CLAIMS

1. A method for wireless communications of a user equipment (UE), comprising:

receiving, from a network device, a first message of a random access procedure;

identifying channel quality information for a communication link between the network device and the UE; and

transmitting, to the network device and in response to the first message, a second message of the random access procedure, the second message comprising an indication of the identified channel quality information in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support the second message comprising the indication of the identified channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

2. The method of claim 1, wherein the single protocol layer comprises one of a radio resource control (RRC) layer or a media access control (MAC) layer of the control plane protocol stack.

3. The method of claim 1, wherein:

the first message comprises a random access response message of the random access procedure; and

the second message comprises a radio resource control (RRC) connection request message of the random access procedure.

4. The method of claim 1, wherein transmitting the second message comprises:

transmitting the indication of the identified channel quality information in a header of a media access control (MAC) protocol data unit (PDU) carrying the second message.

5. The method of claim 4, wherein:

the header of the MAC PDU comprises a 2 bit channel quality field; and

the indication of the identified channel quality information is included in the 2 bit channel quality field.

6. The method of claim 4, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

7. The method of claim 1, further comprising:

receiving signaling that indicates that the network device supports a header of the second message carrying channel quality information.

8. The method of claim 1, further comprising:

identifying a communication parameter for the communication link based at least in part on the identified channel quality information, wherein the indication of the identified channel quality information comprises an indication of the identified communication parameter.

9. The method of claim 8, wherein the identified communication parameter comprises a transmission power, a modulation order, a coding rate, a modulation and coding scheme (MCS), a number of repetitions for a control channel or a shared channel, or a combination thereof.

10. The method of claim 1, further comprising:

determining the number of repetitions for downlink transmissions, the number of repetitions being different than a previous number of repetitions for the downlink transmissions; and

transmitting the second message including the identified channel quality information based at least in part on the number of repetitions being different than the previous number of repetitions.

11. A method for wireless communications of a network device, comprising:

transmitting a first message of a random access procedure; and

receiving in response to the first message, a second message of the random access procedure, the second message comprising an indication of channel quality information for a communication link between the network device and a user equipment (UE), the indication in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support

the second message comprising the indication of the channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

12. The method of claim 11, wherein the single protocol layer comprises one of a radio resource control (RRC) layer or a media access control (MAC) layer of the control plane protocol stack.

13. The method of claim 11, wherein:

the first message comprises a random access response message of the random access procedure; and

the second message comprises a radio resource control (RRC) connection request message of the random access procedure.

14. The method of claim 11, wherein receiving the second message comprises:

receiving the indication of the channel quality information in a header of a media access control (MAC) protocol data unit (PDU) carrying the second message.

15. The method of claim 14, wherein:

the header of the MAC PDU comprises a 2 bit channel quality field; and

the indication of the channel quality information is included in the 2 bit channel quality field.

16. The method of claim 14, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

17. The method of claim 14, further comprising:

transmitting signaling that indicates that the network device supports a header of the second message carrying channel quality information.

18. The method of claim 11, further comprising:

identifying a communication parameter for the communication link based at least in part on the channel quality information, wherein the indication of the channel quality information comprises an indication of the identified communication parameter.

19. The method of claim 18, wherein the identified communication parameter comprises a transmission power, a modulation order, a coding rate, a modulation and coding scheme (MCS), a number of repetitions for a control channel or a shared channel, or a combination thereof.

20. The method of claim 11, further comprising:

determining the number of repetitions for downlink transmissions, the number of repetitions being different than a previous number of repetitions for the downlink transmissions; and

receiving the second message including the channel quality information based at least in part on the number of repetitions being different than the previous number of repetitions.

21. An apparatus for wireless communications of a user equipment (UE), comprising:

a processor,

memory coupled with the processor; and

instructions stored in the memory and executable by the processor to cause the UE to:

receive, from a network device, a first message of a random access procedure;

identify channel quality information for a communication link between the network device and the UE; and

transmit, to the network device and in response to the first message, a second message of the random access procedure, the second message comprising an indication of the identified channel quality information in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support the second

message comprising the indication of the identified channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

22. The apparatus of claim 21, wherein the single protocol layer comprises one of a radio resource control (RRC) layer or a media access control (MAC) layer of the control plane protocol stack.

23. The apparatus of claim 21, wherein:

the first message comprises a random access response message of the random access procedure; and

the second message comprises a radio resource control (RRC) connection request message of the random access procedure.

24. The apparatus of claim 21, wherein the instructions to transmit the second message are executable by the processor to cause the UE to:

transmit the indication of the identified channel quality information in a header of a media access control (MAC) protocol data unit (PDU) carrying the second message.

25. The apparatus of claim 24, wherein:

the header of the MAC PDU comprises a 2 bit channel quality field; and

the indication of the identified channel quality information is included in the 2 bit channel quality field.

26. The apparatus of claim 24, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

27. The apparatus of claim 24, wherein the instructions are further executable by the processor to cause the UE to:

receive signaling that indicates that the network device supports a header of the second message carrying channel quality information.

28. The apparatus of claim 21, wherein the instructions are further executable by the processor to cause the UE to:

identify a communication parameter for the communication link based at least in part on the identified channel quality information, wherein the indication of the identified channel quality information comprises an indication of the identified communication parameter.

29. The apparatus of claim 28, wherein the identified communication parameter comprises a transmission power, a modulation order, a coding rate, a modulation and coding scheme (MCS), a number of repetitions for a control channel or a shared channel, or a combination thereof.

30. The apparatus of claim 21, wherein the instructions are further executable by the processor to cause the UE to:

determine the number of repetitions for downlink transmissions, the number of repetitions being different than a previous number of repetitions for the downlink transmissions; and

transmit the second message including the identified channel quality information based at least in part on the number of repetitions being different than the previous number of repetitions.

31. An apparatus for wireless communications of a network device, comprising:

a processor,

memory coupled with the processor; and

instructions stored in the memory and executable by the processor to cause the network device to:

transmit a first message of a random access procedure; and

receive, in response to the first message, a second message of the random access procedure, the second message comprising an indication of channel quality information for a communication link between the network device and a user equipment (UE), the indication in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a

capability of the network device to support the second message comprising the indication of the channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

32. The apparatus of claim 31, wherein the single protocol layer comprises one of a radio resource control (RRC) layer or a media access control (MAC) layer of the control plane protocol stack.

33. The apparatus of claim 31, wherein:

the first message comprises a random access response message of the random access procedure; and

the second message comprises a radio resource control (RRC) connection request message of the random access procedure.

34. The apparatus of claim 31, wherein the instructions to receive the second message are executable by the processor to cause the network device to:

receive the indication of the channel quality information in a header of a media access control (MAC) protocol data unit (PDU) carrying the second message.

35. The apparatus of claim 34, wherein:

the header of the MAC PDU comprises a 2 bit channel quality field; and

the indication of the channel quality information is included in the 2 bit channel quality field.

36. The apparatus of claim 34, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

37. The apparatus of claim 34, wherein the instructions are further executable by the processor to cause the network device to:

transmit signaling that indicates that the network device supports a header of the second message carrying channel quality information.

38. The apparatus of claim 31, wherein the instructions are further executable by the processor to cause the network device to:

identify a communication parameter for the communication link based at least in part on the channel quality information, wherein the indication of the channel quality information comprises an indication of the identified communication parameter.

39. The apparatus of claim 38, wherein the identified communication parameter comprises a transmission power, a modulation order, a coding rate, a modulation and coding scheme (MCS), a number of repetitions for a control channel or a shared channel, or a combination thereof.

40. The apparatus of claim 31, wherein the instructions are further executable by the processor to cause the network device to:

determine the number of repetitions for downlink transmissions, the number of repetitions being different than a previous number of repetitions for the downlink transmissions; and

receive the second message including the channel quality information based at least in part on the number of repetitions being different than the previous number of repetitions.

41. An apparatus for wireless communications of a user equipment (UE), comprising:

means for receiving, from a network device, a first message of a random access procedure;

means for identifying channel quality information for a communication link between the network device and the UE; and

means for transmitting, to the network device and in response to the first message, a second message of the random access procedure, the second message comprising an indication of the identified channel quality information in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support the second message comprising the indication of the identified channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

42. An apparatus for wireless communications of a network device, comprising:

means for transmitting a first message of a random access procedure; and

means for receiving, in response to the first message, a second message of the random access procedure, the second message comprising an indication of channel quality information for a communication link between the network device and a user equipment (UE), the indication in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support the second message comprising the indication of the channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

43. A non-transitory computer-readable medium storing code for wireless communications of a user equipment (UE), the code comprising instructions executable by a processor to:

receive, from a network device, a first message of a random access procedure;

identify channel quality information for a communication link between the network device and the UE; and

transmit, to the base network device and in response to the first message, a second message of the random access procedure, the second message comprising an indication of the identified channel quality information in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support the second message comprising the indication of the identified channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.

44. A non-transitory computer-readable medium storing code for wireless communications of a network device, the code comprising instructions executable by a processor to:

transmit a first message of a random access procedure; and

receive, in response to the first message, a second message of the random access procedure, the second message comprising an indication of channel quality information for a

communication link between the network device and a user equipment (UE), the indication in a multi-bit channel quality field of the second message associated with a single protocol layer of a control plane protocol stack based at least in part on a capability of the network device to support the second message comprising the indication of the channel quality information and based at least in part on a determination to change a number of repetitions for downlink transmissions.