

CLAIMS

1. A method of wireless communication performed by a base station, comprising:
receiving, from a network entity, an indication that a user equipment (UE) is operating in one of a discontinuous reception (DRX) mode or an extended DRX (eDRX) mode; and
configuring, for the UE, a wake up signal (WUS) mode based on the indication that the UE is operating in the DRX mode or the eDRX mode, the WUS mode being configured using a first WUS configuration indicating a mapping between a WUS and a paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode and using a second WUS configuration that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS based on the indication indicating that the UE is operating in the eDRX mode.
2. The method of claim 1, wherein the WUS mode includes the WUS mapping to the paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode.
3. The method of claim 2, wherein the indication indicates that the UE is operating in the DRX mode, the method further comprising:
configuring, for the UE, a DRX cycle that includes the WUS and the paging occasion associated with the WUS bounded within the DRX cycle.
4. The method of claim 3, wherein the UE comprises a narrow band Internet-of-Things (NB-IoT) UE, the DRX cycle configured by the base station is cell specific, and the method further comprising transmitting, to the NB-IoT UE, within the DRX cycle, the WUS at the paging occasion associated with the WUS.
5. The method of claim 3, wherein the UE comprises a machine type communication (MTC) UE, the DRX cycle is specific to the MTC UE, and the method further comprising transmitting, to the MTC UE, within the DRX cycle, the WUS at the paging occasion associated with the WUS.

6. The method of claim 1, wherein the WUS mode includes the WUS mapping to the specified number of multiple paging occasions based on the indication indicating that the UE is operating in the eDRX mode.
7. The method of claim 6, wherein the mapping between the specified number of multiple paging occasions and the WUS is cell specific.
8. The method of claim 7, further comprising determining the specified number of multiple paging occasions based on one or more of a pre-defined look-up table entry indicating a paging transmission window (PTW) duration, a duration of a DRX cycle, or a duration of an eDRX cycle.
9. The method of claim 7, further comprising transmitting, in a broadcast transmission to the UE, system information indicating the specified number of multiple paging occasions.
10. An apparatus for wireless communication at a base station, comprising:
 - means for receiving, from a network entity, an indication that a user equipment (UE) is operating in one of a discontinuous reception (DRX) mode or an extended DRX (eDRX) mode; and
 - means for configuring, for the UE, a wake up signal (WUS) mode based on the indication that the UE is operating in the DRX mode or the eDRX mode, the WUS mode being configured using a first WUS configuration indicating a mapping between a WUS and a paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode and using a second WUS configuration that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS based on the indication indicating that the UE is operating in the eDRX mode.
11. The apparatus of claim 10, wherein the WUS mode includes the WUS mapping to the paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode.
12. The apparatus of claim 11, further comprising:

means for configuring, for the UE, a DRX cycle that includes the WUS and the paging occasion associated with the WUS bounded within the DRX cycle, wherein the indication indicates that the UE is operating in the DRX mode.

13. The apparatus of claim 12, wherein the means for configuring the DRX cycle is configured to be cell specific for a narrow band Internet-of-Things (NB-IoT) UE.

14. The apparatus of claim 12, wherein the means for configuring the DRX cycle is configured to be UE specific for a machine type communication (MTC) UE.

15. The apparatus of claim 10, wherein the WUS mode includes the WUS mapping to the specified number of multiple paging occasions based on the indication indicating that the UE is operating in the eDRX mode.

16. The apparatus of claim 15, wherein the mapping between the specified number of multiple paging occasions and the WUS is cell specific.

17. The apparatus of claim 15, further comprising means for transmitting, in a broadcast transmission to the UE, a system information block indicating the specified number of multiple paging occasions.

18. An apparatus for wireless communication at a base station, comprising:

a memory; and

at least one processor coupled to the memory and configured to:

receive, from a network entity, an indication that a user equipment (UE) is operating in one of a discontinuous reception (DRX) mode or an extended DRX (eDRX) mode; and

configure, for the UE, a wake up signal (WUS) mode based on the indication that the UE is operating in the DRX mode or the eDRX mode, the WUS mode being configured using a first WUS configuration indicating a mapping between a WUS and a paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode and using a second WUS configuration that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions

that map to the WUS based on the indication indicating that the UE is operating in the eDRX mode.

19. The apparatus of claim 18, wherein the WUS mode includes the WUS mapping to the paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode.

20. The apparatus of claim 18, wherein the at least one processor is further configured to:

Configure, for the UE, a DRX cycle that includes the WUS and the paging occasion associated with the WUS bounded within the DRX cycle, wherein the indication indicates that the UE is operating in the DRX mode.

21. The apparatus of claim 18, wherein the WUS mode includes the WUS mapping to the specified number of multiple paging occasions based on the indication indicating that the UE is operating in the eDRX mode.

22. The apparatus of claim 21, wherein the mapping between the specified number of multiple paging occasions and the WUS is cell specific.

23. A non-transitory computer-readable medium storing computer executable code for wireless communication at a base station (BS), comprising code, which when executed by at least one processor, causes the BS to:

receive, from a network entity, an indication that a user equipment (UE) is operating in one of a discontinuous reception (DRX) mode or an extended DRX (eDRX) mode; and

configure, for the UE, a wake up signal (WUS) mode based on the indication that the UE is operating in the DRX mode or the eDRX mode, the WUS mode being configured using a first WUS configuration indicating a mapping between a WUS and a paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode and using a second WUS configuration that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS based on the indication indicating that the UE is operating in the eDRX mode.

24. The non-transitory computer-readable medium of claim 23, wherein the WUS mode includes the WUS mapping to the paging occasion associated with the WUS based on the indication indicating that the UE is operating in the DRX mode.

25. The non-transitory computer-readable medium of claim 24, further comprising code, which when executed by the at least one processor, causes the BS to:

configure, for the UE, a DRX cycle that includes the WUS and the paging occasion associated with the WUS bounded within the DRX cycle, wherein the indication indicates that the UE is operating in the DRX mode.

26. The non-transitory computer-readable medium of claim 23, wherein the WUS mode includes the WUS mapping to the specified number of multiple paging occasions based on the indication indicating that the UE is operating in the eDRX mode.

27. The non-transitory computer-readable medium of claim 26, wherein the mapping between the specified number of multiple paging occasions and the WUS is cell specific.

28. A method of wireless communication performed by a User Equipment (UE), comprising:
receiving, from a base station, a first wake up signal (WUS) configuration for a discontinuous reception (DRX) mode indicating a mapping between a WUS and a paging occasion associated with the WUS and a second WUS configuration for an extended DRX (eDRX) mode that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS; and

listening for the WUS prior to the paging occasion based on the first WUS configuration or the second WUS configuration.

29. The method of claim 28, further comprising receiving the WUS at the paging occasion associated with the WUS based on the UE operating in the DRX mode.

30. The method of claim 29, wherein the UE is operating in a DRX mode, the method further comprising:

receiving, from the base station, a DRX cycle configuration that includes the WUS and the paging occasion associated with the WUS bounded within a DRX cycle.

31. The method of claim 30, wherein the UE comprises a narrow band Internet-of-Things (NB-IoT) UE, the DRX cycle configured by the base station is cell specific, and the method further comprising determining that the WUS is scheduled to be transmitted at the paging occasion associated with the WUS within the DRX cycle.
32. The method of claim 30, wherein the UE comprises a machine type communication (MTC) UE, the DRX cycle is specific to the MTC UE, and the method further comprising determining that the WUS is scheduled to be transmitted at the paging occasion associated with the WUS within the DRX cycle.
33. The method of claim 28, further comprising receiving the WUS at one or more of the specified number of multiple paging occasions based on the UE operating in the eDRX mode.
34. The method of claim 33, wherein the mapping between the specified number of multiple paging occasions and the WUS is cell specific.
35. The method of claim 34, wherein the mapping of the specified number of multiple paging occasions is based on one or more of a pre-defined look-up table entry indicating a paging transmission window (PTW) duration, a duration of a DRX cycle, or a duration of an eDRX cycle.
36. The method of claim 34, further comprising:
receiving, in a broadcast transmission to the UE, system information comprising an indication of the specified number of multiple paging occasions.
37. An apparatus for wireless communication at a User Equipment (UE), comprising:
means for receiving, from a base station, a first wake up signal (WUS) configuration for a discontinuous reception (DRX) mode indicating a mapping between a WUS and a paging occasion associated with the WUS and a second WUS configuration for an extended DRX (eDRX) mode that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS; and
means for listening for the WUS prior to the paging occasion based on the first WUS configuration or the second WUS configuration.

38. The apparatus of claim 37, further comprising:
means for receiving a DRX cycle configuration that includes the WUS and the paging occasion associated with the WUS bounded within a DRX cycle, wherein the UE is operating in the DRX mode.
39. The apparatus of claim 37, further comprising: means for receiving the WUS at one or more of the specified number of multiple paging occasions based on the UE operating in the eDRX mode.
40. The apparatus of claim 39, further comprising:
means for receiving, in a broadcast transmission to the UE, system information comprising an indication of the specified number of multiple paging occasions.
41. 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:
receive, from a base station, a first wake up signal (WUS) configuration for a discontinuous reception (DRX) mode indicating a mapping between a WUS and a paging occasion associated with the WUS and a second WUS configuration for an extended DRX (eDRX) mode that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS; and
listen for the WUS prior to the paging occasion based on the first WUS configuration or the second WUS configuration.
42. The apparatus of claim 41, wherein the at least one processor is further configured to receive a DRX cycle configuration that includes the WUS and the paging occasion associated with the WUS bounded within a DRX cycle, wherein the UE is operating in the DRX mode.
43. The apparatus of claim 41, wherein the at least one processor is further configured to receive the WUS at one or more of the specified number of multiple paging occasions based on the UE operating in the eDRX mode.

44. The apparatus of claim 43, wherein the at least one processor is further configured to receive, in a broadcast transmission to the UE, system information comprising an indication of the specified number of multiple paging occasions.

45. A non-transitory computer-readable medium storing computer executable code for wireless communication at a User Equipment (UE), comprising code to:

receive, from a base station, a first wake up signal (WUS) configuration for a discontinuous reception (DRX) mode indicating a mapping between a WUS and a paging occasion associated with the WUS and a second WUS configuration for an extended DRX (eDRX) mode that includes a pre-defined look-up table entry indicating a specified number of multiple paging occasions that map to the WUS; and

listen for the WUS prior to the paging occasion based on the first WUS configuration or the second WUS configuration.

46. The non-transitory computer-readable medium of claim 45, further comprising code to receive a DRX cycle configuration that includes the WUS and the paging occasion associated with the WUS bounded within a DRX cycle, wherein the UE is operating in the DRX mode.

47. The non-transitory computer-readable medium of claim 45, further comprising code to receive the WUS at one or more of the specified number of multiple paging occasions based on the UE operating in the eDRX mode.

48. The non-transitory computer-readable medium of claim 47, further comprising code to receive, in a broadcast transmission to the UE, system information comprising an indication of the specified number of multiple paging occasions.