CLAIMS

1. A method for reestablishing a Radio Resource Control (RRC) connection, comprising:

determining, by a terminal, a Packet Data Convergence Protocol (PDCP) for initiating an RRC connection reestablishment procedure, based on knowledge of the PDCP supported by a first base station, wherein the PDCP is a first PDCP or a second PDCP, and wherein the first PDCP is Long Term Evolution (LTE) PDCP, and wherein the second PDCP is New Radio (NR) PDCP; and

initiating, by the terminal, the RRC connection reestablishment procedure to the first base station, based on the first PDCP or the second PDCP.

2. The method according to claim 1, wherein determining the PDCP for initiating the RRC connection reestablishment procedure, based on knowledge of the PDCP supported by the first base station comprises:

determining the PDCP for initiating the RRC connection reestablishment procedure, based on knowledge of a network mode of Dual Connectivity (DC) supported by the first base station,

wherein provided that the first base station supports the network mode of DC, the first base station supports the second PDCP.

3. The method according to claim 1 or 2, wherein the first base station supports the second PDCP, and

wherein initiating, by the terminal, the RRC connection reestablishment procedure to the first base station, based on the first PDCP or the second PDCP comprises:

when the terminal knows that the first base station supports the second PDCP, transmitting, by the terminal, an RRC connection reestablishment request message to the first base station, based on the second PDCP, to start the RRC connection reestablishment procedure between the terminal and the first base station based on the second PDCP.

4. The method according to claim 1 or 2, wherein the first base station supports the second PDCP, and

wherein initiating, by the terminal, the RRC connection reestablishment procedure to the first base station, based on the first PDCP or the second PDCP comprises:

when the terminal does not know that the first base station supports the second PDCP, transmitting, by the terminal, an RRC connection reestablishment request message, based on the first PDCP.

5. The method according to claim 1 or 2, wherein the first base station does not support the second PDCP; and

wherein initiating, by the terminal, the RRC connection reestablishment procedure to the first base station, based on the first PDCP or the second PDCP comprises: when the terminal knows that the first base station does not support the second PDCP or when the terminal does not know that the first base station does not support the second PDCP,

transmitting, by the terminal, the RRC connection reestablishment request message to the first base station based on the first PDCP; and

resuming, by the terminal, RRC connection with the first base station, by using the RRC connection reestablishment request message based on the first PDCP.

6. A terminal, comprising:

a determination unit, configured to determine a Packet Data Convergence Protocol (PDCP) for initiating an RRC connection reestablishment procedure, based on knowledge of the PDCP supported by a first base station, wherein the PDCP is a first PDCP or a second PDCP, and wherein the first PDCP is Long Term Evolution (LTE) PDCP, and wherein the second PDCP is New Radio (NR) PDCP; and

an RRC connection unit, configured to initiate the RRC connection reestablishment procedure to the first base station, based on the first PDCP or the second PDCP.

7. The terminal according to claim 6, wherein the determination unit is configured to:

determine the PDCP for initiating the RRC connection reestablishment procedure, based on knowledge of a network mode of Dual Connectivity (DC) supported by the first base station,

wherein provided that the first base station supports the network mode of DC, the first base station supports the second PDCP.

8. The terminal according to claim 6 or 7, wherein the first base station supports the second PDCP, and the RRC connection unit is configured to:

transmit an RRC connection reestablishment request message to the first base station based on the second PDCP, with knowing that the first base station supports the second PDCP, to start the RRC connection reestablishment procedure between the terminal and the first base station based on the second PDCP.

9. The terminal according to claim 6 or 7, wherein the first base station supports the second PDCP, and the RRC connection unit is configured to:

transmit an RRC connection reestablishment request message to the first base station based on the first PDCP, without knowing that the first base station supports the second PDCP.

10. The terminal according to claim 9, wherein in case that the first base station supports both the first PDCP and the second PDCP, after the RRC connection reestablishment procedure between the RRC connection unit and the first base station based on the first PDCP is complete, the terminal switches from the first PDCP to the second PDCP with the first base station, and perform a security mode command procedure with the first base station based on the second PDCP.

11. The terminal according to claim 9, wherein the RRC connection unit is further configured to:

receive an RRC connection failure message from the first base station due to failure to decode the RRC connection reestablishment request message transmitted based on the first PDCP; or

receive an RRC connection reestablishment message from the first base station that can use both the first PDCP and the second PDCP to decode the RRC connection reestablishment request message transmitted based on the first PDCP.

12. The terminal according to any of claims 8 to 11, wherein the first base station supporting the second PDCP is a master node in a Dual Connectivity (DC) network.

13. The terminal according to claim 6 or 7, wherein the first base station does not support the second PDCP; and the RRC connection unit is configured to: with or without knowing that the first base station does not support the second PDCP,

transmit the RRC connection reestablishment request message to the first base station based on the first PDCP; and

resume RRC connection with the first base station, by using the RRC connection reestablishment request message based on the first PDCP.

14. The terminal according to claim 13, further comprising a decision unit, configured to:

decide to release Secondary Cell Group (SCG) bearer; or

decide to keep the SCG bearer and then move the SCG bearer to the first base station.

15. The terminal according to claim 6 or 7, wherein the first base station does not support the second PDCP, and the RRC connection unit is configured to: without knowing that the first base station does not support the second PDCP,

transmit the RRC connection reestablishment request message to the first base station based on the second PDCP; and

receive an RRC connection failure message from the first base station due to failure to decode the RRC connection reestablishment request message transmitted based on the second PDCP.