~~CLAIMS~~

~~**What is claimed is:**~~

CLAIMS

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

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

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

transmitting, to the ~~base station~~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 ~~portion~~multi-bit channel quality field of the second message ~~generated by~~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 1-bit channel quality field; and~~

~~the indication of the identified channel quality information is included in the 1-bit channel quality field.~~

~~7~~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.

~~8~~7. The method of claim ~~4~~1, further comprising:

receiving signaling that indicates ~~support, by~~that the ~~base station,~~ network device supports a header of the ~~header~~ second message carrying channel quality information.

~~9~~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.

~~10~~9. The method of claim ~~9~~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.

~~11~~10. The method of claim 1, further comprising:

determining ~~a~~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.

~~12~~11. A method for wireless communications ~~at~~of a ~~base station~~network device, comprising:

transmitting~~, to a user equipment (UE),~~ a first message of a random access procedure; and

receiving~~, from the UE and~~ 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 ~~base station~~network device and ~~the~~ a user equipment (UE~~,~~), the indication in a ~~portion~~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.

~~13~~12. The method of claim ~~12~~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.

~~14~~13. The method of claim ~~12~~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.

~~15~~14. The method of claim ~~12~~11, wherein receiving the second message comprises:

receiving 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.

~~16~~15. The method of claim ~~15~~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.

~~17~~16. The method of claim ~~15, wherein:~~

~~the header of the MAC PDU comprises a 1-bit channel quality field; and~~

~~the indication of the channel quality information is included in the 1-bit channel quality field.~~

~~18. The method of claim 15~~14, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

~~19~~17. The method of claim ~~15~~14, further comprising:

transmitting signaling that indicates ~~support, by~~that the ~~base station,~~ network device supports a header of the ~~header~~ second message carrying channel quality information.

~~20~~18. The method of claim ~~12~~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.

~~21~~19. The method of claim ~~20~~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.

~~22~~20. The method of claim ~~12~~11, further comprising:

determining ~~a~~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.

~~23~~21. An apparatus for wireless communications ~~at~~of a user equipment (UE), comprising:

~~means for receiving~~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 ~~base station~~network device, a first message of a random access procedure;

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

~~means for transmitting~~transmit, to the ~~base station~~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 ~~portion~~multi-bit channel quality field of the second message ~~generated by~~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.

~~24~~22. The apparatus of claim ~~23~~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.

~~25~~23. The apparatus of claim ~~23~~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.

~~26~~24. The apparatus of claim ~~23~~21, wherein the ~~means for transmitting~~instructions to transmit the second message ~~comprise~~are executable by the processor to cause the UE to:

~~means for transmitting~~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.

~~27~~25. The apparatus of claim ~~26~~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.

~~28~~26. The apparatus of claim ~~26, wherein:~~

~~the header of the MAC PDU comprises a 1-bit channel quality field; and~~

~~the indication of the identified channel quality information is included in the 1-bit channel quality field.~~

~~29. The apparatus of claim 26~~24, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

~~30~~27. The apparatus of claim ~~26,~~24, wherein the instructions are further ~~comprising~~executable by the processor to cause the UE to:

~~means for receiving~~receive signaling that indicates ~~support, by~~that the ~~base station,~~network device supports a header of the ~~header~~ second message carrying channel quality information.

~~31~~28. The apparatus of claim ~~23,~~21, wherein the instructions are further ~~comprising~~executable by the processor to cause the UE to:

~~means for identifying~~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.

~~32~~29. The apparatus of claim ~~31~~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.

~~33~~30. The apparatus of claim ~~23,~~21, wherein the instructions are further ~~comprising~~executable by the processor to cause the UE to:

~~means for determining a~~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

~~means for transmitting~~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.

~~34~~31. An apparatus for wireless communications ~~at~~of a ~~base station~~network device, comprising:

~~means for transmitting,~~a processor,

memory coupled with the processor; and

instructions stored in the memory and executable by the processor to ~~a user equipment (UE),~~cause the network device to:

transmit a first message of a random access procedure; and

~~means for receiving, from the UE 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 ~~base station~~network device and ~~the~~ a user equipment (UE~~,~~), the indication in a ~~portion~~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.

~~35~~32. The apparatus of claim ~~34~~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.

~~36~~33. The apparatus of claim ~~34~~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.

~~37~~34. The apparatus of claim ~~34~~31, wherein the ~~means for receiving~~instructions to receive the second message ~~comprise~~are executable by the processor to cause the network device to:

~~means for receiving~~receive 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.

~~38~~35. The apparatus of claim ~~37~~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.

~~39~~36. The apparatus of claim ~~37, wherein:~~

~~the header of the MAC PDU comprises a 1-bit channel quality field; and~~

~~the indication of the channel quality information is included in the 1-bit channel quality field.~~

~~40. The apparatus of claim 37~~34, wherein the header of the MAC PDU comprises a logical channel identifier (LCID) that indicates that the header carries channel quality information.

~~41~~37. The apparatus of claim ~~37,~~34, wherein the instructions are further ~~comprising~~executable by the processor to cause the network device to:

~~means for transmitting~~transmit signaling that indicates ~~support, by~~that the ~~base station,~~network device supports a header of the ~~header~~ second message carrying channel quality information.

~~42~~38. The apparatus of claim ~~34, 31~~, wherein the instructions are further ~~comprising~~executable by the processor to cause the network device to:

~~means for identifying~~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.

~~43~~39. The apparatus of claim ~~42~~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.

~~44~~40. The apparatus of claim ~~34,~~31, wherein the instructions are further ~~comprise~~executable by the processor to cause the network device to:

~~means for determining a~~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

~~means for receiving~~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.

~~45~~41. An apparatus for wireless communications ~~at~~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 apparatus to:~~

~~receive~~means for receiving, from a ~~base station~~network device, a first message of a random access procedure;

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

~~transmit~~means for transmitting, to the ~~base station~~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 ~~portion~~multi-bit channel quality field of the second message ~~generated by~~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.

~~46~~42. An apparatus for wireless communications ~~at~~of a ~~base station~~network device, comprising:

~~a processor,~~

~~memory coupled with the processor; and~~

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

~~transmit, to a user equipment (UE),~~means for transmitting a first message of a random access procedure; and

~~receive, from the UE 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 ~~base station~~network device and ~~the~~ a user equipment (UE~~,~~), the indication in a ~~portion~~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.

~~47~~43. A non-transitory computer-readable medium storing code for wireless communications ~~at~~of a user equipment (UE), the code comprising instructions executable by a processor to:

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

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

transmit, to the base ~~station~~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 ~~portion~~multi-bit channel quality field of the second message ~~generated by~~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.

~~48~~44. A non-transitory computer-readable medium storing code for wireless communications ~~at~~of a ~~base station~~network device, the code comprising instructions executable by a processor to:

transmit~~, to a user equipment (UE),~~ a first message of a random access procedure; and

receive~~, from the UE and~~ 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 ~~base station~~network device and ~~the~~ a user equipment (UE~~,~~), the indication in a ~~portion~~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.