CLAIMS

1. A method for wireless communication by a user-equipment (UE), comprising: receiving signaling indicating a plurality of signaling entities comprising at least a first signaling entity and a second signaling entity for cross-carrier scheduling and for reception of a plurality of control messages, wherein: the first signaling entity is used to cross-carrier schedule first resources on other signaling entities of the plurality of signaling entities and the second signaling entity is used to cross-carrier schedule the first resources on the other signaling entities of the plurality of signaling entities, and each of the plurality of control messages schedules the first resources on a different signaling entity than one of the plurality of signaling entities on which one of the plurality of control messages is to be received; and monitoring second resources on the plurality of signaling entities for the plurality of control messages.

2. The method of claim 1, wherein each signaling entity comprises a frequency resource.

3. The method of claim 1, wherein each signaling entity comprises a component carrier (CC) or a cell.

4. The method of claim 1, wherein a control message on the first signaling entity schedules third resources on the second signaling entity.

5. The method of claim 1, wherein the signaling is received via a downlink control information (DCI), a medium access control-control element (MAC-CE), or a radio resource control (RRC) message, or any combination thereof.

6. The method of claim 1, wherein: a first control message of the plurality of control messages is to be received from a first transmission point; and a second control message of the plurality of control message is to be received from a second transmission point.

7. The method of claim 1, wherein the plurality of control messages comprises a first control message and a second control message, and wherein the first control message, received via one of the plurality of signaling entities, indicates fourth resources on another one of the plurality of signaling entities for reception of the second control message.

8. The method of claim 7, wherein the first control message designates a switch of control for resource scheduling from the one of the plurality of signaling entities to the other one of the plurality of signaling entities.

9. A method for wireless communication, comprising: determining a plurality of signaling entities comprising at least a first signaling entity and a second signaling entity for cross-carrier scheduling and for reception of a plurality of control messages, wherein: the first signaling entity is used to cross-carrier schedule first resources on other signaling entities of the plurality of signaling entities and the second signaling entity is used to cross-carrier schedule the first resources on the other signaling entities of the plurality of signaling entities, and each of the plurality of control messages scheduling the first resources on a different signaling entity than one of the plurality of signaling entities on which one of the plurality of control messages is to be received; and transmitting signaling indicating the plurality of signaling entities to a user-equipment (UE).

10. The method of claim 9, wherein each signaling entity comprises a frequency resource.

11. The method of claim 9, wherein each signaling entity comprises a component carrier (CC) or a cell.

12. The method of claim 9, wherein a control message on the first signaling entity schedules third resources on the second signaling entity.

13. The method of claim 9, wherein the signaling is transmitted via a downlink control information (DCI), a medium access control-control element (MAC-CE), or a radio resource control (RRC) message, or any combination thereof.

14. The method of claim 9, wherein: the method is performed by a first transmission point; the method further comprises transmitting, to the UE, a first control message of the plurality of control messages; and a second control message of the plurality of control message is to be received by the UE via one of the plurality of signaling entities associated with a second transmission point.

15. The method of claim 14, further comprising: sending, to the second transmission point, channel measurement information to be used for the scheduling of fifth resources via the second control message.

16. The method of claim 9, wherein: the plurality of control messages comprise a first control message and a second control message, and the method further comprises transmitting the first control message, via one of the plurality of signaling entities, indicating fourth resources on another one of the plurality of signaling entities for reception of the second control message.

17. The method of claim 16, wherein the first control message designates a switch of control for resource scheduling from the one of the plurality of signaling entities to the other one of the plurality of signaling entities.

18. An apparatus for wireless communication, comprising: a memory; and one or more processors coupled to the memory, the memory comprising instructions executable by the one or more processors to cause the apparatus to: receive signaling indicating a plurality of signaling entities comprising at least a first signaling entity and a second signaling entity for cross-carrier scheduling and for reception of a plurality of control messages, wherein: the first signaling entity is used to cross-carrier schedule first resources on other signaling entities of the plurality of signaling entities and the second signaling entity is used to cross-carrier schedule the first resources on the other signaling entities of the plurality of signaling entities, and each of the plurality of control messages schedules the first resources on a different signaling entity than one of the plurality of signaling entities on which one of the plurality of control messages is to be received; and monitor second resources on the plurality of signaling entities for the plurality of control messages.

19. The apparatus of claim 18, wherein each signaling entity comprises a frequency resource.

20. The apparatus of claim 18, wherein each signaling entity comprises a component carrier (CC) or a cell.

21. The apparatus of claim 18, wherein a control message on the first signaling entity schedules third resources on the second signaling entity.

22. The apparatus of claim 18, wherein the signaling is received via a downlink control information (DCI), a medium access control-control element (MAC-CE), or a radio resource control (RRC) message.

23. The apparatus of claim 18, wherein: a first control message of the plurality of control messages is to be received from a first transmission point; and a second control message of the plurality of control message is to be received from a second transmission point.

24. The apparatus of claim 18, wherein the plurality of control messages comprises a first control message and a second control message, and wherein the first control message, received via one of the plurality of signaling entities, indicates fourth resources on another one of the plurality of signaling entities for reception of the second control message.

25. The apparatus of claim 24, wherein the first control message designates a switch of control for resource scheduling from the one of the plurality of signaling entities to the other one of the plurality of signaling entities.

26. An apparatus for wireless communication, comprising: a memory; and one or more processors coupled to the memory, the memory comprising instructions executable by the one or more processors to cause the apparatus to: determine a plurality of signaling entities comprising at least a first signaling entity and a second signaling entity for cross-carrier scheduling and for reception of a plurality of control messages, wherein: the first signaling entity is used to cross-carrier schedule first resources on other signaling entities of the plurality of signaling entities and the second signaling entity is used to cross-carrier schedule the first resources on the other signaling entities of the plurality of signaling entities, and each of the plurality of control messages scheduling the first resources on a different signaling entity than one of the plurality of signaling entities on which one of the plurality of control messages is to be received; and transmit signaling indicating the plurality of signaling entities to a user-equipment (UE).

27. The apparatus of claim 26, wherein each signaling entity comprises a frequency resource.

28. The apparatus of claim 26, wherein each signaling entity comprises a component carrier (CC) or a cell.

29. The apparatus of claim 26, wherein a control message on the first signaling entity schedules third resources on the second signaling entity.

30. The apparatus of claim 26, wherein the signaling is transmitted via a downlink control information (DCI), a medium access control-control element (MAC-CE), or a radio resource control (RRC) message, or any combination thereof.