

CLAIMS

WHAT IS CLAIMED IS:

1. A method of wireless communication at a user equipment (UE), comprising:
determining at least one UE capability; and
signaling UE capability information to a base station, including:
 signaling Radio Frequency (RF) capability information to the base station
 with reference to at least one band combination; and
 signaling at least one other baseband parameter to the base station, wherein
 the RF capability information indicates RF capability with reference to the at least
 one other baseband parameter.
2. The method of claim 1, wherein the at least one other baseband parameter is
indicated per band.
3. The method of claim 2, wherein support for a baseband parameter of the at least
one other baseband parameter is indicated using an Identifier (ID).
4. The method of claim 1, wherein support for the baseband parameter of the at least
one other baseband parameter is indicated per component carrier (CC).
5. The method of claim 4, wherein the support for the baseband parameter of the at
least one other baseband parameter for a CC is indicated using an Identifier (ID).
6. The method of claim 1, wherein support for a baseband parameter of the at least
one other baseband parameter is indicated per band, and per CC.
7. The method of claim 1, wherein the RF capability information indicates support
for a baseband parameter of the at least one other baseband parameter with reference to a
corresponding identifier (ID) for the other baseband parameter.
8. The method of claim 7, wherein each other baseband parameter indicates support
of band parameters with reference to the corresponding ID.

9. The method of claim 8, wherein each other baseband parameter indicates support for Component Carrier (CC) parameters with reference to the ID.
10. The method of claim 1, wherein the at least one other baseband parameter is comprised in a list of capabilities supported by the UE.
11. The method of claim 10, wherein each set of capabilities supported by the UE has a corresponding other baseband parameter identifier (ID).
12. The method of claim 1, wherein each defined band combination comprises a bandwidth combination set identifier, wherein the RF capability information indicates the RF capability for one of a defined plurality of basebands with reference to the bandwidth combination set identifier.
13. The method of claim 1, wherein the at least one other baseband parameter is common across multiple RF bands.
14. The method of claim 1, wherein each band combination indicates a combination comprising at least one of a numerology, a layer, or a bandwidth.
15. The method of claim 14, wherein the RF capability information indicates whether the numerology, the layer, and the bandwidth is supported for a particular band combination.
16. The method of claim 1, wherein the UE capability information is signaled without an indication of a bandwidth class.
17. The method of claim 1, wherein a plurality of band combinations are defined each band combination comprising at least one of a numerology, a layer and a bandwidth class, wherein the RF capability information indicates RF capability for one of the defined plurality of bandwidth classes.
18. An apparatus for wireless communication at a user equipment (UE), comprising: means for determining at least one UE capability; and

means for signaling UE capability information to a base station, wherein the means for signaling is configured to:

signal Radio Frequency (RF) capability information to the base station with reference to at least one band combination; and

signal at least one other baseband parameter to the base station, wherein the RF capability information indicates RF capability with reference to the at least one other baseband parameter.

19. The apparatus of claim 18, wherein support for a baseband parameter of the at least one other baseband parameter is indicated per band using an Identifier (ID).

20. The apparatus of claim 18, wherein the support for the baseband parameter of the at least one other baseband parameter is indicated per component carrier (CC) and using an Identifier (ID).

21. The apparatus of claim 18, wherein the support for baseband parameter of the at least one other baseband parameter is indicated per band, and per CC.

22. The apparatus of claim 18, wherein the RF capability information indicates the support for the baseband parameter of the at least one other baseband parameter with reference to a corresponding identifier (ID) for the other baseband parameter.

23. The apparatus of claim 22, wherein the support for Component Carrier (CC) parameters is indicated with reference to the ID.

24. The apparatus of claim 18, wherein the at least one other baseband parameter is comprised in a list of capabilities supported by the UE, wherein each set of capabilities supported by the UE has a corresponding other baseband parameter identifier (ID).

25. The apparatus of claim 18, wherein each defined band combination comprises a bandwidth combination set identifier, wherein the RF capability information indicates the RF capability for one of a defined plurality of basebands with reference to the bandwidth combination set identifier.

26. The apparatus of claim 18, wherein the at least one other baseband parameter is common across multiple RF bands.
27. The apparatus of claim 26, wherein each band combination indicates a combination comprising at least one of a numerology, a layer, or a bandwidth.
28. The apparatus of claim 27, wherein the RF capability information indicates whether the numerology, the layer, and the bandwidth is supported for a particular band combination.
29. The apparatus of claim 18, wherein the UE capability information is signaled without an indication of a bandwidth class.
30. The apparatus of claim 18, wherein a plurality of band combinations are defined each band combination comprising at least one of a numerology, a layer and a bandwidth class, and
wherein the RF capability information indicates RF capability for one of the defined plurality of bandwidth classes.
31. An apparatus for wireless communication at a user equipment (UE), comprising:
a memory; and
at least one processor coupled to the memory and configured to:
determine at least one UE capability; and
signal UE capability information to a base station, including
signaling Radio Frequency (RF) capability information to the base station with reference to at least one band combination; and
signaling at least one other baseband parameter to the base station,
wherein the RF capability information indicates RF capability with reference to the at least one other baseband parameter.
32. The apparatus of claim 31, wherein support for a baseband parameter of the at least one other baseband parameter is indicated per band and using an Identifier (ID).

33. The apparatus of claim 31, wherein support for the at least one other baseband parameter is indicated per component carrier (CC) and using an Identifier (ID).
34. The apparatus of claim 31, wherein support for the at least one other baseband parameter is indicated per band, and per CC.
35. The apparatus of claim 31, wherein the RF capability information indicates support for a baseband parameter of the at least one other baseband parameter with reference to a corresponding identifier (ID) for the other baseband parameter.
36. The apparatus of claim 35, wherein the other baseband parameter indicates the support for Component Carrier (CC) parameters with reference to the ID.
37. The apparatus of claim 31, wherein the at least one other baseband parameter is comprised in a list of capabilities supported by the UE, wherein each set of capabilities supported by the UE has a corresponding other baseband parameter identifier (ID).
38. The apparatus of claim 31, wherein each defined band combination comprises a bandwidth combination set identifier, wherein the RF capability information indicates the RF capability for one of a defined plurality of basebands with reference to the bandwidth combination set identifier.
39. The apparatus of claim 31, wherein the at least one other baseband parameter is common across multiple RF bands.
40. The apparatus of claim 39, wherein each band combination indicates a combination comprising at least one of a numerology, a layer, or a bandwidth.
41. The apparatus of claim 40, wherein the RF capability information indicates whether the numerology, the layer, and the bandwidth is supported for a particular band combination.
42. The apparatus of claim 31, wherein the UE capability information is signaled without an indication of a bandwidth class.

43. The apparatus of claim 31, wherein a plurality of band combinations are defined each band combination comprising at least one of a numerology, a layer and a bandwidth class, and

wherein the RF capability information indicates RF capability for one of the defined plurality of bandwidth classes.

44. A computer-readable medium storing computer executable code for wireless communication at a user equipment (UE), the code when executed by a processor cause the processor to:

determine at least one UE capability; and

signal UE capability information to a base station, including

signaling Radio Frequency (RF) capability information to the base station with reference to at least one band combination; and

signaling at least one other baseband parameter to the base station, wherein the RF capability information indicates RF capability with reference to the at least one other baseband parameter.