

CLAIMS

1. A method of wireless communication at a base station, comprising: transmitting an indication to a user equipment (UE) indicating a flexible resource allocation; generating a narrowband data channel including a plurality of resource blocks (RBs); adjusting a Precoding Resource Block Group (PRG) for the narrowband data channel based on the indication, the adjusting the PRG for the narrowband data channel including shifting a position of the plurality of RBs of the narrowband data channel to align a beginning RB of the PRG or a last RB of the PRG with a wideband Resource Block Group (RBG) boundary; and transmitting the narrowband data channel to the UE based at least on adjusting the PRG.
2. The method of claim 1, wherein the plurality of RBs are associated with a narrowband.
3. The method of claim 1, wherein the PRG for the narrowband data channel comprises one or more consecutive RBs.
4. The method of claim 1, wherein adjusting the PRG for the narrowband data channel includes aligning the beginning RB of the PRG with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting the position of the plurality of RBs of the narrowband data channel.
5. The method of claim 1, wherein adjusting the PRG for the narrowband data channel includes aligning the last RB of the PRG with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting the position of the plurality of RBs of the narrowband data channel.
6. The method of claim 1, wherein the indication is transmitted in a downlink control information (DCI).
7. The method of claim 1, further comprising: dynamically switching to an additional type of resource allocation; and transmitting a second indication to the UE indicating the additional type of resource allocation.
8. The method of claim 1, further comprising: configuring the UE for the flexible resource allocation, wherein the PRG for the narrowband data channel is adjusted based on the UE being configured for the flexible resource allocation.
9. The method of claim 8, wherein the UE is configured for the flexible resource allocation using radio resource control (RRC) signaling.
10. The method of claim 1, wherein a size of the PRG is fixed.
11. An apparatus for wireless communication at a base station, comprising: means for transmitting an indication to a user equipment (UE) indicating a flexible resource allocation; means for generating a narrowband data channel including a plurality of resource blocks (RBs); means for adjusting a Precoding Resource Block Group (PRG) for the narrowband data channel based on the indication, the means for adjusting the PRG for the narrowband data channel being further configured to shift a position of the plurality of RBs of the narrowband data channel to align a beginning RB of the PRG or a last RB of the PRG with a

wideband Resource Block Group (RBG) boundary; and means for transmitting the narrowband data channel to the UE based at least on adjusting the PRG.

12. The apparatus of claim 11, wherein the plurality of RBs are associated with a narrowband.

13. The apparatus of claim 11, wherein the PRG for the narrowband data channel comprises one or more consecutive RBs.

14. The apparatus of claim 11, wherein means for adjusting the PRG for the narrowband data channel is further configured to align the beginning RB of the PRG with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.

15. The apparatus of claim 11, wherein means for adjusting the PRG for the narrowband data channel is further configured to align the last RB of the PRG with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.

16. The apparatus of claim 11, wherein the indication is transmitted in a downlink control information (DCI).

17. The apparatus of claim 11, further comprising: means for dynamically switching to an additional type of resource allocation; and means for transmitting a second indication to the UE indicating the additional type of resource allocation.

18. The apparatus of claim 11, further comprising: means for configuring the UE for the flexible resource allocation, wherein the PRG for the narrowband data channel is adjusted based on the UE being configured for the flexible resource allocation.

19. The apparatus of claim 18, wherein the UE is configured for the flexible resource allocation using radio resource control (RRC) signaling.

20. The apparatus of claim 11, wherein a size of the PRG is fixed.

21. An apparatus for wireless communication at a base station, comprising: memory; and at least one processor coupled to the memory and configured to: transmit an indication to a user equipment (UE) indicating a flexible resource allocation; generate a narrowband data channel including a plurality of resource blocks (RBs); adjust a Precoding Resource Block Group (PRG) for the narrowband data channel based on the indication, wherein to adjust the PRG for the narrowband data channel, the at least one processor is further configured to shift a position of the plurality of RBs of the narrowband data channel to align a beginning RB of the PRG or a last RB of the PRG with a wideband Resource Block Group (RBG) boundary; and transmit the narrowband data channel to the UE based at least on adjusting the PRG.

22. The apparatus of claim 21, wherein the plurality of RBs are associated with a narrowband.

23. The apparatus of claim 21, wherein the PRG for the narrowband data channel comprises one or more consecutive RBs.

24. The apparatus of claim 21, wherein to adjust the PRG for the narrowband data channel, the at least one processor is configured to align the beginning RB of the PRG with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.
25. The apparatus of claim 21, wherein to adjust the PRG for the narrowband data channel, the at least one processor is configured to align the last RB of the PRG with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.
26. The apparatus of claim 21, wherein to transmit the indication, the at least one processor is configured to transmit the indication in downlink control information (DCI).
27. The apparatus of claim 21, wherein the at least one processor is further configured to: dynamically switch to an additional type of resource allocation; and transmit a second indication to the UE indicating the additional type of resource allocation.
28. The apparatus of claim 21, wherein the at least one processor is further configured to: configure the UE for the flexible resource allocation, wherein the PRG for the narrowband data channel is adjusted based on the UE being configured for the flexible resource allocation.
29. The apparatus of claim 28, wherein the UE is configured for the flexible resource allocation using radio resource control (RRC) signaling.
30. The apparatus of claim 21, wherein a size of the PRG is fixed.
31. A method of wireless communication at a User Equipment (UE), comprising: receiving an indication of a flexible resource allocation from a base station; and receiving a narrowband data channel from the base station including a plurality of resource blocks (RBs), and wherein a beginning RB or a last RB of a Precoding Resource Block Group (PRG) for the narrowband data channel is shifted to with a wideband Resource Block Group (RBG) boundary.
32. The method of claim 31, wherein the plurality of RBs are associated with a narrowband.
33. The method of claim 31, wherein the PRG for the narrowband data channel comprises one or more consecutive RBs.
34. The method of claim 31, wherein the beginning RB of the PRG for the narrowband data channel is adjusted to be aligned with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.
35. The method of claim 31, wherein the last RB of the PRG for the narrowband data channel is adjusted to be aligned with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.
36. The method of claim 31, wherein the indication is received in a downlink control information (DCI).

37. The method of claim 31, further comprising: receiving a second indication from the base station indicating a switch of a type of resource allocation to an additional resource allocation type.

38. The method of claim 31, wherein the UE is configured for the flexible resource allocation, and wherein the PRG for the narrowband data channel is adjusted based on the UE being configured for the flexible resource allocation.

39. The method of claim 38, wherein the UE is configured for the flexible resource allocation using radio resource control (RRC) signaling.

40. The method of claim 31, wherein a size of the PRG is fixed.

41. An apparatus for wireless communication at a User Equipment (UE), comprising: means for receiving an indication of a flexible resource allocation from a base station; and means for receiving a narrowband data channel from the base station including a plurality of resource blocks (RBs), and wherein a beginning RB or a last RB of a Precoding Resource Block Group (PRG) for the narrowband data channel is aligned with a wideband Resource Block Group (RBG) boundary.

42. The apparatus of claim 41, wherein the plurality of RBs are associated with a narrowband.

43. The apparatus of claim 41, wherein the PRG for the narrowband data channel comprises one or more consecutive RBs.

44. The apparatus of claim 41, wherein the beginning RB of the PRG for the narrowband data channel is adjusted to be aligned with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.

45. The apparatus of claim 41, wherein the last RB of the PRG for the narrowband data channel is adjusted to be aligned with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.

46. The apparatus of claim 41, wherein the indication is received in a downlink control information (DCI).

47. The apparatus of claim 41, further comprising: means for receiving a second indication from the base station indicating a switch of a type of resource allocation to an additional resource allocation type.

48. The apparatus of claim 41, wherein the UE is configured for the flexible resource allocation, and wherein the PRG for the narrowband data channel is adjusted based on the UE being configured for the flexible resource allocation.

49. The apparatus of claim 48, wherein the UE is configured for the flexible resource allocation using radio resource control (RRC) signaling.

50. The apparatus of claim 41, wherein a size of the PRG is fixed.

51. An apparatus for wireless communication at a User Equipment (UE), comprising: memory; and at least one processor coupled to the memory and configured to: receive an indication of a flexible resource allocation from a base station; and receive a narrowband data channel from the base station including a plurality of resource blocks (RBs), and wherein a beginning RB or a last RB of a Precoding Resource Block Group (PRG) for the narrowband data channel is aligned with a wideband Resource Block Group (RBG) boundary.
52. The apparatus of claim 51, wherein the plurality of RBs are associated with a narrowband.
53. The apparatus of claim 51, wherein the PRG for the narrowband data channel comprises one or more consecutive RBs.
54. The apparatus of claim 51, wherein the beginning RB of the PRG for the narrowband data channel is adjusted to be aligned with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.
55. The apparatus of claim 51, wherein the last RB of the PRG for the narrowband data channel is adjusted to be aligned with the wideband RBG boundary, and wherein the PRG is shifted based on the shifting of the plurality of RBs of the narrowband data channel.
56. The apparatus of claim 51, wherein to receive the indication, the at least one processor is configured to receive the indication in downlink control information (DCI).
57. The apparatus of claim 51, wherein the at least one processor is further configured to: receive a second indication from the base station indicating a switch of a type of resource allocation to an additional resource allocation type.
58. The apparatus of claim 51, wherein the UE is configured for the flexible resource allocation, and wherein the PRG for the narrowband data channel is adjusted based on the UE being configured for the flexible resource allocation.
59. The apparatus of claim 58, wherein the UE is configured for the flexible resource allocation using radio resource control (RRC) signaling.
60. The apparatus of claim 51, wherein a size of the PRG is fixed.