CLAIMS

What is claimed is:

1. A serving node update method, applied to a first node, wherein the first node is a source node or a master node, and the method comprises:

sending a first message to a target node, wherein the first message indicates that the first node requests to perform a serving node update in a multi-connectivity serving node update manner;

receiving, from the target node, a second message used for responding to the first message, wherein the second message indicates that the target node rejects or accepts the multi-connectivity serving node update manner; and

sending a third message to a terminal device when the second message indicates that the target node rejects the~~a~~ multi-connectivity serving node update manner, wherein the third message is used to indicate the terminal device to perform a serving node update in a legacy serving node update manner, and the multi-connectivity serving node update manner is used to indicate that the terminal device remains connected with the source node during the serving node update.

2. The method according to claim 1, wherein the method further comprises:

sending a fourth message to the terminal device when the second message indicates that the target node accepts the multi-connectivity serving node update manner, wherein the fourth message is used to indicate the terminal device to perform a serving node update in a multi-connectivity serving node update manner.

3. The method according to claim 1, wherein the first node is a source node, and after the receiving, from the target node, a second message used for responding to the first message, the method further comprises:

releasing a configuration required for the multi-connectivity serving node update manner and reserved by the source node.

4. The method according to claim 1, wherein the first node is a master node, and before the sending a first message to a target node, the method further comprises:

receiving the first message from a source node.

5. The method according to claim 4, wherein after the receiving, from the target node, a second message used for responding to the first message, the method further comprises:

notifying the source node to release a reserved configuration required for the multi-connectivity serving node update manner.

6. The method according to claim 1, wherein the first node is a source node, and the sending a first message to a target node comprises:

sending the first message to the target node through a master node; and

the receiving, from the target node, a second message used for responding to the first message comprises:

receiving, from the master node, the second message used for responding to the first message, wherein the second message is sent by the target node to the master node.

7. The method according to claim 1, wherein the first node is a master node, and the sending a third message to a terminal device comprises:

sending the third message to the terminal device through a source node.

8. The method according to any one of claims 1 to 7, wherein the second message comprises any one of the following:

first information, wherein the first information indicates that the target node rejects the multi-connectivity serving node update manner; and

second information, wherein the second information indicates that the target node accepts the multi-connectivity serving node update manner.

9. The method according to claim 8, wherein when the second message comprises the first information, the second message further comprises any one or a combination of the following:

third information, wherein the third information indicates a cell resource configuration used for a legacy serving node update; and

fourth information, wherein the fourth information indicates a cause why the target node rejects the multi-connectivity serving node update manner.

10. The method according to claim 9, wherein the cause why the target node rejects the multi-connectivity serving node update manner comprises any one of the following:

the target node does not support the multi-connectivity serving node update manner; and

there is no radio resource available for the target node.

11. The method according to claim 8, wherein when the second message comprises the second information, the second message further comprises any one or a combination of the following:

fifth information, wherein the fifth information indicates a cell resource configuration used for the multi-connectivity serving node update manner; and

sixth information, wherein the sixth information indicates a cell resource configuration to be

used after the source node is released.

12. The method according to claim 11, wherein the cell resource configuration used for the multi-connectivity serving node update manner comprises any one or a combination of the following:

a cell resource configuration sent by the source node; and

a cell resource configuration configured by the target node.

13. The method according to any one of claims 1 to 12, wherein the first message comprises one or more of the following:

seventh information, wherein the seventh information indicates a configuration required for the multi-connectivity serving node update manner and reserved by the source node;

eighth information, wherein the eighth information indicates a request type of the first message, and the request type of the first message comprises any one of the following: a multi-connectivity serving node update request and a legacy serving node update request;

ninth information, wherein the ninth information indicates that the multi-connectivity serving node update manner is able to fall back to the legacy serving node update manner, or indicates that the multi-connectivity serving node update manner is not expected to fall back to the legacy serving node update manner;

tenth information, wherein the tenth information indicates an access-stratum context of the terminal device;

eleventh information, wherein the eleventh information indicates an access-stratum configuration of the terminal device;

twelfth information, wherein the twelfth information indicates a measurement result reported by the terminal device; and

thirteenth information, wherein the thirteenth information indicates a capability of the terminal device.

14. A serving node update method, applied to a target node, wherein the method comprises:

receiving a first message from a first node, wherein the first node is a source node or a master node, wherein the first message indicates that the first node requests to perform a serving node update in a multi-connectivity serving node update manner; and

sending, to the first node, a second message used for responding to the first message, wherein the second message indicates that the target node rejects or accepts the multi-connectivity serving

node update manner, when the second message indicates that the target node rejects thea multi-connectivity serving node update manner, the first node is enabled to send a third message to a terminal device, and the third message is used to indicate the terminal device to perform a serving node update in a legacy serving node update manner, and the multi-connectivity serving node update manner is used to indicate that the terminal device remains connected with the source node during the serving node update.

15. The method according to claim 14, wherein the first node is a master node, and the receiving a first message from a first node comprises:

receiving, through the master node, the first message sent by a source node.

16. The method according to claim 14, wherein the first node is a source node, and the receiving a first message from a first node comprises:

receiving, through a master node, the first message sent by the source node; and

the sending, to the first node, a second message used for responding to the first message comprises:

sending, to the first node through the master node, the second message used for responding to the first message.

17. A serving node update method, applied to a terminal device, wherein the method comprises:

receiving a third message from a first node when a target node rejects a multi-connectivity serving node update manner, wherein the third message is used to indicate the terminal device to perform a serving node update in a legacy serving node update manner; and

performing a serving node update in the legacy serving node update manner according to the third message, wherein the multi-connectivity serving node update manner is used to indicate that the terminal device remains connected with the source node during the serving node update.

18. A first node, wherein the first node is a source node or a master node, comprising:

a first transmitting module, configured to send a first message to a target node, wherein the first message indicates that the first node requests to perform a serving node update in a multi-connectivity serving node update manner;

a first receiving module, configured to receive, from the target node, a second message used for responding to the first message, wherein the second message indicates that the target node rejects or accepts the multi-connectivity serving node update manner; and

a second transmitting module, configured to send a third message to a terminal device when the second message indicates that the target node rejects thea multi-connectivity serving node update manner, wherein the third message is used to indicate the terminal device to perform a serving node update in a legacy serving node update manner, and the multi-connectivity serving node update manner is used to indicate that the terminal device remains connected with the source node during the serving node update.

19. A target node, comprising:

a third receiving module, configured to receive a first message from a first node, wherein the first node is a source node or a master node, wherein the first message indicates that the first node requests to perform a serving node update in a multi-connectivity serving node update manner; and

a fourth transmitting module, configured to send, to the first node, a second message used for responding to the first message, wherein the second message indicates that the target node rejects or accepts the multi-connectivity serving node update manner, when the second message indicates that the target node rejects thea multi-connectivity serving node update manner, the first node is enabled to send a third message to a terminal device, and the third message is used to indicate the terminal device to perform a serving node update in a legacy serving node update manner, and the multi-connectivity serving node update manner is used to indicate that the terminal device remains connected with the source node during the serving node update.

20. A terminal device, comprising:

a fourth receiving module, configured to: receive a third message from a first node when a target node rejects a multi-connectivity serving node update manner, wherein the third message is used to indicate the terminal device to perform a serving node update in a legacy serving node update manner; and

a processing module, configured to perform a serving node update in the legacy serving node update manner according to the third message, wherein the multi-connectivity serving node update manner is used to indicate that the terminal device remains connected with the source node during the serving node update.