WHAT IS CLAIMED IS:

1. A method of wireless communication, comprising:

determining, by a first wireless communication device, one or more transmission frame configurations for communicating with a plurality of wireless communication devices of a multi-hop wireless network, wherein each of the one or more transmission frame configurations includes at least a first transmission gap period or a first cyclic prefix (CP) type; and

communicating, by the first wireless communication device with the plurality of wireless communication devices, communication signals based on the one or more transmission frame configurations, wherein at least a first communication signal of the communication signals includes backhaul data.

2. The method of claim 1, wherein the communicating includes:

communicating, by the first wireless communication device with a second wireless communication device of the plurality of wireless communication devices, a second communication signal of the communication signals, wherein the second communication signal includes access data.

3. The method of claim 1,

wherein the determining includes:

determining, by the first wireless communication device, the first transmission gap period based on at least one of a capability parameter of a second wireless communication device of the plurality of wireless communication devices, scheduling information of the second wireless communication device, a transmit-receive switching requirement of the second wireless communication device, or a synchronization reference switching requirement of the second wireless communication device, and

wherein the communicating includes:

communicating, by the first wireless communication device with the second wireless communication device, the first communication signal based on the first transmission gap period.

4. The method of claim 3, further comprising:

transmitting, by the first wireless communication device to the second wireless communication device, a message including a transmission frame configuration indicating the first transmission gap period.

5. The method of claim 3,

wherein the determining includes:

determining, by the first wireless communication device, a second transmission gap period based on at least one of a capability parameter of a third wireless communication device of the plurality of wireless communication devices, scheduling information of the third wireless communication device, a transmit-receive switching requirement of the third wireless communication device, or a synchronization reference switching requirement of the third wireless communication device, the second transmission gap period being different from the first transmission gap period, and

wherein the communicating includes:

communicating, by the first wireless communication device with the third wireless communication device, a second communication signal of the communication signals based on the second transmission gap period.

6. The method of claim 1, wherein the communicating includes:

communicating, by the first wireless communication device with a second wireless communication device of the plurality of wireless communication devices, the first communication signal based on the first CP type.

7. The method of claim 6, further comprising:

switching, by the first wireless communication device, from the first CP type to a second CP type based on at least one of capability parameters of the plurality of wireless communication devices, transmit-receive switching requirements of the plurality of wireless communication devices, synchronization reference switching requirements the plurality of wireless communication devices, or synchronization references of the plurality of wireless communication device, wherein the first CP type and the second CP type include different CP lengths,

wherein the communicating the communications signals includes:

communicating, by the first wireless communication device with the second wireless communication device, a second communication signal of the communication signals based on the second CP type.

8. The method of claim 7, further comprising:

transmitting, by the first wireless communication device to the second wireless communication device, a message indicating the second CP type.

9. The method of claim 1, wherein the communicating includes:

communicating, by the first wireless communication device with a second wireless communication device of the plurality of wireless communication devices at a next uplink hop with respect to the first wireless communication device, a second communication signal of the communication signals during a first time period; and

communicating, by the first wireless communication device with a third wireless communication device of the plurality of wireless communication devices at a next downlink hop with respect to the first wireless communication device, a third communication signal of the communication signals during a second time period different from the first time period.

10. A method of wireless communication, comprising:

determining, by a central entity, one or more transmission frame configurations for a first wireless communication device of a plurality of wireless communication devices of a multi-hop wireless network, wherein the one or more transmission frame configurations includes at least one of a first transmission gap period or a first cyclic prefix (CP) type; and

transmitting, by the central entity, a message instructing the first wireless communication device to communicate communication signals with one or more other wireless communication devices of the plurality of wireless communication devices based on the one or more transmission frame configurations, wherein at least a first communication signal of the communication signals includes backhaul data.

11. The method of claim 10, further comprising:

receiving, by the central entity from each of the plurality of wireless communication devices, one or more communication requirement parameters including at least one of a capability parameter, scheduling information, a transmit-receive switching requirement, or a synchronization reference switching requirement,

wherein the determining is based on the one or more communication requirement parameters.

12. The method of claim 10, wherein the transmitting includes:

transmitting, by the central entity to the first wireless communication device, a message indicating the first transmission gap period.

13. The method of claim 10, wherein the transmitting includes:

transmitting, by the central entity to the first wireless communication device, a message indicating the first CP type.

14. The method of claim 13, further comprising:

determining, by the central entity, to switch from the first CP type to a second CP type based on at least one or more capability requirement parameters received by the central entity from the plurality of wireless communication devices, wherein the first CP type and the second CP type include different CP lengths,

wherein the transmitting includes:

transmitting, by the central entity to the first wireless communication device, a message instructing the first wireless communication device to switch from the first CP type to the second CP type.

15. The method of claim 13, further comprising:

determining, by the central entity, to switch from the first CP type to a second CP type based on one or more synchronization references received by the central entity from the plurality of wireless communication devices, wherein the first CP type and the second CP type include different CP lengths,

wherein the transmitting includes:

transmitting, by the central entity to the first wireless communication device, a message instructing the first wireless communication device to switch from the first CP type to the second CP type.

16. An apparatus comprising:

a processor configured to determine one or more transmission frame configurations for communicating with a plurality of wireless communication devices of a multi-hop

wireless network, wherein each of the one or more transmission frame configurations includes at least a first transmission gap period or a first cyclic prefix (CP) type; and

a transceiver configured to communicate, with the plurality of wireless communication devices, communication signals based on the one or more transmission frame configurations, wherein at least a first communication signal of the communication signals includes backhaul data.

17. The apparatus of claim 16, wherein the transceiver is further configured to communicate the communication signals by:

communicating, with a first wireless communication device of the plurality of wireless communication devices, a second communication signal of the communication signals, wherein the second communication signal includes access data.

18. The apparatus of claim 16,

wherein the processor is further configured to determine the one or more transmission frame configurations by:

determining the first transmission gap period based on at least one of a capability parameter of a first wireless communication device of the plurality of wireless communication devices, scheduling information of the first wireless communication device, a transmit-receive switching requirement of the first wireless communication device, or a synchronization reference switching requirement of the first wireless communication device, and

wherein the transceiver is further configured to communicate the communication signals by:

communicating, with the first wireless communication device, the first communication signal based on the first transmission gap period.

19. The apparatus of claim 18, wherein the transceiver is further configured to:

transmit, to the first wireless communication device, a message including a transmission frame configuration indicating the first transmission gap period.

20. The apparatus of claim 18,

wherein the processor is further configured to determine the one or more transmission frame configurations by:

determining a second transmission gap period based on at least one of a capability parameter of a second wireless communication device of the plurality of wireless communication devices, scheduling information of the second wireless communication device, a transmit-receive switching requirement of the second wireless communication device, or a synchronization reference switching requirement of the second wireless communication device, the second transmission gap period being different from the first transmission gap period, and

wherein the transceiver is further configured to communicate the communication signals by:

communicating, with the second wireless communication device, a second communication signal of the communication signals based on the second transmission gap period.

21. The apparatus of claim 16, wherein the transceiver is further configured to communicate the communication signals by:

communicating, with a first wireless communication device of the plurality of wireless communication devices, the first communication signal based on the first CP type.

22. The apparatus of claim 21,

wherein the processor is further configured to:

switch from the first CP type to a second CP type based on at least one of capability parameters of the plurality of wireless communication devices, transmit-receive switching requirements of the plurality of wireless communication devices, synchronization reference switching requirements the plurality of wireless communication devices, or synchronization references of the plurality of wireless communication device, wherein the first CP type and the second CP type include different CP lengths, and

wherein the transceiver is further configured to communicate the communication signals by:

communicating, with the first wireless communication device, a second communication signal of the communication signals based on the second CP type.

23. The apparatus of claim 22, wherein the transceiver is further configured to communicate the communication signals by:

transmitting, to the first wireless communication device, a message indicating the second CP type.

24. The apparatus of claim 16, wherein the transceiver is further configured to communicate the communication signals by:

communicating, with a first wireless communication device of the plurality of wireless communication devices at a next uplink hop with respect to the apparatus, a second communication signal of the communication signals during a first time period; and

communicating, with a second wireless communication device of the plurality of wireless communication devices at a next downlink hop with respect to the first wireless communication device, a third communication signal of the communication signals during a second time period different from the first time period.

25. An apparatus comprising:

a processor configured to determine one or more transmission frame configurations for a first wireless communication device of a plurality of wireless communication devices of a multi-hop wireless network, wherein the one or more transmission frame configurations includes at least one of a first transmission gap period or a first cyclic prefix (CP) type; and

a transceiver configured to transmit a message instructing the first wireless communication device to communicate communication signals with one or more other wireless communication devices of the plurality of wireless communication devices based on the one or more transmission frame configurations, wherein at least a first communication signal of the communication signals includes backhaul data.

26. The apparatus of claim 25, wherein the transceiver is further configured to:

receive, from each of the plurality of wireless communication devices, one or more communication requirement parameters including at least one of a capability parameter, scheduling information, a transmit-receive switching requirement, or a synchronization reference switching requirement, and

wherein the one or more transmission frame configurations are determined based on the one or more communication requirement parameters.

27. The apparatus of claim 25, wherein the message indicates the first transmission gap period.

28. The apparatus of claim 25, wherein the message indicates the first CP type.

29. The apparatus of claim 28, wherein the processor is further configured to:

determine to switch from the first CP type to a second CP type based on at least one or more capability requirement parameters received by the apparatus from the plurality of wireless communication devices, wherein the first CP type and the second CP type include different CP lengths, and

wherein the message includes an instruction instructing the first wireless communication device to switch from the first CP type to the second CP type.

30. The apparatus of claim 28, wherein the processor is further configured to:

determine to switch from the first CP type to a second CP type based on one or more synchronization references received by the apparatus from the plurality of wireless communication devices, wherein the first CP type and the second CP type include different CP lengths, and

wherein the message includes an instruction instructing the first wireless communication device to switch from the first CP type to the second CP type.