CLAIMS

1. A method for determining a paging cycle, comprising:

for a terminal device in a radio resource control inactive (RRC_INACTIVE) state, in response to that the terminal device does not use at least one of a paging time window (PTW) or a paging hyperframe (PH) for monitoring paging under a configuration of an extended discontinuous reception (eDRX) cycle, determining, by the terminal device, a cycle of monitoring paging according to a first cycle parameter;

wherein the first cycle parameter comprises at least one of a core network (CN) extended discontinuous reception (eDRX) cycle, a radio access network (RAN) eDRX cycle, or an RAN DRX cycle,

wherein determining, by the terminal device, the cycle of monitoring paging according to the first cycle parameter comprises:

in a case that the terminal device supports configuration of the CN eDRX cycle and does not support configuration of the RAN eDRX cycle, determining, by the terminal device, that the cycle of monitoring paging is the shortest one of the CN eDRX cycle and an RAN paging cycle (ran-PagingCycle).

2. The method of claim 1, wherein in a case that a cell default paging cycle (defaultPagingCycle) indicated by a system message is not considered, determining, by the terminal device, the cycle of monitoring paging according to the first cycle parameter comprises:

in response to that an RAN configures the ran-PagingCycle, determining, by the terminal device, that the cycle of the monitoring paging is the shortest one of the CN eDRX cycle and the ran-PagingCycle;

in response to that the RAN does not configure the ran-PagingCycle, determining, by the terminal device, that the cycle of the monitoring paging is the CN eDRX cycle.

3. The method of any one of claims 1 to 2, further comprising:

receiving, by the terminal device, the first cycle parameter configured by a network device.

4. The method of any one of claims 1 to 3, further comprising:

calculating, by the terminal device, a corresponding sub-frame paging occasion (PO) according to the DRX cycle of the monitoring paging and an identity of the terminal device.

5. A terminal device, comprising:

a processing module, configured to: for a terminal device in a radio resource control inactive (RRC_INACTIVE) state, in response to that the terminal device does not use at least one of a paging time window (PTW) or a paging hyperframe (PH) for monitoring paging under a configuration of an extended discontinuous reception (eDRX) cycle, determine a cycle of monitoring paging according to a first cycle parameter;

wherein the first cycle parameter comprises at least one of a core network (CN) extended discontinuous reception (eDRX) cycle, a radio access network (RAN) eDRX cycle, or an RAN DRX cycle,

wherein the processing module is specifically configured to:

in a case that the terminal device supports configuration of the CN eDRX cycle and does not support configuration of the RAN eDRX cycle, determine that the cycle of monitoring paging is the shortest one of the CN eDRX cycle and a RAN paging cycle (ran-PagingCycle).

6. The terminal device of claim 5, wherein in a case that a cell default paging cycle (defaultPagingCycle) indicated by a system message is not considered, the processing module is specifically configured to:

in response to that an RAN configures the ran-PagingCycle, determine that the cycle of the monitoring paging is the shortest one of the CN eDRX cycle and the ran-PagingCycle;

in response to that the RAN does not configure the ran-PagingCycle, determine that the cycle of the monitoring paging is the CN eDRX cycle.

7. The terminal device of claim 5 or 6, further comprising:

a transceiver module, configured to receive the first cycle parameter configured by a network device.

8. The terminal device of any one of claims 5 to 7, wherein

the processing module is further configured to calculate a corresponding sub-frame paging occasion (PO) according to the DRX cycle of the monitoring paging and an identity of the terminal device.