picture.
2. The method of claim 1, wherein determining that a current picture is a BLA picture
further comprises determining that the current picture is a clean random access (CRA)
picture and determining that the current picture is a random access picture (RAP).
3. The method of claim 1, wherein determining that the current picture is a BLA picture
is based on a network abstraction layer (NAL) unit type of the current picture.
4. The method of claim 1, further comprising marking the reference picture in the
picture storage buffer when a leading picture comprises a non-decodable leading
picture.
5. The method of claim 1, wherein the picture storage buffer includes a decoded picture
buffer (DPB).
6. The method of claim 1, wherein decoding the BLA picture comprises decoding the
BLA picture in a decoder.
7. The method of claim 1, wherein decoding the BLA picture comprises decoding the
BLA picture in a network element.
8. The method of claim 7, wherein the network element is a Media Aware Network
Element (MANE).
9. The method of claim 7, wherein the network element is a streaming server.

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10. The method of claim 7, wherein the network element is a splicer.
11. The method of claim 1, further comprising decoding the BLA picture without using prior pictures marked as unused for reference.
12. The method of claim 1, further comprising:
- receiving a slice of a current picture to be decoded for a sequence of video data;
 - receiving, in a slice header of the slice, one or more entropy coded syntax elements and at least one non-entropy coded syntax element, wherein the non-entropy coded syntax element is before all of the entropy coded syntax elements in the slice header and indicates whether pictures prior to the current picture in decoding order are to be emptied from a decoded picture buffer without being output; and
 - decoding the slice based on the non-entropy coded syntax element.
13. The method of claim 12, wherein the non-entropy coded syntax element comprises a no_output_of_prior_pics_flag.
14. A device for decoding video data, the device comprising one or more processors configured to:
- determine that a current picture is a broken-link access (BLA) picture; and
 - mark a reference picture in a picture storage buffer as unused for reference prior to decoding the BLA picture based on the determination that the current picture is a BLA picture.
15. The device of claim 14, wherein the one or more processors is configured to determine that a current picture is a BLA picture if the current picture is a clean random access (CRA) picture and the current picture is a random access picture (RAP).

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16. The device of claim 14, wherein the one or more processors are configured to determine that the current picture is BLA picture based on a network abstraction layer (NAL) unit type of the current picture.

17. The device of claim 14, wherein the one or more processors are configured to mark the reference picture when a leading picture comprises a non-decodable leading picture.

18. The device of claim 14, further comprising the picture storage buffer, wherein the picture storage buffer includes a decoded picture buffer (DPB).

19. The device of claim 18, wherein the device comprises a decoder.

20. The device of claim 18, wherein the device comprises a network element.

21. The device of claim 20, wherein the network element comprises a Media Aware Network Element (MANE).

22. The device of claim 20, wherein the network element comprises a streaming server.

23. The device of claim 20, wherein the network element comprises a splicer.

24. The device of claim 14, wherein the processor is further configured to decode the BLA picture without using prior pictures marked as unused for reference.

25. The device of claim 14, wherein the processor is further configured to:
receive a slice of a current picture to be decoded for a sequence of video data;
receive, in a slice header of the slice, one or more entropy coded syntax elements
and at least one non-entropy coded syntax element, wherein the non-
entropy coded syntax element is before all of the entropy coded syntax
elements in the slice header and indicates whether pictures prior to the

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current picture in decoding order are to be emptied from a decoded picture buffer without being output; and
decode the slice based on the non-entropy coded syntax element.

26. The device of claim 25, wherein the non-entropy coded syntax element comprises a no_output_of_prior_pics_flag.

27. A device for decoding video data, the device comprising:

means for determining that a current picture is a broken-link access (BLA) picture; and

means for marking a reference picture in a picture storage buffer as unused for reference prior to decoding the BLA picture based on the determination that the current picture is a BLA picture.

28. The device of claim 27, wherein the means for determining that a current picture is a BLA picture further comprises means for determining that the current picture is a clean random access (CRA) picture and determining that the current picture is a random access picture (RAP).

29. The device of claim 27, wherein the means for determining that the current picture comprises a BLA picture includes means for determining that the current picture comprises a BLA picture based on a network abstraction layer (NAL) unit type.

30. The device of claim 27, wherein the means for marking the reference picture comprises means for marking the reference picture when a leading picture comprises a non-decodable leading picture.

31. The device of claim 27, further comprising the picture storage buffer, wherein the picture storage buffer comprises a decoded picture buffer (DPB).

32. A computer-readable storage medium having stored thereon instructions that, when executed, cause one or more processors of a device to:

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determine that a current picture is a broken-link access (BLA) picture; and
mark a reference picture as unused for reference prior to decoding the BLA
picture based on the determination that the current picture is BLA
picture.

33. The computer-readable storage medium of claim 32, wherein the instructions that
cause one or more processors to determine that a current picture is a BLA picture further
comprises instructions to cause the one or more processor to determine that a current
picture is a BLA picture based on determinations that the current picture is a clean
random access (CRA) picture and determining that the current picture is a random
access picture (RAP).

34. The computer-readable storage medium of claim 32, further comprising instructions
that cause the one or more processors to determine that the current picture is a BLA
picture based on a network abstraction layer (NAL) unit type.

35. The computer-readable storage medium of claim 32, further comprising instructions
that cause the one or more processors to mark the reference picture when a leading
picture comprises a non-decodable leading picture.

36. The computer-readable storage medium of claim 32, further comprising instructions
that cause the one or more processors to allocate a portion of a memory to a picture
storage buffer that forms part of a decoded picture buffer (DPB).

37. The computer-readable storage medium of claim 32, further comprising instructions
that cause the one or more processors to cause a decoder to decode the BLA picture.

38. The computer-readable storage medium of claim 32, further comprising instructions
that cause the one or more processors to cause a network element to decode the BLA
picture.

CLAIMS

1. An invention not claimed in any divisional application.