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WHAT IS CLAIMED IS:

1. A method for processing video data, the method comprising:
receiving a first network abstraction layer (NAL) unit comprising a portion of
the video data, wherein a NAL unit type of the first NAL unit indicates
the presence of a broken link picture; and
based on the NAL unit type of the first NAL unit, detecting the broken link
picture.
2. The method of claim 1, wherein the NAL unit type is a first NAL unit type, and
detecting the broken link picture comprises detecting a broken link picture with leading
pictures.
3. The method of claim 2, further comprising:
discarding the leading the pictures; and
transmitting the first NAL unit to a video processing device.
4. The method of claim 1, wherein the NAL unit type is a first NAL unit type, and
detecting the broken link picture comprises detecting a broken link picture without
leading pictures.
5. The method of claim 4, further comprising:
transmitting the first NAL unit to a video processing device.
6. The method of claim 4 further comprising:
receiving a second NAL unit;
determining a NAL unit type for the second NAL unit; and
based on the NAL unit type for the second NAL unit, detecting a broken link
picture with leading pictures, wherein the NAL unit type for the second
NAL unit is different than the first NAL unit type.
7. The method of claim 1, wherein the NAL unit type is a first NAL unit type, and
detecting the broken link picture comprises detecting a broken link picture with
decodable leading pictures.

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8. The method of claim 1, wherein the method is performed by a video processing entity, and wherein the video processing entity detects the broken link picture without performing entropy decoding of syntax elements of video bitstream data in the NAL unit.
9. The method of claim 1, further comprising:
in response to detecting a broken link picture, activating one or more new parameter sets for coding the video data.
10. The method of claim 9, wherein the one or more new parameter sets comprise one or more of an adaptation parameter set (APS), a sequence parameter set (SPS), and a picture parameter set (PPS).
11. The method of claim 9, wherein an identification (ID) for one of the one or more parameter sets is the same as an active parameter set for a previously decoded picture.
12. The method of claim 1, wherein the method is performed by a video decoder.
13. The method of claim 1, wherein the method is performed by a media aware network element (MANE).
14. A method for processing video data, the method comprising:
receiving a network abstraction layer (NAL) unit comprising a portion of the video data;
determining that the NAL unit comprises a broken link picture; and
setting a NAL unit type for the NAL unit to a NAL unit type that indicates that the NAL unit comprises the broken link picture.
15. The method of claim 14, wherein determining that the NAL unit comprises the broken link picture comprises determining that the NAL unit comprises a broken link picture with leading pictures and wherein the NAL unit type indicates that the NAL unit comprises the broken link picture with leading pictures.

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16. The method of claim 15, wherein determining that the NAL unit comprises the broken link picture with leading pictures comprises determining that the NAL unit comprises a broken link picture with decodable leading pictures and wherein the first NAL unit type indicates the NAL unit comprises the broken link picture with decodable leading pictures.

17. The method of claim 15, wherein determining the NAL unit comprises the broken link picture with leading pictures comprises determining the NAL unit comprises a broken link picture with non-decodable leading pictures and wherein the first NAL unit type indicates the NAL unit comprises the broken link picture with leading pictures that are decodable or non-decodable.

18. The method of claim 14, wherein determining that the NAL unit comprises the broken link picture comprises determining that the NAL unit comprises a broken link picture without leading pictures and wherein the first NAL unit type indicates the NAL unit comprises the broken link picture without leading pictures.

19. A device for processing video data, the device comprising one or more processors configured to:

receive a first network abstraction layer (NAL) unit comprising a portion of the video data, wherein a NAL unit type of the first NAL unit indicates the presence of a broken link picture; and
based on the NAL unit type of the first NAL unit, detect the broken link picture.

20. The device of claim 19, wherein the NAL unit type is a first NAL unit type, and detecting the broken link picture comprises detecting a broken link picture with leading pictures.

21. The device of claim 20, wherein the one or more processors are further configured to:

discard the leading the pictures; and
transmit the first NAL unit to a video processing device.

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22. The device of claim 19, wherein the NAL unit type is a first NAL unit type, and detecting the broken link picture comprises detecting a broken link picture without leading pictures.

23. The device of claim 22, wherein the one or more processors are further configured to:

transmit the first NAL unit to a video processing device.

24. The device of claim 22, wherein the one or more processors are further configured to:

receive a second NAL unit;

determine a NAL unit type for the second NAL unit; and

based on the NAL unit type for the second NAL unit, detect a broken link picture with leading pictures, wherein the NAL unit type for the second NAL unit is different than the first NAL unit type.

25. The device of claim 19, wherein the NAL unit type is a first NAL unit type, and detecting the broken link picture comprises detecting a broken link picture with decodable leading pictures.

26. The device of claim 19, wherein the device comprises a video processing entity, and wherein the video processing entity is configured to detect the broken link picture without performing entropy decoding of syntax elements of video bitstream data in the NAL unit.

27. The device of claim 19, wherein the one or more processors are further configured to:

in response to detecting a broken link picture, activate one or more new parameter sets for coding the video data.

28. The device of claim 27, wherein the one or more new parameter sets comprise one or more of an adaptation parameter set (APS), a sequence parameter set (SPS), and a picture parameter set (PPS).

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29. The device of claim 27, wherein an identification (ID) for one of the one or more parameter sets is the same as an active parameter set for a previously decoded picture.

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

31. The device of claim 19, wherein the device comprises a media aware network element (MANE).

32. The device of claim 19, wherein the device comprises at least one of:
an integrated circuit;
a microprocessor; or,
a wireless communication device that comprises a video decoder.

33. A device for processing video data, the device comprising one or more processors configured to:
receive a network abstraction layer (NAL) unit comprising a portion of the video data;
determine that the NAL unit comprises a broken link picture; and
set a NAL unit type for the NAL unit to a NAL unit type that indicates that the NAL unit comprises the broken link picture.

34. The device of claim 33, wherein the one or more processors are configured to determine that the NAL unit comprises the broken link picture by determining that the NAL unit comprises a broken link picture with leading pictures and wherein the NAL unit type indicates that the NAL unit comprises the broken link picture with leading pictures.

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35. The device of claim 34, wherein the one or more processors are configured to determine that the NAL unit comprises the broken link picture with leading pictures by determining that the NAL unit comprises a broken link picture with decodable leading pictures and wherein the first NAL unit type indicates the NAL unit comprises the broken link picture with decodable leading pictures.

36. The device of claim 34, wherein the one or more processors are configured to determine the NAL unit comprises the broken link picture with leading pictures by determining the NAL unit comprises a broken link picture with non-decodable leading pictures and wherein the first NAL unit type indicates the NAL unit comprises the broken link picture with leading pictures that are decodable or non-decodable.

37. The device of claim 33, wherein the one or more processors are configured to determine that the NAL unit comprises the broken link picture by determining that the NAL unit comprises a broken link picture without leading pictures and wherein the first NAL unit type indicates the NAL unit comprises the broken link picture without leading pictures.

38. A device for processing video data, the device comprising:
means for receiving a first network abstraction layer (NAL) unit comprising a portion of the video data, wherein a NAL unit type of the first NAL unit indicates the presence of a broken link picture; and
means for detecting the broken link picture based on the NAL unit type of the first NAL unit,

39. A device for processing video data, the device comprising:
means for receiving a network abstraction layer (NAL) unit comprising a portion of the video data;
means for determining that the NAL unit comprises a broken link picture; and
means for setting a NAL unit type for the NAL unit to a NAL unit type that indicates that the NAL unit comprises the broken link picture.

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40. A computer-readable storage medium storing instructions that when executed by one or more processors cause the one or more processors to:

receive a first network abstraction layer (NAL) unit comprising a portion of the video data, wherein a NAL unit type of the first NAL unit indicates the presence of a broken link picture; and

based on the NAL unit type of the first NAL unit, detect the broken link picture.

41. A computer-readable storage medium storing instructions that when executed by one or more processors cause the one or more processors to:

receive a network abstraction layer (NAL) unit comprising a portion of the video data;

determine that the NAL unit comprises a broken link picture; and

set a NAL unit type for the NAL unit to a NAL unit type that indicates that the NAL unit comprises the broken link picture.

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CLAIMS

1. An invention not claimed in any divisional application.