

Claims

1. A network handover method, applied to a user equipment (UE), comprising:

receiving a first message, wherein the first message carries radio resource indication information; and

5 reserving part of radio resources of a source cell or all of the radio resources of the source cell according to the radio resource indication information;

10 wherein the radio resource indication information comprises one of the following: source cell reservation indication information, secondary cell information, reservation protocol data unit (PDU) session information, a non-access stratum (NAS) resource reservation indication, a suspend indication, or quality of service (QoS) flow reservation information, and wherein the suspend indication is used for indicating reserving the part of the radio resources of the source cell or all of the radio resources of the source cell after a network handover.

2. The method of claim 1, wherein the first message is a radio resource control (RRC) reconfiguration message, or the first message is a radio control message.

15 3. The method of claim 1, wherein the source cell reservation indication information is used for indicating reserving the part of the radio resources of the source cell or all of the radio resources of the source cell after a network handover.

20 4. The method of claim 1, wherein the secondary cell information is used for indicating reserving, based on a relationship between the secondary cell information and source cell information, the part of the radio resources of the source cell or all of the radio resources of the source cell after a network handover; and

wherein the secondary cell information is information of a single secondary cell or a list of secondary cells.

25 5. The method of claim 1, wherein the NAS resource reservation indication is used for indicating reserving part of NAS resources of the source cell or all of the NAS resources of the source cell after a network handover, wherein the part of the NAS resources of the source cell or all of the NAS resources comprise at least one of a registration status of the UE, tracking area updating (TAU) information, or integrity and encryption information.

30 6. The method of claim 1, wherein the part of the radio resources or all of the radio resources comprise part of radio connections or all of the radio connections, wherein the radio connections comprise at least one of an RRC connection, a signaling radio bearer (SRB), a data

radio bearer (DRB), a PDU session context, or an NAS connection.

7. The method of claim 1, wherein the part of the radio resources or all of the radio resources comprise part of radio configurations or all of the radio configurations, wherein the radio configurations comprise at least one of: a physical layer L1 configuration, a media access control (MAC) layer configuration, a radio link control (RLC) layer configuration, an RRC layer configuration, a packet data convergence protocol (PDCP) layer configuration, or an NAS configuration.

8. The method of claim 1, wherein the reservation PDU session information is used for indicating reserving a PDU session after a network handover; and

10 wherein the reservation PDU session information comprises one of the following: PDU session reservation indication information, or an information list of to-be-reserved PDU sessions, wherein the information list of to-be-reserved PDU sessions comprises information of at least one PDU session.

15 9. The method of claim 1, wherein the QoS flow reservation information is used for indicating reserving a QoS flow or QoS flow information after a network handover.

10. The method of claim 1, wherein reserving the part of the radio resources or all of the radio resources comprises:

continuing to use a downlink bandwidth part (BWP); and

20 receiving downlink data sent by a physical downlink shared channel (PDSCH) according to resource indication value (RIV) indication information in downlink control information (DCI).

11. The method of claim 10, wherein,

in response to $(L_{CRBs} - 1) \leq \lfloor N_{RB}^{DL}/2 \rfloor$ being satisfied, $RIV = N_{RB}^{DL}(L_{CRBs} - 1) + RB_{start}$; and

in response to $(L_{CRBs} - 1) \leq \lfloor N_{RB}^{DL}/2 \rfloor$ being not satisfied, $RIV = N_{RB}^{DL}(N_{RB}^{DL} - L_{CRBs} + 1) + (N_{RB}^{DL} - 1 - RB_{start})$;

25 wherein L_{CRBs} is a length of consecutive resource blocks (RBs), N_{RB}^{DL} is a number of RBs of a downlink bandwidth, and RB_{start} is a starting resource block in the downlink bandwidth.

12. The method of claim 1, wherein reserving the part of the radio resources or all of the radio resources comprises at least one of the following:

reserving a cell-radio network temporary identifier (C-RNTI) of the UE, wherein the C-RNTI of the UE is used for receiving DCI;

reserving a resource allocation manner of a physical uplink control channel (PUCCH);

reserving an allocated PUCCH resource set; or

5 reserving at least one DRB, reserving at least one SRB, and modifying one of an SRB1 or an SRB2 to an SRB3.

13. The method of claim 1, wherein reserving the part of the radio resources or all of the radio resources comprises at least one of the following:

10 continuing to use an original PDU session for a data transmission, or after a PDU session is initiated by the UE, reestablishing and recovering a data connection; or

using a security context before a network handover.

14. The method of claim 1, wherein reserving the part of the radio resources or all of the radio resources comprises:

reserving a dedicated control channel (DCCH); and

15 wherein reserving the DCCH comprises:

continuing to send and receive data according to the DCCH.

15. The method of claim 1, wherein reserving the part of the radio resources or all of the radio resources comprises:

20 reserving part of QoS flows or QoS flow information, or reserving all of QoS flows or QoS flow information; and

wherein reserving the QoS flows or the QoS flow information comprises:

continuing to use the QoS flow or the QoS flow information to perform at least one of data sending of a user plane or data receiving of a user plane.

16. A network handover method, applied to a network node, comprising:

25 sending a first message to a user equipment (UE), wherein the first message carries radio resource indication information, and the radio resource indication information is used for

indicating reserving part of radio resources of a source cell or all of the radio resources of the source cell after a network handover;

5 wherein the radio resource indication information comprises one of the following: source cell reservation indication information, secondary cell information, reservation protocol data unit (PDU) session information, a non-access stratum (NAS) resource reservation indication, a suspend indication, or quality of service (QoS) flow reservation information, and wherein the suspend indication is used for indicating reserving the part of the radio resources of the source cell or all of the radio resources of the source cell after a network handover.

17. A device, comprising:

10 at least one processor;

a memory, which is configured to store at least one program;

wherein the at least one program, when executed by the at least one processor, causes the at least one processor to implement the method of any one of claims 1 to 16.