

CLAIMS

1. A method for wireless communication, comprising:

identifying a frame in a shared radio frequency spectrum band shared by a plurality of network operating entities;

identifying a first plurality of sub-intervals in the frame for exclusive use by a network operating entity;

identifying a second plurality of sub-intervals in the frame for prioritized use by the network operating entity, wherein the prioritized use is associated with a medium-sensing procedure used by at least one other network operating entity other than the network operating entity;

identifying a third plurality of sub-intervals in the frame for opportunistic use by the network operating entity, wherein the opportunistic use is associated with a medium-sensing procedure used by any of the plurality of network operating entities and with priority signaling from any of the plurality of network operating entities;

identifying, during at least one of the third plurality of sub-intervals, priority signaling from a second network operating entity having a communication priority different from a communication priority of the network operating entity, the priority signaling indicating whether the second network operating entity intends to communicate during the at least one of the third plurality of sub-intervals; and

communicating, using one of the identified sub-intervals, with a wireless node associated with the network operating entity.

2. The method of claim 1, further comprising:

communicating control information with the wireless node during at least one of the first plurality of sub-intervals.

3. The method of claim 2, wherein the control information comprises synchronization information, system information, paging information, random access information, or a combination thereof.

4. The method of claim 1, further comprising:

communicating data with the wireless node during at least one of the second plurality of sub-intervals.

5. The method of claim 1, further comprising:

communicating control information, paging information, or both with the wireless node during the at least one of the second plurality of sub-intervals.

6. The method of claim 1, wherein a location of at least the first plurality of

sub-intervals, the second plurality of sub-intervals, or the third plurality of sub-intervals within the frame is determined by a network operating entity coordinator.

7. The method of claim 6, wherein the network operating entity coordinator

comprises a spectrum access system (SAS).

8. The method of claim 1, wherein a location of at least the first plurality of

sub-intervals, the second plurality of sub-intervals, or the third plurality of sub-intervals within the frame is autonomously determined based at least in part on a number of the plurality of network operating entities.

9. The method of claim 1, further comprising:

measuring for communications from other network operating entities during at least one of the third plurality of sub-intervals.

10. The method of claim 9, further comprising:

determining, based at least in part on the measuring, an absence of communications from the other network operating entities during the at least one of the third plurality of sub-intervals; and

communicating data during the at least one of the third plurality of sub-intervals based at least in part on the determining.

11. The method of claim 9, further comprising:

determining, based at least in part on the measuring, a presence of communications from the other network operating entities during the at least one of the third plurality of sub-intervals; and

refraining from communicating data during the at least one of the third plurality of sub-intervals based at least in part on the determining.

12. The method of claim 9, wherein the measuring for communications comprises a listen-before-talk (LBT) procedure.

13. The method of claim 1, wherein identifying, during at least one of the third plurality of sub-intervals comprises:

identifying, during the at least one of the third plurality of sub-intervals, the priority signaling from the second priority network operating entity, the priority signaling indicating that the second network operating entity will not communicate during the at least one of the third plurality of sub-intervals, the second network operating entity having a higher communication priority during the at least one of the third plurality of sub-intervals than the network operating entity; and

communicating data during the at least one of the third plurality of sub-intervals based at least in part on the priority signaling.

14. The method of claim 1, wherein identifying, during at least one of the third plurality of sub-intervals comprises:

identifying, during the at least one of the third plurality of sub-intervals, the priority signaling from the second network operating entity, the priority signaling indicating that the second network operating entity will communicate during the at least one of the third plurality of sub-intervals, the second network operating entity having a higher communication priority during the at least one of the third plurality of sub-intervals than the network operating entity; and

refraining from communicating data during the at least one of the third plurality of sub-intervals based at least in part on the priority signaling.

15. The method of claim 1, further comprising:

transmitting, by the network operating entity, an indication to a lower priority network operating entity that communication with the wireless node will occur during the at least one of the second plurality of sub-intervals, the lower priority network operating entity having a lower communication priority than the network operating entity during the at least one of the

second plurality of sub-intervals.

16. The method of claim 1, further comprising:

indicating to a lower priority network operating entity that communication with the wireless node will not occur during at least one of the second plurality of sub-intervals, the lower priority network operating entity having a lower communication priority during the at least one of the second plurality of sub-intervals than the network operating entity.

17. The method of claim 1, further comprising:

receiving synchronization information from an additional wireless node associated with another network operating entity; and

communicating with the wireless node based at least in part on the synchronization information.

18. The method of claim 1, further comprising:

communicating with the wireless node using coordinated multi-point communication.

19. An apparatus for wireless communication, in a system comprising:

a processor;

memory in electronic communication with the processor; and

instructions stored in the memory and operable, when executed by the processor, to cause the apparatus to:

identify a frame in a shared radio frequency spectrum band shared by a plurality of network operating entities;

identify a first plurality of sub-intervals in the frame for exclusive use by a network operating entity;

identify a second plurality of sub-intervals in the frame for prioritized use by the network operating entity, wherein the prioritized use is associated with a medium-sensing procedure used by at least one other network operating entity other than the network operating entity;

identify a third plurality of sub-intervals in the frame for opportunistic use by the network operating entity, wherein the opportunistic use is associated with a

medium-sensing procedure used by any of the plurality of network operating entities and with priority signaling from any of the plurality of network operating entities;

identify, during at least one of the third plurality of sub-intervals, priority signaling from a second network operating entity having a communication priority different from a communication priority of the network operating entity, the priority signaling indicating whether the second network operating entity intends to communicate during the at least one of the third plurality of sub-intervals; and

communicate, using one of the identified sub-intervals, with a wireless node associated with the network operating entity.

20. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

communicate control information with the wireless node during at least one of the first plurality of sub-intervals.

21. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

communicate data with the wireless node during at least one of the second plurality of sub-intervals.

22. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

measure for communications from other network operating entities during at least one of the third plurality of sub-intervals.

23. The apparatus of claim 22, wherein the instructions are further executable by the processor to cause the apparatus to:

determine, based at least in part on the measuring, an absence of communications from the other network operating entities during the at least one of the third plurality of sub-intervals; and

communicate data during the at least one of the third plurality of sub-intervals based at least in part on the determining.

24. The apparatus of claim 22, wherein the instructions are further executable by the processor to cause the apparatus to:

determine, based at least in part on the measuring, a presence of communications from the other network operating entities during the at least one of the third plurality of sub-intervals; and

refrain from communicating data during the at least one of the third plurality of sub-intervals based at least in part on the determining.

25. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

identify, during the at least one of the third plurality of sub-intervals, the priority signaling from the second priority network operating entity, the priority signaling indicating that the second network operating entity will not communicate during the at least one of the third plurality of sub-intervals, the second network operating entity having a higher communication priority during the at least one of the third plurality of sub-intervals than the network operating entity; and

communicate data during the at least one of the third plurality of sub-intervals based at least in part on the priority signaling.

26. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

identify, during the at least one of the third plurality of sub-intervals, the priority signaling from the second priority network operating entity, the priority signaling indicating that the second network operating entity will communicate during the at least one of the third plurality of sub-intervals, the second network operating entity having a higher communication priority during the at least one of the third plurality of sub-intervals than the network operating entity; and

refrain from communicating data during the at least one of the third plurality of sub-intervals based at least in part on the priority signaling.

27. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

transmit, by the network operating entity, an indication to a lower priority network operating entity that communication with the wireless node will occur during the at least one of the second plurality of sub-intervals, the lower priority network operating entity having a lower communication priority than the network operating entity during the at least one of the second plurality of sub-intervals.

28. The apparatus of claim 19, wherein the instructions are further executable by the processor to cause the apparatus to:

indicate to a lower priority network operating entity that communication with the wireless node will not occur during at least one of the second plurality of sub-intervals, the lower priority network operating entity having a lower communication priority during the at least one of the second plurality of sub-intervals than the network operating entity.

29. An apparatus for wireless communication, comprising:

means for identifying a frame in a shared radio frequency spectrum band shared by a plurality of network operating entities;

means for identifying a first plurality of sub-intervals in the frame for exclusive use by a network operating entity;

means for identifying a second plurality of sub-intervals in the frame for prioritized use by the network operating entity, wherein the prioritized use is associated with a medium-sensing procedure used by at least one other network operating entity other than the network operating entity;

means for identifying a third plurality of sub-intervals in the frame for opportunistic use by the network operating entity, wherein the opportunistic use is associated with a medium-sensing procedure used by any of the plurality of network operating entities and with priority signaling from any of the plurality of network operating entities;

means for identifying, during at least one of the third plurality of sub-intervals, priority signaling from a second network operating entity having a communication priority different from a communication priority of the network operating entity, the priority signaling indicating whether the second network operating entity intends to communicate during the at least one of the third plurality of sub-intervals; and

means for communicating, using one of the identified sub-intervals, with a

wireless node associated with the network operating entity.

30. A non-transitory computer readable medium storing code for wireless communication, the code comprising instructions executable by a processor to:

- identify a frame in a shared radio frequency spectrum band shared by a plurality of network operating entities;

- identify a first plurality of sub-intervals in the frame for exclusive use by a network operating entity;

- identify a second plurality of sub-intervals in the frame for prioritized use by the network operating entity, wherein the prioritized use is associated with a medium-sensing procedure used by at least one other network operating entity other than the network operating entity;

- identify a third plurality of sub-intervals in the frame for opportunistic use by the network operating entity, wherein the opportunistic use is associated with a medium-sensing procedure used by any of the plurality of network operating entities and with priority signaling from any of the plurality of network operating entities;

- identify, during at least one of the third plurality of sub-intervals, priority signaling from a second network operating entity having a communication priority different from a communication priority of the network operating entity, the priority signaling indicating whether the second network operating entity intends to communicate during the at least one of the third plurality of sub-intervals; and

- communicate, using one of the identified sub-intervals, with a wireless node associated with the network operating entity.