~~WHAT IS CLAIMED IS:~~

CLAIMS

1. A method of wireless communication performed by a user equipment (UE), comprising:

receiving a first information element (IE) and a second IE, wherein the first IE indicates whether ~~all~~ UEs that do not support cell-specific reference signal (CRS) muting are barred from a carrier and the second IE indicates whether ~~all~~ UEs that support CRS muting are barred from the carrier; ~~and~~

selectively accessing the carrier based at least in part on at least one of the first IE or the second IE; receiving, from a serving base station, an indication of one or more carriers of a neighbor base station that use CRS muting, wherein the indication is received in at least one of a neighbor cell list, system information, a radio resource control message, or a combination thereof; and selectively accessing at least one of the one or more carriers based at least in part on whether the UE supports CRS muting.

2. The method of claim 1, wherein the carrier is not accessed when the UE does not support CRS muting and the first IE indicates that ~~all~~ UEs that do not support CRS muting are barred from the carrier, or wherein the carrier is accessed when the UE does not support CRS muting and the first IE indicates that ~~all~~ UEs that do not support CRS muting are not barred from the carrier.

3. The method of claim 1, wherein the carrier is not accessed when the UE supports CRS muting and the second IE indicates that ~~all~~ UEs that support CRS muting are barred from the carrier, or wherein the carrier is accessed when the UE supports CRS muting and the second IE indicates that ~~all~~ UEs that support CRS muting are not barred from the carrier.

4. The method of claim 1, wherein the carrier is accessed, regardless of an indication of the first IE, when the UE supports CRS muting and the second IE indicates that ~~all~~ UEs that support CRS muting are not barred from the carrier.

5. The method of claim 1, wherein at least one of the first IE or the second IE is for UEs that are not capable of communicating with a 5G core network.

6. The method of claim 1, wherein at least one of the first IE or the second IE is for UEs that are capable of communicating with a 5G core network.

7. The method of claim 1, further comprising receiving a third IE, wherein the third IE indicates whether UEs that support CRS muting and that are in a particular set of access classes are barred from the carrier; and

selectively accessing the carrier based at least in part on at least one of the first IE, the second IE, or the third IE.

8. The method of claim 7, wherein the indication of the third IE is public land mobile network (PLMN)-specific.

9. The method of claim 7, wherein the third IE is for UEs that are not capable of communicating with a 5G core network.

10. The method of claim 7, wherein the third IE is for UEs that are capable of communicating with a 5G core network.

~~11. The method of claim 1, further comprising:~~

~~receiving, from a serving base station, an indication of one or more carriers of a neighbor base station that use CRS muting; and~~

~~selectively accessing at least one of the one or more carriers based at least in part on whether the UE supports CRS muting.~~

~~12. The method of claim 11, wherein the indication is received in at least one of a neighbor cell list, system information, a radio resource control message, or a combination thereof.~~

~~13.~~11. The method of claim 1, further comprising transmitting a capability report that indicates whether the UE supports CRS muting.

12. The method of claim 1, wherein the indication is received in the radio resource control message.

13. The method of claim 1, wherein the indication uses at least one of a first set of carrier identifiers that identify a set of carriers that support CRS muting or a second set of carrier identifiers that identify a set of carriers that do not support CRS muting.

14. A method of wireless communication performed by a base station, comprising:

determining whether a carrier, associated with the base station, uses cell-specific reference signal (CRS) muting;

configuring a first information element (IE) and a second IE based at least in part on determining whether the carrier uses CRS muting, wherein the first IE indicates whether ~~all~~ user equipment (UEs) that do not support CRS muting are barred from the carrier and the second IE indicates whether ~~all UEs that support CRS muting are barred from the carrier; and~~UEs that support CRS muting are barred from the carrier; transmitting the first IE and the second IE to a UE; receiving, from a neighbor base station, an indication of one or more carriers of the neighbor base station that use CRS muting; and transmitting, to the UE, information that identifies the one or more carriers of the neighbor base station that use CRS muting, wherein the information is transmitted in at

least one of a neighbor cell list, system information, a radio resource control message, or a combination thereof.

~~transmitting the first IE and the second IE to a UE.~~

15. The method of claim 14, wherein the first IE is configured to indicate that ~~all~~ UEs that do not support CRS muting are barred from the carrier and the second IE is configured to indicate that ~~all~~ UEs that support CRS muting are not barred from the carrier based at least in part on a determination that the carrier uses CRS muting.

16. The method of claim 14, wherein at least one of the first IE or the second IE is for UEs that are not capable of communicating with a 5G core network.

17. The method of claim 14, wherein at least one of the first IE or the second IE is for UEs that are capable of communicating with a 5G core network.

18. The method of claim 14, further comprising configuring a third IE based at least in part on determining whether the carrier uses CRS muting, wherein the third IE indicates whether UEs that support CRS muting and that are in a particular set of access classes are barred from the carrier; and transmitting the third IE to the UE.

~~transmitting the third IE to the UE.~~

19. The method of claim 18, wherein the first IE is configured to indicate that ~~all~~ UEs that do not support CRS muting are barred from the carrier, the second IE is configured to indicate that ~~all~~ UEs that support CRS muting are barred from the carrier, and the third IE is configured to indicate that access to the carrier is reserved for UEs that are not in the particular set of access classes based at least in part on a determination that the carrier uses CRS muting and that access to the carrier is to be reserved for operator use.

20. The method of claim 18, wherein the indication of the third IE is public land mobile network (PLMN)-specific.

21. The method of claim 18, wherein the third IE is for UEs that are not capable of communicating with a 5G core network.

22. The method of claim 18, wherein the third IE is for UEs that are capable of communicating with a 5G core network.

~~23. The method of claim 14, further comprising:~~

~~receiving, from a neighbor base station, an indication of one or more carriers of the neighbor base station that use CRS muting; and~~

~~transmitting, to the UE, information that identifies the one or more carriers of the neighbor base station that use CRS muting.~~

~~24. The method of claim 23, wherein the information is transmitted in at least one of a neighbor cell list, system information, a radio resource control message, or a combination thereof.~~

~~25.~~23. The method of claim 14, further comprising receiving a capability report that indicates whether the UE supports CRS muting.

24. The method of claim 14, wherein the information is transmitted in the radio resource control message.

25. The method of claim 14, wherein the indication uses at least one of a first set of carrier identifiers that identify a set of carriers that support CRS muting or a second set of carrier identifiers that identify a set of carriers that do not support CRS muting.

26. The method of claim 14, wherein the indication includes separate indications for different operating frequencies.

~~26.~~27. A method of wireless communication performed by a user equipment (UE) comprising:

receiving a master information block (MIB) or a physical broadcast channel (PBCH);

determining that descrambling the MIB or the PBCH based at least in part on a first scrambling sequence results in an error~~; and~~

, wherein the first scrambling sequence is based at least in part on a physical cell identifier; and descrambling the MIB or the PBCH based at least in part on a second scrambling sequence based at least in part on determining that descrambling the MIB or the PBCH based at least in part on the first scrambling sequence results in the error~~.~~

~~27. The method of claim 26, wherein the first scrambling sequence is based at least in part on a physical cell identifier, and,~~ wherein the second scrambling sequence is based at least in part on a physical cell identifier plus a predefined value.

28. The method of claim ~~26~~27, wherein the MIB or the PBCH is descrambled based at least in part on the second scrambling sequence based at least in part on a determination that the UE supports cell-specific reference signal (CRS) muting.

29. A method of wireless communication performed by a user equipment (UE), comprising:

determining that a primary synchronization signal (PSS) or a secondary synchronization signal (SSS) is not present in a corresponding first symbol or second symbol; and

monitoring a third symbol for the PSS and a fourth symbol for the SSS based at least in part on determining that the PSS or the SSS is not present in the corresponding first symbol or second symbol, wherein the third symbol has a different symbol position than the first symbol within a resource block, and wherein the fourth symbol has a different symbol position than the second symbol within the resource block.

30. The method of claim 29, wherein the third symbol has a same symbol position as the second symbol within the resource block, and wherein the fourth symbol has a same symbol position as the first symbol within the resource block.

31. The method of claim 29, wherein the third symbol and the fourth symbol are monitored based at least in part on a determination that the UE supports cell-specific reference signal (CRS) muting.

32. A user equipment (UE) for wireless communication, comprising: memory; one or more processors coupled to the memory; and instructions stored in the memory and operable, when executed by the one or more processors, to cause the UE to: receive a first information element (IE) and a second IE, wherein the first IE indicates whether UEs that do not support cell-specific reference signal (CRS) muting are barred from a carrier and the second IE indicates whether UEs that support CRS muting are barred from the carrier; selectively access the carrier based at least in part on at least one of the first IE or the second IE; receive, from a serving base station, an indication of one or more carriers of a neighbor base station that use CRS muting, wherein the indication is received in at least one of a neighbor cell list, system information, a radio resource control message, or a combination thereof; and selectively access at least one of the one or more carriers based at least in part on whether the UE supports CRS muting.

33. The UE of claim 32, wherein the carrier is not accessed when the UE does not support CRS muting and the first IE indicates that UEs that do not support CRS muting are barred from the carrier, or wherein the carrier is accessed when the UE does not support CRS muting and the first IE indicates that UEs that do not support CRS muting are not barred from the carrier.

34. The UE of claim 32, wherein the carrier is not accessed when the UE supports CRS muting and the second IE indicates that UEs that support CRS muting are barred from the carrier, or wherein the carrier is accessed when the UE supports CRS muting and the second IE indicates that UEs that support CRS muting are not barred from the carrier.

35. A base station for wireless communication, comprising: memory; one or more processors coupled to the memory; and instructions stored in the memory and operable, when executed by the one or more processors, to cause the base station to: determine whether a carrier, associated with the base station, uses cell-specific reference signal (CRS) muting; configure a first information element (IE) and a second IE based at least in part on determining whether the carrier uses CRS muting, wherein the first IE indicates whether user equipment (UEs) that do not support CRS muting are barred from the carrier and the second IE indicates whether UEs that support CRS muting are

barred from the carrier; transmit the first IE and the second IE to a UE; receive, from a neighbor base station, an indication of one or more carriers of the neighbor base station that use CRS muting; and transmit, to the UE, information that identifies the one or more carriers of the neighbor base station that use CRS muting, wherein the information is transmitted in at least one of a neighbor cell list, system information, a radio resource control message, or a combination thereof.

36. The base station of claim 35, wherein the first IE is configured to indicate that UEs that do not support CRS muting are barred from the carrier and the second IE is configured to indicate that UEs that support CRS muting are not barred from the carrier based at least in part on a determination that the carrier uses CRS muting.

37. The base station of claim 35, wherein at least one of the first IE or the second IE is for UEs that are not capable of communicating with a 5G core network.