

CLAIMS

1. A resource configuration method for handover, comprising:

determining, by a first network node, handover resource pool configuration information
5 with a second network node, wherein the handover resource pool configuration information is used to determine configuration information on handover resource in a handover resource pool, and the configuration information on the handover resource comprises location information of a physical time-frequency resource block;

when a mobile station accesses to the first network node, sending, by the first network node,
10 the handover resource pool configuration information to the mobile station; and

sending, by the first network node, first indication information to the mobile station, the first indication information indicating the mobile station to communicate via the handover resource in the handover resource pool,

receiving a plurality of uplink data packets which are the same sent by the mobile station
15 via the handover resource, determining one of the plurality of uplink data packets as an uplink received data packet, and acquiring uplink data in the uplink received data packet.

2. The method as claimed in claim 1, wherein determining, by the first network node, the handover resource pool configuration information with the second network node comprises:

performing, by the first network node, coordination with the second network node through
20 an interface between the first network node and the second network node to determine the handover resource pool configuration information.

3. The method as claimed in claim 1, wherein the configuration information on the handover
25 resource in the handover resource pool further comprises at least one of:

modulation and coding scheme information, configuration information of a reference signal or antenna configuration information.

4. The method as claimed in any one of claims 1-3, wherein sending, by the first network node, the
30 first indication information to the mobile station comprises:

when it is determined that the mobile station will be handed over from the first network node to the second network node, sending the first indication information to the mobile station.

5. The method as claimed in claim 4, wherein before sending the first indication information to the
35 mobile station, the method further comprises:

determining whether the mobile station will be handed over from the first network node to the second network node according to a moving trajectory of the mobile station; or

determining whether the mobile station will be handed over from the first network node to

the second network node according to strength of a measurement signal reported by the mobile station; or

determining whether the mobile station will be handed over from the first network node to the second network node according to the moving trajectory and moving speed of the mobile station.

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6. The method as claimed in any one of claims 1-5, wherein sending the handover resource pool configuration information to the mobile station comprises:

sending the handover resource pool configuration information to the mobile station through a system information broadcast; or

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sending the handover resource pool configuration information to the mobile station through control signaling.

7. The method as claimed in any one of claims 1-6, wherein

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the first indication information is indicated by one or more reserved information bits of physical-layer control signaling; or

the first indication information is indicated by a new allocated Radio Network Temporary Identity (RNTI); or

the first indication information is indicated by a new physical-layer control signaling format.

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8. The method as claimed in any one of claims 1-7, further comprising:

performing, by the first network node, coordination with at least one other network node to receive the uplink data, which is sent by the mobile station via the handover resource.

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9. The method as claimed in claim 8, wherein the first network node and the at least one other network node use completely the same or completely different physical resource configuration information to receive the uplink data, which is sent by the mobile station via the handover resource.

10. The method as claimed in any one of claims 1-9, further comprising:

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sending, by the first network node, downlink data to the mobile station,

wherein sending the downlink data to the mobile station comprises:

performing, by the first network node, coordination with at least one other network node to send the downlink data to the mobile station.

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11. The method as claimed in claim 10, wherein the first network node and the at least one other network node use completely the same or completely different physical resource configuration information to send the downlink data to the mobile station.

12. The method as claimed in claim 1, wherein the first indication information indicates the mobile

station to communicate with at least one of the first network node or the second network node via the handover resource in the handover resource pool.

13. A resource configuration method for handover, comprising:

5 when a mobile station accesses to a first network node, acquiring, by the mobile station, handover resource pool configuration information sent by the first network node, wherein the handover resource pool configuration information is used to determine configuration information on handover resource in a handover resource pool, and the configuration information on the handover resource comprises location information of a physical time-frequency resource block;

10 receiving, by the mobile station, first indication information sent by the first network node, the first indication information indicating the mobile station to use the handover resource in the handover resource pool; and

 communicating, by the mobile station, with at least one of the first network node, a second network node or other mobile station via the handover resource according to the first indication information,

15 wherein communicating with at least one of the first network node, the second network node or the other mobile station comprises:

 sending, by the mobile station, a plurality of uplink data packets which are the same via the handover resource, to enable the first network node and/or the second network node to determine one of the plurality of uplink data packets as an uplink received data packet, and acquire uplink data in the uplink received data packet.

14. The method as claimed in claim 13, wherein

25 the handover resource pool configuration information is sent by the first network node through a system information broadcast; or

 the handover resource pool configuration information is sent by the first network node through control signaling.

15. The method as claimed in any one of claims 13-14, wherein

30 the first indication information is indicated by one or more reserved information bits of physical-layer control signaling; or

 the first indication information is indicated by a new allocated Radio Network Temporary Identity (RNTI); or

 the first indication information is indicated by a new physical-layer control signaling format.

16. The method as claimed in claim 13, wherein the configuration information on the handover resource in the handover resource pool further comprises at least one of:

 modulation and coding scheme information, configuration information of a reference signal

or antenna configuration information.

17. A mobile station, comprising:

an acquisition unit configured to, when the mobile station accesses to a first network node,
5 acquire handover resource pool configuration information sent by the first network node, wherein
the handover resource pool configuration information is used to determine configuration
information on handover resource in a handover resource pool, and the configuration information
on the handover resource comprises location information of a physical time-frequency resource
block;

10 a receiving unit configured to receive first indication information sent by the first network
node, the first indication information indicating the mobile station to use the handover resource in
the handover resource pool acquired by the acquisition unit; and

a communication unit configured to communicate with at least one of the first network node,
a second network node or other mobile station via the handover resource according to the first
15 indication information received by the receiving unit,

wherein the communication unit comprises a sending subunit configured to:

send a plurality of uplink data packets which are the same via the handover resource, to
enable the first network node and/or the second network node to determine one of the plurality of
uplink data packets as an uplink received data packet, and acquire uplink data in the uplink received
20 data packet.

18. The mobile station as claimed in claim 17, wherein the configuration information on the
handover resource in the handover resource pool further comprises at least one of:

modulation and coding scheme information, configuration information of a reference signal
25 or antenna configuration information.