

CLAIMS

WHAT IS CLAIMED IS:

1. A method for wireless communication, comprising:
 - receiving a first communication according to a first timeline, wherein the first timeline is based on a first cyclic prefix (CP) type;
 - receiving a second communication according to a second timeline, wherein the second timeline is based on a second CP type, and wherein the second communication is multiplexed with the first communication in the same slot;
 - decoding the first communication based on a first length of the first CP type; and
 - decoding the second communication based on a second length of the second CP type.
2. The method of claim 1, further comprising receiving a first slot format indicator from which a first slot format is derived, wherein receiving the first communication according to the first timeline is further based on the first slot format.
3. The method of claim 2, further comprising determining, based on the first slot format, a second slot format, wherein receiving the second communication according to the second timeline is further based on the second slot format.
4. The method of claim 3, wherein determining the second slot format comprises determining the second slot format to comply with the first slot format such that:
 - one or more first slot format downlink symbols assigned for receiving downlink communications in the first slot format at least partially overlap in a time domain with one or more second slot format downlink symbols in the second slot format; and
 - one or more first slot format uplink symbols assigned for transmitting uplink communications in the first slot format at least partially overlap in the time domain with one or more second slot format uplink symbols in the second slot format.

5. The method of claim 4, wherein determining the second slot format comprises interpolating the second slot format from the first slot format based on the second timeline.

6. The method of claim 5, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as the one or more second slot format downlink symbols based on determining the overlap in the time domain with the one or more first slot format downlink symbols in the first timeline.

7. The method of claim 5, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as the one or more second slot format uplink symbols based on determining the overlap in the time domain with the one or more first slot format uplink symbols in the first timeline.

8. The method of claim 5, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as one or more second slot format flexible symbols based on determining an overlap in the time domain with one or more first format flexible symbols in the first timeline.

9. The method of claim 5, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as one or more second slot format reserved symbols based on determining an overlap in the time domain with both a first format downlink symbol and a first format uplink symbol in the first timeline.

10. The method of claim 3, further comprising receiving a configuration comprising one or more rules for interpolating the second slot format, wherein determining the second slot format is based at least in part on the one or more rules.

11. The method of claim 3, wherein the at least one of the first slot format or the second slot format include one or more guard periods between a first symbol in the first timeline and a second symbol in the second timeline during which communications are prohibited according to the at least one of the first slot format or the second slot format.

12. The method of claim 2, further comprising receiving a second slot format indicator from which a second slot format is derived, wherein receiving the second communication according to the second timeline is further based on the second slot format.

13. The method of claim 1, further comprising multiplexing, within the slot, a third communication based on the first CP type and a fourth communication based on the second CP type; and

transmitting, within the slot, the third communication based on the first timeline and the fourth communication based on the second timeline.

14. The method of claim 1, further comprising:

decoding the first communication based on a first subcarrier spacing associated with the first CP type; and

decoding the second communication based on a second subcarrier spacing associated with the second CP type, wherein the first subcarrier spacing is different than the second subcarrier spacing.

15. A method for wireless communication, comprising:

multiplexing, within a slot, a first communication based on a first cyclic prefix (CP) type and a second communication based on a second CP type; and

transmitting, within the slot, the first communication based on a first timeline corresponding to the first CP type and the second communication based on a second timeline corresponding to the second CP type.

16. The method of claim 15, wherein transmitting the first communication is based on a first slot format defined according to the first timeline and transmitting the second communication is based on a second slot format defined according to the second timeline.

17. The method of claim 16, further comprising determining, based on the first slot format, the second slot format.

18. The method of claim 17, wherein determining the second slot format comprises determining the second slot format to comply with the first slot format such that:

one or more first slot format downlink symbols assigned for receiving downlink communications in the first slot format at least partially overlap in a time domain with one or more second slot format downlink symbols in the second slot format; and

one or more first slot format uplink symbols assigned for transmitting uplink communications in the first slot format at least partially overlap in the time domain with one or more second slot format uplink symbols in the second slot format.

19. The method of claim 18, wherein determining the second slot format comprises interpolating the second slot format from the first slot format based on the second timeline.

20. The method of claim 19, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as the one or more second slot format downlink symbols based on determining the overlap in the time domain with the one or more first slot format downlink symbols in the first timeline.

21. The method of claim 19, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as the one or more second slot format uplink symbols based on determining the overlap in the time domain with the one or more first slot format uplink symbols in the first timeline.

22. The method of claim 19, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as one or more second slot format flexible symbols based on determining an overlap in the time domain with one or more first format flexible symbols in the first timeline.

23. The method of claim 19, wherein interpolating the second slot format comprises determining one or more symbols in the second slot format as one or more second slot format reserved symbols based on determining an overlap in the time domain

with both a first format downlink symbol and a first format uplink symbol in the first timeline.

24. The method of claim 17, wherein determining the second slot format comprises determining a second slot format indicator indicated as compatible with the first slot format.

25. The method of claim 16, further comprising transmitting an indication of the second slot format.

26. The method of claim 16, further comprising transmitting a configuration comprising one or more rules for interpolating the second slot format based on the first slot format.

27. The method of claim 16, wherein transmitting the first communication and the second communication comprises defining one or more guard periods between a first symbol in the first timeline and a second symbol in the second timeline during which communications are prohibited according to the at least one of the first slot format or the second slot format.

28. The method of claim 15, wherein transmitting the first communication is based on a first subcarrier spacing associated with the first CP type, and transmitting the second communication is based on a second subcarrier spacing associated with the second CP type, wherein the first subcarrier spacing is different than the second subcarrier spacing.

29. An apparatus for wireless communication, comprising:
a transceiver;
a memory configured to store instructions; and
one or more processors communicatively coupled with the transceiver and the memory, wherein the one or more processors are configured to:
receive a first communication according to a first timeline, wherein the first timeline is based on a first cyclic prefix (CP) type;

receive a second communication according to a second timeline, wherein the second timeline is based on a second CP type, and wherein the second communication is multiplexed with the first communication in the same slot;

decode the first communication based on a first length of the first CP type; and

decode the second communication based on a second length of the second CP type.

30. An apparatus for wireless communication, comprising:

a transceiver;

a memory configured to store instructions; and

one or more processors communicatively coupled with the transceiver and the memory, wherein the one or more processors are configured to:

multiplex, within a slot, a first communication based on a first cyclic prefix (CP) type and a second communication based on a second CP type; and

transmit, within the slot, the first communication based on a first timeline corresponding to the first CP type and the second communication based on a second timeline corresponding to the second CP type.