

What is claimed is:

1. A conditional handover method, performed by a user equipment (UE) which is connected to a primary cell (PCell) and a primary secondary cell (PSCell), the method comprising:

in a case where there is a target primary cell (PCell) that meets a first handover event and a PSCell that meets a second handover event, performing a conditional handover procedure from a source PCell to the target PCell.

2. The method according to claim 1, further comprising:

receiving first configuration information and second configuration information of conditional handover sent by a network device; wherein the first configuration information is configuration information used to indicate the first handover event that the target PCell needs to meet when performing PCell conditional handover, and the second configuration information is configuration information used to indicate the second handover event that PSCell needs to meet;

determining the target PCell that meets the first handover event according to the first configuration information;

determining whether the PSCell meets the second handover event according to the second configuration information.

3. The method according to claim 2, wherein the first configuration information includes one or more candidate target PCells, the first handover event for triggering conditional handover corresponding to each candidate target PCell, and/or a threshold value corresponding to the first handover event;

wherein the determining the target PCell that meets the first handover event according to the first configuration information, includes:

according to the first configuration information, selecting a first candidate target PCell that meets the corresponding first handover event from the one or more candidate target PCells;

determining the first candidate target PCell as the target PCell.

4. The method according to claim 2, wherein the second configuration information includes the second handover event for triggering conditional handover corresponding to the PSCell and/or a threshold value corresponding to the second handover event.

5. The method according to claim 1, wherein the first handover event includes A3 event and/or A5 event; the second handover event is A2 event or A4 event or a first event, and the first event is a newly defined event.

6. The method according to claim 2, wherein the first configuration information and the second configuration information are configured by a primary node, or the first configuration information is configured by the primary node and the second configuration information is configured by a secondary node.

7. An information transmission method, performed by a network device, comprising:
sending first configuration information and second configuration information of conditional handover to a user equipment (UE); wherein the first configuration information is configuration information used to indicate a first handover event that a target PCell needs to meet when performing PCell conditional handover; the second configuration information is configuration information used to indicate a second handover event that a PSCell needs to meet.

8. The method according to claim 7, wherein the first configuration information includes one or more candidate target PCells, the first handover event for triggering conditional handover corresponding to each candidate target PCell, and/or a threshold value corresponding to the first handover event; and the second configuration information includes the second handover event for triggering conditional handover corresponding to PSCell and/or a threshold value corresponding to the second handover event.

9. The method according to claim 7, wherein the first handover event includes A3 event and/or A5 event; the second handover event is A2 event or A4 event or a first event, and the first event is a newly defined event.

10. The method according to claim 7, wherein the network device includes a primary node and/or a secondary node.

11. An information transmission method, performed by a user equipment (UE), comprising:

sending first information related to success or failure of conditional handover to a network device;

wherein the first information includes at least one of the following:

relevant identifier of a cell that triggers conditional handover;

handover event or events that trigger conditional handover;

a threshold value or values corresponding to handover event or events that trigger conditional handover;

network device that configures conditional handover for the UE;

a first time difference which is a difference between a moment when the UE receives the configuration information of the conditional handover and a moment when a handover event of the conditional handover is met;

relevant event information that the handover event or events that trigger the conditional condition is met;

a second time difference which is a difference between a moment when a handover event for triggering conditional handover corresponding to the PCell is met and a moment when a handover event for triggering conditional handover corresponding to the PSCell is met.

12. The method according to claim 11, further comprising:

receiving the first configuration information and the second configuration information of the conditional handover sent by the network device; wherein the first configuration information is configuration information used to indicate the first handover event that the target PCell needs to meet when performing the PCell conditional handover; the second configuration information is configuration information used to indicate the second handover event that PSCell needs to meet.

13. The method according to claim 12, wherein the first configuration information includes one or more candidate target PCells, a first handover event for triggering conditional handover corresponding to each candidate target PCell, and/or a threshold value corresponding to the first handover event; the second configuration information includes a second handover event for triggering conditional handover corresponding to the PSCell and/or a threshold value corresponding to the second handover event.

14. An information processing method, performed by a network device, comprising:

receiving first information sent by a user equipment (UE);

adjusting, according to the first information, configuration information of conditional handover configured for the UE;

wherein the first information includes at least one of the following:

- relevant identifier of a cell that triggers conditional handover;
- handover event or events that trigger conditional handover;
- a threshold value or values corresponding to handover event or events that trigger conditional handover;
- network device that configures conditional handover for the UE;
- a first time difference which is a difference between a moment when the UE receives the configuration information of the conditional handover and a moment when a handover event of the conditional handover is met;
- relevant event information that the handover event or events that trigger the conditional condition is met;
- a second time difference which is a difference between a moment when a handover event for triggering conditional handover corresponding to the PCell is met and a moment when a handover event for triggering conditional handover corresponding to the PSCell is met.

15. The method according to claim 14, further comprising:

sending first configuration information and second configuration information of conditional handover to the UE; wherein the first configuration information is configuration information used to indicate the first handover event that the target PCell needs to meet when performing the PCell conditional handover, and the second configuration information is configuration information used to indicate the second handover event that PSCell needs to meet.

16. The method according to claim 15, wherein the first configuration information includes one or more candidate target PCells, the first handover event for triggering conditional handover corresponding to each candidate target PCell, and/or a threshold value corresponding to the first handover event; the second configuration information includes the second handover event for triggering conditional handover corresponding to the PSCell and/or a threshold value corresponding to the second handover event.

17. A user equipment (UE) in connection with a source primary cell (PCell) and a primary secondary cell (PSCell), comprising: a processor and a transceiver; wherein the transceiver receives and sends data under control of the processor, and the processor is used to perform following actions:

in a case where there is a target primary cell (PCell) that meets a first handover event and a PSCell that meets a second handover event, performing a conditional handover procedure from the source PCell to the target PCell.

18. A network device, comprising a processor and a transceiver; wherein the transceiver receives and sends data under control of the processor, and the processor is used to perform following process:

sending, through transceiver, first configuration information and second configuration information of conditional handover to a user equipment (UE); wherein the first configuration information is configuration information used to indicate a first handover event that a target PCell needs to meet when performing PCell conditional handover; the second configuration information is configuration information used to indicate a second handover event that a PSCell needs to meet.

19. A user equipment (UE), comprising: a processor and a transceiver; wherein the transceiver receives and sends data under control of the processor, and the processor is used to perform following process:

sending, through transceiver, first information related to success or failure of conditional handover to a network device;

wherein the first information includes at least one of the following:

relevant identifier of cell that triggers conditional handover;

handover event or events that trigger conditional handover;

a threshold value or values corresponding to handover event or events that trigger conditional handover;

network device that configures conditional handover for the UE;

a first time difference which is a difference between a moment when the UE receives the configuration information of the conditional handover and a moment when a handover event of the conditional handover is met;

relevant event information that the handover event or events that trigger the conditional condition is met;

a second time difference which is a difference between a moment when a handover event for triggering conditional handover corresponding to the PCell is met and a moment when a handover event for triggering conditional handover corresponding to the PSCell is met.

20. A network device, comprising: a processor and a transceiver; wherein the transceiver receives and sends data under control of the processor, and the processor is used to perform following process:

receiving, through the transceiver, first information sent by a user equipment (UE);

adjusting, according to the first information, configuration information of conditional handover configured for the UE;

wherein the first information includes at least one of the following:

relevant identifier of cell that triggers conditional handover;

handover event or events that trigger conditional handover;

a threshold value or values corresponding to handover event or events that trigger conditional handover;

network device that configures conditional handover for the UE;

a first time difference which is a difference between a moment when the UE receives the configuration information of the conditional handover and a moment when a handover event of the conditional handover is met;

relevant event information that the handover event or events that trigger the conditional condition is met;

a second time difference which is a difference between a moment when a handover event for triggering conditional handover corresponding to the PCell is met and a moment when a handover event for triggering conditional handover corresponding to the PSCell is met.