CLAIMS

1. A method performed by a user equipment (UE), the method comprising: identifying, from a plurality of resource sets, a resource set from which a resource for transmitting an acknowledgment of a message associated with a random access procedure is identified; determining information that identifies the resource from the resource set, wherein the information that identifies the resource is determined based at least in part on three bits of downlink control information (DCI) associated with the message and one bit derived from a control channel index of a physical downlink channel (PDCCH): and transmitting, by the UE, the acknowledgment based at least in part on the information that identifies the resource.

2. The method of claim 1, wherein the information that identifies the resource is determined further based at least in part on a parameter received by the UE in a physical broadcast channel (PBCH).

3. The method of claim 1, wherein the resource set is identified based at least in part on a parameter included in remaining minimum system information (RMSI) received by the UE.

4. The method of claim 3, wherein the plurality of resource sets comprises 16 possible resource sets that are available for transmission of the acknowledgement.

5. The method of claim 1, wherein the information that identifies the resource is determined further based at least in part on a grant associated with the message.

6. The method of claim 1, wherein the acknowledgment is associated with a 1-bit on-off keying technique associated with the random access procedure.

7. The method of claim 1, wherein the information that identifies the resource includes information that identifies a duration of the resource.

8. The method of claim 7, wherein the information that identifies the duration of the resource is determined based at least in part on a duration of another message in a

sequence of messages associated with the random access procedure, wherein the duration of the other message is identified based at least in part on a resource associated with the other message.

9. The method of claim 7, wherein the information that identifies the duration of the resource is determined based at least in part on a duration or a class of a preamble associated with another message in a sequence of messages associated with the random access procedure, wherein the duration or the class of the preamble is determined based at least in part on a resource, associated with the other message, or a payload of the other message.

10. The method of claim 7, wherein the information that identifies the duration of the resource is determined based at least in part on a start location of the acknowledgment.

11. The method of claim 7, wherein the information that identifies the duration of the resource is determined based at least in part on a request included in another message in a sequence of messages associated with the random access procedure, wherein the request is determined based at least in part on a payload of the other message.

12. The method of claim 1, wherein the information that identifies the resource includes information that identifies a start location of the resource.

13. The method of claim 12, wherein the information that identifies the start location is determined based at least in part on at least one of: the DCI associated with the message, or information included in a payload of the message.

14. The method of claim 12, wherein the information that identifies the start location is determined based at least in part on a physical downlink shared channel (PDSCH).

15. The method of claim 1, wherein the information that identifies the resource includes information that identifies a resource block index associated with the resource.

16. The method of claim 1, wherein the information that identifies the resource includes information that identifies a number of resource blocks included in the resource.

17. The method of claim 1, wherein the information that identifies the resource includes information that identifies a sequence index associated with the resource.

18. The method of claim 1, wherein the information that identifies the resource includes information that identifies a cyclic shift index associated with the resource.

19. The method of claim 1, wherein the information that identifies the resource identifies the resource from the resource set of 16 available PUCCH resources.

20. A user equipment (UE) for wireless communication, comprising: memory; and one or more processors coupled to the memory, and instructions stored in the memory and operable, when executed by the one or more processors to cause the UE to: identify, from a plurality of resource sets, a resource set from which a resource for transmitting an acknowledgment of a message associated with a random access procedure is identified; determine information that identifies the resource from the resource set, wherein the information that identifies the resource is determined based at least in part on three bits of downlink control information (DCI) associated with the message and one bit derived from a control channel index of a physical downlink channel (PDCCH): and transmit the acknowledgment based at least in part on the information that identifies the resource.

21. The UE of claim 20, wherein the resource set is identified based at least in part on a parameter included in remaining minimum system information (RMSI) received by the UE.

22. The UE of claim 21, wherein the plurality of resource sets comprises 16 possible resource sets that are available for transmission of the acknowledgement.

23. The UE of claim 20, wherein the information that identifies the resource is determined further based at least in part on a grant associated with the message.

24. The UE of claim 20, the information that identifies the resource identifies the resource from the resource set of 16 available PUCCH resources.

25. An apparatus for wireless communication, comprising: means for identifying, from

a plurality of resource sets, a resource set from which a resource for transmitting an acknowledgment of a message associated with a random access procedure is identified; means for determining information that identifies the resource from the resource set, wherein the information that identifies the resource is determined based at least in part on three bits of downlink control information (DCI) associated with the message and one bit derived from a control channel index of a physical downlink channel (PDCCH); and means for transmitting the acknowledgment based at least in part on the information that identifies the resource.

26. The apparatus of claim 25, wherein the resource set is identified based at least in part on a parameter included in remaining minimum system information (RMSI) received by the apparatus.

27. The apparatus of claim 26, wherein the plurality of resource sets comprises 16 possible resource sets that are available for transmission of the acknowledgement.

28. The apparatus of claim 25, wherein the information that identifies the resource is determined further based at least in part on a grant associated with the message.

29. The apparatus of claim 25, wherein the information that identifies the resource identifies the resource from the resource set of 16 available PUCCH resources.

30. A non-transitory computer-readable medium storing one or more instructions for wireless communication that, when executed by one or more processors of a user equipment (UE), cause the UE to: identify, from a plurality of resource sets, a resource set from which a resource for transmitting an acknowledgment of a message associated with a random access procedure is identified: determine information that identifies the resource from the resource set, wherein the information that identifies the resource is determined based at least in part on three bits of downlink control information (DCI) associated with the message and one bit derived from a control channel index of a physical downlink channel (PDCCH): and transmit the acknowledgment based at least in part on the information that identifies the resource.

31. The non-transitory computer-readable medium of claim 30, wherein the resource set is identified based at least in part on a parameter included in remaining minimum

system information (RMSI) received by the UE.

32. The non-transitory computer-readable medium of claim 31, wherein the plurality of resource sets comprises 16 possible resource sets that are available for transmission of the acknowledgement.

33. The non-transitory computer-readable medium of claim 30, wherein the information that identifies the resource is determined further based at least in part on a grant associated with the message.

34. The non-transitory computer-readable medium of claim 30, wherein the information that identifies the resource identifies the resource from the resource set of 16 available PUCCH resources.