Claims

1. A method for information configuration, performed by a terminal, wherein the terminal is a reduced-capability user equipment (Redcap UE), the method comprising:

receiving configuration information sent by a network device for configuring a power-saving signal, wherein the power-saving signal is configured for the terminal to monitor a paging message in at least one of an idle state or an inactive state;

determining location information of the power-saving signal based on the configuration information, wherein the configuration information comprises at least one offset value between the power-saving signal and a paging occasion (PO), and the at least one offset value is shared by the Redcap UE and an enhanced mobile broadband (eMMB) UE; and

monitoring the paging message based on the location information of the power-saving signal.

2. The method according to claim 1, further comprising:

reporting auxiliary information to the network device, wherein the auxiliary information is configured for the network device to determine the configuration information.

3. The method according to claim 2, wherein the auxiliary information comprises at least one of:

information indicating whether the Redcap UE or the eMBB UE supports using the power-saving signal to monitor the paging message under discontinuous reception (DRX) or extended discontinuous reception (eDRX); or

information indicating a minimum offset value between a power-saving signal and the PO supported by the Redcap UE or the eMBB UE.

4. The method according to claim 3, wherein the auxiliary information further indicates at least one of:

a first minimum offset value between the power-saving signal and the PO supported by the Redcap UE; or

a second minimum offset value between the power-saving signal and the PO supported by the eMBB UE,

wherein the first minimum offset value is greater than or equal to the second minimum offset value.

5. The method according to any one of claims 1 to 4, wherein the configuration information comprises:

an offset value of the at least one offset value between the power-saving signal and the PO, wherein the offset value is configured for the terminal to determine location information of the power-saving signal; and

the offset value is a value corresponding to a number of synchronization signal block (SSB)

periods; or the offset value is a value of a duration unit.

6. The method according to claim 1, wherein determining the location information of the power-saving signal based on the configuration information comprises:

determining the location information of the power-saving signal based on a minimum offset value supported by the Redcap UE or the eMBB UE and an offset value configured in the configuration information.

7. A method for information configuration, performed by a base station, the method comprising:

sending configuration information for configuring a power-saving signal to a terminal, wherein the power-saving signal is configured for the terminal to monitor a paging message in at least one of an idle state or an inactive state;

wherein the terminal is a reduced-capability user equipment (Redcap UE); the configuration information comprises at least one offset value between the power-saving signal and a paging occasion (PO), and the at least one offset value is shared by the Redcap UE and an enhanced mobile broadband (eMBB) UE; and the configuration information is used by the terminal to determine location information of the power-saving signal and monitor the paging message based on the location information of the power-saving signal.

8. The method according to claim 7, further comprising:

receiving auxiliary information reported by the Redcap UE or eMBB UE;

wherein sending the configuration information for configuring the power-saving signal to the Redcap UE or the eMBB UE comprises:

sending the configuration information to the Redcap UE or the eMBB UE based on the auxiliary information.

9. The method according to claim 8, wherein the auxiliary information comprises at least one of:

information indicating whether the Redcap UE or the eMBB UE supports using the power-saving signal to monitor the paging message under discontinuous reception (DRX) or extended discontinuous reception (eDRX); or

information indicating a minimum offset value between a power-saving signal and the PO supported by the Redcap UE or the eMBB UE.

10. The method according to claim 9, wherein the auxiliary information further indicates at least one of:

a first minimum offset value between the power-saving signal and the PO supported by the Redcap UE; and/or

a second minimum offset value between the power-saving signal and the PO supported by

the eMBB UE,

wherein the first minimum offset value is greater than or equal to the second minimum offset value.

11. The method according to claim 8, further comprising:

reporting the auxiliary information to a core network by using a terminal release message; or

reporting the auxiliary information to a core network by using a UE capability information notification message, wherein the core network is configured to carry the auxiliary information in a paging message and send the paging message to a radio access network (RAN).

12. The method according to any one of claims 7 to 11, wherein the configuration information comprises:

an offset value of the at least one offset value between the power-saving signal and the PO, wherein the offset value is configured for the terminal to determine location information of the power-saving signal; and

the offset value is a value corresponding to a number of synchronization signal block (SSB) periods; or the offset value is a value of a duration unit.

13. The method according to any one of claims 7 to 11, wherein sending the configuration information for configuring power-saving signal to the Redcap UE or the eMBB UE comprises:

sending to the Redcap UE or the eMBB UE, an offset value between the power-saving signal and the PO and corresponding to a type of the terminal,

wherein sending to the Redcap UE or the eMBB UE, the offset value between the power-saving signal and the PO and corresponding to the type of the terminal comprises:

sending to the Redcap UE, an offset value in a value range of a same configuration information multiplexed with the eMBB UE; or

sending to the Redcap UE, an offset value in a dedicated configuration information, wherein the dedicated configuration information is different from configuration information of the eMBB UE.

14. A communication device, comprising:

a processor; and

a memory for storing executable instructions able to be running on the processor,

wherein when the instructions are executed by the processor, the method for information configuration according to any one of claims 1 to 6 or claims 7 to 13 are implemented.

15. A non-transitory computer-readable storage medium having instructions stored thereon that, when executed by a processor of a communication device, the method for information configuration according to any one of claims 1 to 6 or claims 7 to 13 are implemented.