CLAIMS

1. A transmission control method, applied to a first node device, which controls data duplication transmission through a Radio Resource Control (RRC) message, the method comprises:

controlling, by the first node device, an on-off state of a data duplication transmission mode; and

sending, by the first node device, a notification message to a second node device, wherein the notification message indicates that the data duplication transmission mode is in the on state or the data duplication transmission mode is in the off state.

2. The method of claim 1, wherein controlling, by the first node device, the on-off state of the data duplication transmission mode comprises:

turning on, by the first node device, the data duplication transmission mode through the RRC message; or

turning off, by the first node device, the data duplication transmission mode through the RRC message.

3. The method of claim 1, wherein sending, by the first node device, the notification message to the second node device comprises:

sending, by the first node device, the notification message to the second node device through an interface between network nodes.

4. A transmission control method, applied to a second node device, which controls data duplication transmission through a Medium Access Control (MAC) message, the method comprises:

receiving, by the second node device, a notification message sent by a first node device, wherein the notification message indicates that a data duplication transmission mode is in an on state or the data duplication transmission mode is in an off state; and

determining, by the second node device, whether to control an activation state

of a data duplication transmission capability through the MAC message according to the on-off state, indicated in the notification message, of the data duplication transmission mode, wherein the activation state comprises activated and deactivated states.

5. The method of claim 4, wherein determining, by the second node device, whether to control the activation state of the data duplication transmission capability through the MAC message according to the on-off state, indicated in the notification message, of the data duplication transmission mode comprises:

responsive to determining, by the second node device according to the notification message, that the data duplication transmission mode is in the on state, controlling, by the second node device, the activation state of the data duplication transmission capability through the MAC message; or

responsive to determining, by the second node device according to the notification message, that the data duplication transmission mode is in the off state, not controlling, by the second node device, the activation state of the data duplication transmission capability.

6. A transmission control method, applied to User Equipment (UE), which represents a user side, the method comprises:

acquiring an on-off state of a data duplication transmission mode from a first node device; and

determining a processing strategy for a Medium Access Control (MAC) message sent by a second node device according to the on-off state of the data duplication transmission mode, and processing the MAC message sent by the second node device according to the processing strategy.

7. The method of claim 6, wherein the first node device controls data duplication transmission through a Radio Resource Control (RRC) message and the second node device controls data duplication transmission through the MAC message, wherein acquiring the on-off state of the data duplication transmission mode from the first node device comprises:

acquiring and monitoring the RRC message sent by the first node device, and

analyzing the RRC message to control whether the first node device controls the on-off state of the data duplication transmission mode and control the first node device to turn on or turn off the data duplication transmission mode.

8. The method of claim 7, wherein determining the processing strategy for the MAC message sent by the second node device according to the on-off state of the data duplication transmission mode and processing the MAC message sent by the second node device according to the processing strategy comprises:

responsive to the data duplication transmission mode being in the on state, receiving the MAC message sent by the second node device, and activating or deactivating a data duplication transmission capability according to the MAC message, wherein the MAC message indicates an activation state of the data duplication transmission capability and the activation state comprises an activated or deactivated state; or

responsive to the data duplication transmission mode being in the off state, ignoring the MAC message sent by the second node device.

9. A node device, comprising a control part and a sending part, wherein the control part is configured to control an on-off state of a data duplication transmission mode; and

the sending part is configured to send a notification message to a second node device, wherein the notification message indicates that the data duplication transmission mode is in the on state or the data duplication transmission mode is in the off state.

10. The node device of claim 9, wherein the control part is configured to:

turn on the data duplication transmission mode through a Radio Resource Control (RRC) message; or

turn off the data duplication transmission mode through the RRC message; or

not turn on the data duplication transmission mode, wherein the data duplication transmission mode is initially in the off state.

11. A node device, comprising a receiving part and a determination part, wherein

the receiving part is configured to receive a notification message sent by a first node device, wherein the notification message indicates that a data duplication transmission mode is in an on state or the data duplication transmission mode is in an off state; and

the determination part is configured to determine whether to control an activation state of a data duplication transmission capability through a Medium Access Control (MAC) message according to the on-off state, indicated in the notification message, of the data duplication transmission mode, wherein the activation state comprises activated or deactivated states.

12. The node device of claim 11, wherein the determination part is configured to:

responsive to determining according to the notification message that the data duplication transmission mode is in the on state, control the activation state of the data duplication transmission capability through the MAC message; or

responsive to determining according to the notification message that the data duplication transmission mode is in the off state, not control the activation state of the data duplication transmission capability.

13. A User Equipment (UE), comprising an acquisition part, a determination part and a processing part, wherein the acquisition part is configured to acquire an on-off state of a data duplication transmission mode from a first node device;

the determination part is configured to determine a processing strategy for a Medium Access Control (MAC) message sent by a second node device according to the on-off state of the data duplication transmission mode; and

the processing part is configured to process the MAC message sent by the second node device according to the processing strategy.

14. The UE of claim 13, wherein the first node device controls data duplication transmission through a Radio Resource Control (RRC) message and the second node device controls data duplication transmission through the MAC message, wherein the acquisition part is configured to:

acquire or monitor the RRC message sent by the first node device and analyze the RRC message to learn about whether the first node device controls the on-off state

of the data duplication transmission mode and that the first node device turns on or turns off the data duplication transmission mode.

15. The UE of claim 13, wherein the processing part is configured to:

responsive to the data duplication transmission mode being in the on state, receive the MAC message sent by the second node device and activate or deactivate a data duplication transmission capability according to the MAC message, the MAC message being configured to indicate an activation state of the data duplication transmission capability and the activation state comprising an activated or deactivated state; or

responsive to the data duplication transmission mode being in the off state, ignore the MAC message sent by the second node device.

16. A node device, comprising: a storage medium configured to store executable instructions; and a processor, configured to execute the stored executable instructions, the executable instructions being configured to execute the transmission control method of any one of claims 1-3.

17. A node device, comprising: a storage medium configured to store executable instructions; and a processor, configured to execute the stored executable instructions, the executable instructions being configured to execute the transmission control method of claim 4 or 5.

18. A User Equipment (UE), comprising: a storage medium configured to store executable instructions; and a processor, configured to execute the stored executable instructions, the executable instructions being configured to execute the transmission control method of any one of claims 6-8.

19. A transmission control system, comprising a first node device and a second node device, wherein a control manner of the first node device for data duplication transmission is different from a control manner of the second node device for data duplication transmission;

the first node device is configured to send a notification message to the second

node device through a network device, wherein the notification message indicates that a data duplication transmission mode is in an on state or the data duplication transmission mode is in an off state; and

the second node device is configured to determine according to the notification message that the data duplication transmission mode is in the on state or the off state, and

responsive to the data duplication transmission mode being in the on state, control an activation state of a data duplication transmission capability through a Medium Access Control (MAC) message, wherein the activation state comprises an activated or deactivated state, or

responsive to the data duplication transmission mode being in the off state, not control the activation state of the data duplication transmission capability.

20. A transmission control system, comprising a first node device, a second node device and User Equipment (UE), wherein a control manner of the first node device for data duplication transmission is different from a control manner of the second node device for data duplication transmission;

the first node device is configured to control an on-off state of a data duplication transmission mode through a Radio Resource Control (RRC) message; and

the UE is configured to acquire the on-off state of the data duplication transmission mode, and

determine a processing strategy for a Medium Access Control (MAC) message sent by the second node device according to the on-off state of the data duplication transmission mode and process the MAC message sent by the second node device according to the processing strategy.