CLAIMS

WHAT IS CLAIMED IS:

1. A method for determining a paging monitoring parameter, performed by a user equipment (UE), comprising:

determining a paging monitoring parameter of an inactive-state UE according to a configuration situation of an inactive-state extended Discontinuous Reception (eDRX) parameter and an idle-state eDRX parameter;

wherein determining the paging monitoring parameter of the inactive-state UE according to the configuration situation of the inactive-state eDRX parameter and the idle-state eDRX parameter comprises:

in response to the idle-state eDRX parameter being configured and the inactive-state eDRX parameter being configured, determining the paging monitoring parameter of the inactive-state UE according to a first PTW included in the idle-state eDRX parameter and a second PTW included in the inactive-state eDRX parameter;

wherein determining the paging monitoring parameter of the inactive-state UE according to the first PTW included in the idle-state eDRX parameter and the second PTW included in the inactive-state eDRX parameter comprises:

in response to there being a time-domain overlap between the second PTW in the inactive-state eDRX cycle and the first PTW in the idle-state eDRX cycle, determining a paging monitoring configuration for the inactive-state UE to perform monitoring of the CN paging within a remaining PTW window outside of the time-domain overlap between the inactive-state eDRX cycle and the idle-state eDRX cycle according to the min {the default paging cycle, the UE-specific cycle}.

2. The method according to claim 1, wherein determining the paging monitoring parameter of the inactive-state UE according to the configuration situation of the inactive-state eDRX parameter and the idle-state eDRX parameter further comprises at least one of:

in response to the idle-state eDRX parameter being configured and no inactive-state eDRX parameter being configured, determining the paging monitoring parameter of the inactive-state UE according to the idle-state eDRX parameter; or

in response to the idle-state eDRX parameter being configured and the inactive-state eDRX parameter not including a paging time window (PTW), determining the paging monitoring parameter of the inactive-state UE according to the idle-state eDRX parameter.

3. The method according to claim 1, wherein determining the paging monitoring parameter of the inactive-state UE according to the first PTW included in the idle-state eDRX parameter and the second PTW included in the inactive-state eDRX parameter further comprises:

determining the paging monitoring parameter of the inactive-state UE according to the idle-state eDRX parameter in response to the first PTW being less than the second PTW.

4. The method according to claim 1 or 3, wherein the inactive-state eDRX parameter comprises an inactive-state eDRX cycle, the idle-state eDRX parameter comprises an idle-state eDRX cycle; and

determining the paging monitoring parameter of the inactive-state UE according to the first PTW included in the idle-state eDRX parameter and the second PTW included in the inactive-state eDRX parameter comprises at least one of:

in response to the first PTW being less than the second PTW and no time-domain overlap existing between the first PTW and the second PTW, determining a paging monitoring parameter for the inactive-state UE to monitor a radio access network (RAN) paging within the second PTW of the inactive-state eDRX cycle;

in response to the first PTW being less than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining a paging monitoring parameter for the inactive-state UE to monitor a core network (CN) paging and a RAN paging within the first PTW; or

in response to the first PTW being less than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining a paging monitoring parameter for the inactive-state UE to stop monitoring the paging within the first PTW when a CN paging or a RAN paging is monitored once within the first PTW.

5. The method according to claim 1 or 3, wherein the inactive-state eDRX parameter comprises an inactive-state eDRX cycle, the idle-state eDRX parameter comprises an idle-state eDRX cycle; and

determining the paging monitoring parameter of the inactive-state UE according to the first PTW included in the idle-state eDRX parameter and the second PTW included in the inactive-state eDRX parameter comprises:

in response to the first PTW being greater than the second PTW and no time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to monitor a RAN paging within the second PTW of the inactive-state eDRX cycle.

6. The method according to claim 1 or 3, wherein the inactive-state eDRX parameter comprises an inactive-state eDRX cycle, the idle-state eDRX parameter comprises an idle-state eDRX cycle; and

determining the paging monitoring parameter of the inactive-state UE according to the first PTW included in the idle-state eDRX parameter and the second PTW included in the inactive-state eDRX parameter further comprises at least one of:

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to monitor a CN paging and a RAN paging within the second PTW;

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to stop paging monitoring when a CN paging is monitored once or a RAN paging is monitored once within the second PTW;

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to stop paging monitoring when a CN paging is monitored once or a RAN paging is monitored once within the first PTW; or

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to stop paging monitoring when a CN paging is monitored once within a part of the first PTW not overlapping with the second PTW.

7. The method according to any of claims 1 to 6, wherein the idle-state eDRX parameter

comprises an idle-state eDRX cycle and the first PTW, and the inactive-state eDRX parameter comprises an inactive-state eDRX cycle and the second PTW; and when the idle-state eDRX cycle overlaps with the inactive-state eDXR cycle in a time domain, a time-domain starting point position of the first PTW and a time-domain starting point position of the second PTW are the same.

8. An apparatus for determining a paging monitoring parameter, comprising:

a determining module, configured to determine the paging monitoring parameter of an inactive-state UE according to a configuration situation of an inactive-state extended Discontinuous Reception (eDRX) parameter and an idle-state eDRX parameter;

wherein the determining module is configured to perform:

in response to the idle-state eDRX parameter being configured and the inactive-state eDRX parameter being configured, determining the paging monitoring parameter of the inactive-state UE according to a first PTW included in the idle-state eDRX parameter and a second PTW included in the inactive-state eDRX parameter;

wherein when determines the paging monitoring parameter of the inactive-state UE according to a first PTW included in the idle-state eDRX parameter and a second PTW included in the inactive-state eDRX parameter, the determining module is configured to perform:

in response to there being a time-domain overlap between the second PTW in the inactive-state eDRX cycle and the first PTW in the idle-state eDRX cycle, determining a paging monitoring configuration for the inactive-state UE to perform monitoring of the CN paging within a remaining PTW window outside of the time-domain overlap between the inactive-state eDRX cycle and the idle-state eDRX cycle according to the min {the default paging cycle, the UE-specific cycle}.

9. The apparatus according to claim 8, wherein the determining module is configured to further perform at least one of:

in response to the idle-state eDRX parameter being configured and no inactive-state eDRX parameter being configured, determining the paging monitoring parameter of the inactive-state UE according to the idle-state eDRX parameter; or

in response to the idle-state eDRX parameter being configured and the inactive-state

eDRX parameter not including a paging time window (PTW), determining the paging monitoring parameter of the inactive-state UE according to the idle-state eDRX parameter.

10. The apparatus according to claim 8, wherein the determining module is configured to:

determine the paging monitoring parameter of the inactive-state UE according to the idle-state eDRX parameter in response to the first PTW being less than the second PTW.

11. The apparatus according to claim 8 or 10, wherein the inactive-state eDRX parameter comprises an inactive-state eDRX cycle, the idle-state eDRX parameter comprises an idle-state eDRX cycle; and

the determining module is configured to perform at least one of:

in response to the first PTW being less than the second PTW and no time-domain overlap existing between the first PTW and the second PTW, determining a paging monitoring parameter for the inactive-state UE to monitor a radio access network (RAN) paging within the second PTW of the inactive-state eDRX cycle;

in response to the first PTW being less than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining a paging monitoring parameter for the inactive-state UE to monitor a core network (CN) paging and a RAN paging within the first PTW; or

in response to the first PTW being less than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining a paging monitoring parameter for the inactive-state UE to stop monitoring the paging within the first PTW when a CN paging or a RAN paging is monitored once within the first PTW.

12. The apparatus according to claim 8 or 10, wherein the inactive-state eDRX parameter comprises an inactive-state eDRX cycle, the idle-state eDRX parameter comprises an idle-state eDRX cycle; and

the determining module is configured to, in response to the first PTW being greater than the second PTW and no time-domain overlap existing between the first PTW and the second PTW, determine the paging monitoring parameter for the inactive-state UE to monitor a RAN paging within the second PTW of the inactive-state eDRX cycle.

13. The apparatus according to claim 8 or 10, wherein the inactive-state eDRX parameter

comprises an inactive-state eDRX cycle, the idle-state eDRX parameter comprises an idle-state eDRX cycle; and

the determining module is configured to perform at least one of:

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to monitor a CN paging and a RAN paging within the second PTW;

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to stop paging monitoring when a CN paging is monitored once or a RAN paging is monitored once within the second PTW;

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to stop paging monitoring when a CN paging is monitored once or a RAN paging is monitored once within the first PTW; or

in response to the first PTW being greater than the second PTW and a time-domain overlap existing between the first PTW and the second PTW, determining the paging monitoring parameter for the inactive-state UE to stop paging monitoring when a CN paging is monitored once within a part of the first PTW not overlapping with the second PTW.

14. The apparatus according to any of claims 8 to 13, wherein the idle-state eDRX parameter comprises an idle-state eDRX cycle and the first PTW, and the inactive-state eDRX parameter comprises an inactive-state eDRX cycle and the second PTW; and when the idle-state eDRX cycle overlaps with the inactive-state eDXR cycle in a time domain, a time-domain starting point position of the first PTW and a time-domain starting point position of the second PTW are the same.

15. A communication device, comprising: a processor, a transceiver, a memory, and an executable program stored on the memory and executable by the processor, wherein, when the processor executes the executable program, the processor performs the method for determining a paging monitoring parameter according to any of claims 1 to 7.

16. A computer storage medium having an executable program stored thereon that, when

executed by a processor, the method for determining a paging monitoring parameter according to any of claims 1 to 7 is performed.