CLAIMS

1. A method for information processing, comprising:

receiving, by a high-layer function entity, a first preset amount of beam recovery failure indication information and

starting a first timer on the basis of the first preset amount of beam recovery failure indication information, the first preset amount being one or at least two.

2. The method of claim 1, further comprising:

determining, by the high-layer function entity, a radio link state on the basis of whether indication information is received or not before the first timer times out,

wherein the indication information comprises at least one of following information: In Sync (IS) indication information, beam recovery success indication information, beam recovery failure indication information, or Out of Sync (OoS) indication information.

3. The method of claim 2, before determining, by the high-layer function entity, the radio link state on the basis of whether the indication information is received or not before the first timer times out, the method further comprising:

starting, by the high-layer function entity, a second timer on the basis of OoS indication information from a physical-layer function entity, the OoS indication information being used to indicate that a terminal is unable to be synchronized with a network; and

determining whether the first timer times out earlier than the second timer or not.

4. The method of claim 3, wherein determining, by the high-layer function entity, the radio link state on the basis of whether the indication information is received or not before the first timer times out comprises:

determining, by the high-layer function entity, the radio link state on the basis of whether the indication information is received or not before the first timer times out which is earlier than timing out of the second timer or before both the first timer and

the second timer time out.

5. The method of claim 4, wherein determining, by the high-layer function entity, the radio link state on the basis of whether the indication information is received or not comprises:

determining, by the high-layer function entity, a Radio Link Failure (RLF), responsive to that a second preset amount of IS indication information is not received, the second preset amount being one or at least two; or

determining, by the high-layer function entity, that a radio link does not fail or indicating a physical layer to restart a beam failure recovery flow, responsive to that the second preset amount of IS indication information is received; or

determining, by the high-layer function entity, a RLF, responsive to that a third preset amount of beam recovery success indication information is not received, the third preset amount being one or at least two; or

determining, by the high-layer function entity, that a radio link does not fail, responsive to that the third preset amount of beam recovery success indication information is received; or

determining, by the high-layer function entity, a RLF, responsive to that a fourth preset amount of beam recovery failure indication information is received, the fourth preset amount being 0, one or at least two; or

determining, by the high-layer function entity, a RLF, responsive to that a fifth preset amount of OoS indication information is received, the fifth preset amount being one or at least two.

6. A high-layer function entity, comprising a receiving unit and a first starting unit, wherein

the receiving unit is configured to receive a first preset amount of beam recovery failure indication information, the first preset amount being one or at least two; and

the first starting unit is configured to start a first timer on the basis of the first preset amount of beam recovery failure indication information received by the receiving unit.

7. The high-layer function entity of claim 6, further comprising:

a determination unit, configured to determine a radio link state on the basis of whether the receiving unit receives the indication information or not before the first timer times out,

wherein the indication information comprises at least one of following information: In Sync (IS) indication information, beam recovery success indication information, the beam recovery failure indication information, or Out of Sync (OoS) indication information.

8. The high-layer function entity of claim 7, further comprising a second starting unit, wherein

the receiving unit is further configured to receive OoS indication information from a physical-layer function entity, the OoS indication information being used to indicate that a terminal is unable to be synchronized with a network;

the second starting unit is configured to start a second timer on the basis of the OoS indication information received by the receiving unit; and

the determination unit is further configured to determine whether the first timer times out earlier than the second timer or not.

9. The high-layer function entity of claim 8, wherein the determination unit is further configured to determine the radio link state on the basis of whether the receiving unit receives the indication information or not before the first timer times out which is earlier than timing out of the second timer or before both the first timer and the second timer time out.

10. The high-layer function entity of claim 6 or 7, wherein the first timer is not set with a timing-out moment, or is set with 0 or any numerical value as a timing-out moment.

11. The high-layer function entity of claim 9, wherein the determination unit is configured to:

determine a Radio Link Failure (RLF), responsive to that the receiving unit does not receive a second preset amount of IS indication information, the second

preset amount being one or at least two; or

determine that a radio link does not fail or indicate a physical layer to restart a beam failure recovery flow, responsive to that the receiving unit receives the second preset amount of IS indication information; or

determine a RLF, responsive to that the receiving unit does not receive a third preset amount of beam recovery success indication information, the third preset amount being one or at least two; or

determine that a radio link does not fail, responsive to that the receiving unit receives the third preset amount of beam recovery success indication information; or

determine a RLF, responsive to that the receiving unit receives a fourth preset amount of beam recovery failure indication information, the fourth preset amount being 0, one or at least two; or

determine a RLF, responsive to that the receiving unit receives a fifth preset amount of OoS indication information, the fifth preset amount being one or at least two.

12. The high-layer function entity of claim 9, wherein the determination unit is further configured to determine a radio link state on the basis of whether the receiving unit receives the indication information or not before the second timer times out which is earlier than timing out of the first timer or before both the first timer and the second timer time out.

13. The high-layer function entity of claim 12, wherein the determination unit is configured to

determine a RLF, responsive to that the receiving unit does not receive a sixth preset amount of IS indication information, the sixth preset amount being one or at least two; or

determine that a radio link does not fail or indicate a physical layer to restart a beam failure recovery flow, responsive to that the receiving unit receives the sixth preset amount of IS indication information; or

determine a RLF, responsive to that the receiving unit does not receive a seventh preset amount of beam recovery success indication information, the seventh preset amount being one or at least two; or

determine that a radio link does not fail, responsive to that the receiving unit receives a seventh preset amount of beam recovery success indication information, the seventh preset amount being one or at least two; or,

determine a RLF, responsive to that the receiving unit does not receive an eighth preset amount of IS indication information after the receiving unit receives a seventh preset amount of beam recovery success indication information and before the second timer times out which is earlier than timing out of the first timer or before both the first timer and the second timer time out, the eighth preset amount being one or at least two; or

determine that a radio link does not fail, responsive to that the receiving unit receives the eight preset amount of IS indication information; or

determine a RLF, responsive to that the receiving unit receives a ninth preset amount of beam recovery failure indication information.

14. The high-layer function entity of claim 6, further comprising a configuration unit, configured to, before the first starting unit starts the first timer, configure the first timer; or,

wherein the receiving unit is configured to obtain the first timer from a network device, the first timer being configured by the network device.

15. The high-layer function entity of claim 6, wherein the high-layer function entity comprises a Radio Resource Control (RRC) function entity, a Packet Data Convergence Protocol (PDCP) function entity, a Radio Link Control (RLC) function entity or a Media Access Control (MAC) function entity.