

CLAIMS

1. A method for wireless communication, comprising: receiving, by a user equipment (UE), a primary synchronization signal (PSS) and a secondary synchronization signal (SSS) in a first subframe of a frame, wherein, in the first subframe, the SSS is received in a symbol of the first subframe that is after a symbol of the first subframe in which the PSS is received, and after a set of symbols of the first subframe in which a set of other synchronization signals is received, and wherein, in a second subframe of the frame, the SSS is received in a symbol of the second subframe that is before a symbol of the second subframe in which the PSS is received; and synchronizing, by the UE, with a base station based at least in part on the PSS and the SSS received in the first subframe.
2. The method of claim 1, further comprising: receiving the PSS and the SSS in the second subframe of the frame, wherein the SSS is received in a symbol of the second subframe that is further before a set of symbols of the second subframe in which the set of other synchronization signals is received, wherein the second subframe is before the first subframe, and wherein the apparatus is configured to synchronize with the base station based at least in part on the PSS or the SSS received in the second subframe.
3. The method of claim 2, wherein: within the first subframe: the symbols in which the PSS and the SSS are received are at a first particular location, and the set of symbols in which the set of other synchronization signals is received is at a second particular location; and within the second subframe: the set of symbols in which the set of other synchronization signals is received is at the first particular location, and the symbols in which the PSS and the SSS are received are at the second particular location.
4. The method of claim 3, wherein: within the first subframe: another PSS, included in the set of other synchronization signals, is received in a symbol, at the second particular location, that is before a symbol in which another SSS, included in the set of other synchronization signals, is received; and within the second subframe: the other PSS, included in the set of other synchronization signals, is received in a symbol, at the first particular location, that is after a symbol in which the other SSS, included in the set of other synchronization signals, is received.
5. The method of claim 1, further comprising: receiving the PSS and the SSS in a third subframe of the frame, wherein the SSS is received in a symbol of the third subframe that is after a symbol of the third subframe in which the PSS is received, and after a set of symbols of the third subframe in which the set of other synchronization signals is received, wherein the third subframe is after the first subframe, and wherein the apparatus is configured to synchronize with the base station based at least in part on the PSS or the SSS received in the third subframe.

6. A method for wireless communication, comprising: generating, by a base station, a secondary synchronization signal (SSS) based at least in part on a cell identifier group associated with the base station; and transmitting, by the base station, the SSS and a primary synchronization signal (PSS) in a first subframe of a frame, wherein, in the first subframe, the SSS is transmitted in a symbol of the first subframe that is after a symbol of the first subframe in which the PSS is transmitted, and after a set of symbols of the first subframe in which a set of other synchronization signals is transmitted, and wherein, in a second subframe of the frame, the SSS is transmitted in a symbol of the second subframe that is before a symbol of the second subframe in which the PSS is transmitted.

7. The method of claim 6, further comprising: transmitting the PSS and the SSS in the second subframe, wherein the SSS is transmitted in a symbol of the second subframe that is further before a set of symbols of the second subframe in which the set of other synchronization signals is transmitted, wherein the second subframe is before the first subframe, and wherein a user equipment is configured to synchronize with the base station based at least in part on the PSS or the SSS transmitted in the second subframe.

8. The method of claim 7, wherein: within the first subframe: the symbols in which the PSS and the SSS are transmitted are at a first particular location, and the set of symbols in which the set of other synchronization signals is transmitted is at a second particular location; and within the second subframe: the set of symbols in which the set of other synchronization signals is transmitted is at the first particular location, and the symbols in which the PSS and the SSS are transmitted are at the second particular location.

9. The method of claim 8, wherein: within the first subframe: another PSS, included in the set of other synchronization signals, is transmitted in a symbol, at the second particular location, that is before a symbol in which another SSS, included in the set of other synchronization signals, is transmitted; and within the second subframe: the other PSS, included in the set of other synchronization signals, is transmitted in a symbol, at the first particular location, that is after a symbol in which the other SSS, included in the set of other synchronization signals, is transmitted.

10. The method of claim 6, further comprising: transmitting the PSS and the SSS in a third subframe of the frame, wherein the SSS is transmitted in a symbol of the third subframe that is after a symbol of the third subframe in which the PSS is transmitted, and after a set of symbols of the third subframe in which the set of other synchronization signals is transmitted, wherein the third subframe is after the first subframe, and wherein a user equipment is configured to synchronize with the base station based at least in part on the PSS or the SSS transmitted in the third subframe.

11. An apparatus for wireless communication, 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: receive a primary synchronization signal (PSS) and a secondary synchronization signal (SSS) in a first subframe of a frame, wherein, in the first subframe, the SSS is received in a symbol of the first subframe that is after a symbol of the first subframe in which the PSS is received, and after a set of symbols of the first subframe in which a set of other synchronization signals is received, and wherein, in a second subframe of the frame, the SSS is received in a symbol of the second subframe that is before a symbol of the second subframe in which the PSS is received; and synchronize the apparatus with a base station based at least in part on the PSS and the SSS received in the first subframe.
12. The apparatus of claim 11, wherein the instructions are further executable by the processor to: receive the PSS and the SSS in the second subframe of the frame, wherein the SSS is received in the symbol of the second subframe that is further before a set of symbols of the second subframe in which the set of other synchronization signals is received, wherein the second subframe is before the first subframe, and wherein the apparatus is configured to synchronize with the base station based at least in part on the PSS or the SSS received in the second subframe.
13. The apparatus of claim 12, wherein: within the first subframe: the symbols in which the PSS and the SSS are received are at a first particular location, and the set of symbols in which the set of other synchronization signals is received is at a second particular location; and within the second subframe: the set of symbols in which the set of other synchronization signals is received is at the first particular location, and the symbols in which the PSS and the SSS are received are at the second particular location.
14. The apparatus of claim 13, wherein: within the first subframe: another PSS, included in the set of other synchronization signals, is received in a symbol, at the second particular location, that is before a symbol in which another SSS, included in the set of other synchronization signals, is received; and within the second subframe: the other PSS, included in the set of other synchronization signals, is received in a symbol, at the first particular location, that is after a symbol in which the other SSS, included in the set of other synchronization signals, is received.
15. The apparatus of claim 11, wherein the instructions are further executable by the processor to: receive the PSS and the SSS in a third subframe of the frame, wherein the SSS is received in a symbol of the third subframe that is after a symbol of the third subframe in which the PSS is received, and after a set of symbols of the third subframe in which the set of other synchronization signals is received, wherein the third subframe is after the first subframe, and wherein the apparatus is configured to synchronize with the base station based at least in part on the PSS or the SSS received in the third subframe.

16. An apparatus for wireless communication, 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: generate a secondary synchronization signal (SSS) based at least in part on a cell identifier group associated with a base station; and transmit the SSS and a primary synchronization signal (PSS) in a first subframe of a frame, wherein, in the first subframe, the SSS is transmitted in a symbol of the first subframe that is after a symbol of the first subframe in which the PSS is transmitted, and after a set of symbols of the first subframe in which a set of other synchronization signals is transmitted, and wherein, in a second subframe of the frame, the SSS is transmitted in a symbol of the second subframe that is before a symbol of the second subframe in which the PSS is transmitted.

17. The apparatus of claim 16, wherein the instructions are further executable by the processor to: transmit the PSS and the SSS in the second subframe, wherein the SSS is transmitted in a symbol of the second subframe that is further before a set of symbols of the second subframe in which the set of other synchronization signals is transmitted, wherein the second subframe is before the first subframe, and wherein the apparatus is configured to synchronize with a base station based at least in part on the PSS or the SSS transmitted in the second subframe.

18. The apparatus of claim 17, wherein: within the first subframe: the symbols in which the PSS and the SSS are transmitted are at a first particular location, and the set of symbols in which the set of other synchronization signals is transmitted is at a second particular location; and within the second subframe: the set of symbols in which the set of other synchronization signals is transmitted is at the first particular location, and the symbols in which the PSS and the SSS are transmitted are at the second particular location.

19. The apparatus of claim 18, wherein: within the first subframe: another PSS, included in the set of other synchronization signals, is transmitted in a symbol, at the second particular location, that is before a symbol in which another SSS, included in the set of other synchronization signals, is transmitted; and within the second subframe: the other PSS, included in the set of other synchronization signals, is transmitted in a symbol, at the first particular location, that is after a symbol in which the other SSS, included in the set of other synchronization signals, is transmitted.

20. The apparatus of claim 16, wherein the instructions are further executable by the processor to: transmit the PSS and the SSS in a third subframe of the frame, wherein the SSS is transmitted in a symbol of the third subframe that is after a symbol of the third subframe in which the PSS is transmitted, and after a set of symbols of the third subframe in which the set of other synchronization signals is transmitted, wherein the third subframe is after the first subframe, and wherein the apparatus is configured to synchronize with the base station based at least in part on

the PSS or the SSS transmitted in the third subframe.

21. A non-transitory computer readable medium storing code for wireless communication, the code comprising instructions executable by a processor to: receive a primary synchronization signal (PSS) and a secondary synchronization signal (SSS) in a first subframe of a frame, wherein, in the first subframe, the SSS is received in a symbol of the first subframe that is after a symbol of the first subframe in which the PSS is received, and after a set of symbols of the first subframe in which a set of other synchronization signals is received, and wherein, in a second subframe of the frame, the SSS is received in a symbol of the second subframe that is before a symbol of the second subframe in which the PSS is received; and synchronize a user equipment with a base station based at least in part on the PSS and the SSS received in the first subframe.

22. The non-transitory computer readable medium of claim 21, wherein the instructions are further executable by the processor to: receive the PSS and the SSS in the second subframe, wherein the SSS is received in the symbol of the second subframe that is further before a set of symbols of the second subframe in which the set of other synchronization signals is received, wherein the second subframe is before the first subframe, and wherein the user equipment is configured to synchronize with the base station based at least in part on the PSS or the SSS received in the second subframe.

23. The non-transitory computer readable medium of claim 22, wherein: within the first subframe: the symbols in which the PSS and the SSS are received are at a first particular location, and the set of symbols in which the set of other synchronization signals is received is at a second particular location; and within the second subframe: the set of symbols in which the set of other synchronization signals is received is at the first particular location, and the symbols in which the PSS and the SSS are received are at the second particular location.

24. The non-transitory computer readable medium of claim 23, wherein: within the first subframe: another PSS, included in the set of other synchronization signals, is received in a symbol, at the second particular location, that is before a symbol in which another SSS, included in the set of other synchronization signals, is received; and within the second subframe: the other PSS, included in the set of other synchronization signals, is received in a symbol, at the first particular location, that is after a symbol in which the other SSS, included in the set of other synchronization signals, is received.

25. The non-transitory computer readable medium of claim 21, wherein the instructions are further executable by the processor to: receive the PSS and the SSS in a third subframe of the frame, wherein the SSS is received in a symbol of the third subframe that is after a symbol of the third subframe in which the PSS is received, and after a set of symbols of the third subframe in which the set of other synchronization signals is received, wherein the third subframe is after the

first subframe, and wherein the user equipment is configured to synchronize with the base station based at least in part on the PSS or the SSS received in the third subframe.

26. A non-transitory computer readable medium storing code for wireless communication, the code comprising instructions executable by a processor to: generate a secondary synchronization signal (SSS) based at least in part on a cell identifier group associated with a base station; and transmit the SSS and a primary synchronization signal (PSS) in a first subframe of a frame, wherein, in the first subframe, the SSS is transmitted in a symbol of the first subframe that is after a symbol of the first subframe in which the PSS is transmitted, and after a set of symbols of the first subframe in which a set of other synchronization signals is transmitted, and wherein, in a second subframe of the frame, the SSS is transmitted in a symbol of the second subframe that is before a symbol of the second subframe in which the PSS is transmitted.

27. The non-transitory computer readable medium of claim 26, wherein the instructions are further executable by the processor to: transmit the PSS and the SSS in the second subframe, wherein the SSS is transmitted in a symbol of the second subframe that is further before a set of symbols of the second subframe in which the set of other synchronization signals is transmitted, wherein the second subframe is before the first subframe, and wherein a user equipment is configured to synchronize with the base station based at least in part on the PSS or the SSS transmitted in the second subframe.

28. The non-transitory computer readable medium of claim 27, wherein: within the first subframe: the symbols in which the PSS and the SSS are transmitted are at a first particular location, and the set of symbols in which the set of other synchronization signals is transmitted is at a second particular location; and within the second subframe: the set of symbols in which the set of other synchronization signals is transmitted is at the first particular location, and the symbols in which the PSS and the SSS are transmitted are at the second particular location.

29. The non-transitory computer readable medium of claim 28, wherein: within the first subframe: another PSS, included in the set of other synchronization signals, is transmitted in a symbol, at the second particular location, that is before a symbol in which another SSS, included in the set of other synchronization signals, is transmitted; and within the second subframe: the other PSS, included in the set of other synchronization signals, is transmitted in a symbol, at the first particular location, that is after a symbol in which the other SSS, included in the set of other synchronization signals, is transmitted.

30. The non-transitory computer readable medium of claim 26, wherein the instructions are further executable by the processor to: transmit the PSS and the SSS in a third subframe of the frame, wherein the SSS is transmitted in a symbol of the third subframe that is after a symbol of the third subframe in which the PSS is transmitted, and after a set of symbols of the third

subframe in which the set of other synchronization signals is transmitted, wherein the third subframe is after the first subframe, and wherein a user equipment is configured to synchronize with the base station based at least in part on the PSS or the SSS transmitted in the third subframe.