CLAIMS

What is claimed is:

1. A method for data transmission, applied to a terminal and comprising:

determining at least two transmission paths usable for a radio bearer in a case that a packet data convergence protocol (PDCP) duplication function of the radio bearer changes from an activated state to a deactivated state; and

transmitting PDCP data by using the at least two transmission paths;

wherein the determining at least two transmission paths usable for a radio bearer comprises:

determining the at least two transmission paths usable for the radio bearer based on first configuration information;

wherein the first configuration information is configuration information with the PDCP duplication function of the radio bearer deactivated;

wherein the first configuration information comprises using a dual connectivity (DC) working mode for the radio bearer after deactivation of the PDCP duplication function;

wherein the first configuration information further comprises: configuration information of the DC working mode;

wherein the configuration information of the DC working mode comprises:

identification information of a primary transmission path used for the DC working mode; and

identification information of a secondary transmission path used for the DC working mode.

2. The method according to claim 1, wherein the determining at least two transmission paths usable for a radio bearer comprises:

determining the at least one transmission path usable for the radio bearer based on:

deactivation signaling received from a network device; wherein

the deactivation signaling is used to indicate changing the PDCP duplication function of the radio bearer from the activated state to the deactivated state.

3. The method according to claim 1, wherein the first configuration information further comprises:

identification information of at least one usable transmission path.

4. The method according to claim 2, wherein the deactivation signaling indicates any one of the following:

that all transmission paths of the radio bearer are to be in the deactivated state;

that a first transmission path of the radio bearer is to be in the activated state while other transmission paths are to be in the deactivated state, wherein the other transmission paths are transmission paths other than the first transmission path in all the transmission paths of the radio bearer; or

two transmission paths, wherein the two transmission paths are transmission paths of the radio bearer in the DC working mode after deactivation of the PDCP duplication function.

5. The method according to claim 2, wherein the determining at least two transmission paths usable for a radio bearer comprises:

in a case that the deactivation signaling indicates that all the transmission paths of the radio bearer are to be in the deactivated state, determining the at least two transmission paths based on the identification information comprised in the first configuration information;

in a case that the deactivation signaling indicates that the first transmission path of the radio bearer is to be in the activated state and other transmission paths are to be in the deactivated state, determining the first transmission path as one of the at least two transmission paths;

in a case that the first configuration information comprises the identification information of the primary transmission path for the DC working mode and the identification information of the secondary transmission path for the DC working mode, determining the primary transmission path as a primary transmission path of the radio bearer in the DC working mode, and determining a transmission path to be in the

activated state as indicated by the deactivation signalling as a secondary transmission path of the radio bearer in the DC working mode; and determining the secondary transmission path as a secondary transmission path of the radio bearer in the DC working mode, and determining a transmission path to be in the activated state as indicated by the deactivation signalling as a primary transmission path of the radio bearer in the DC working mode; and

determining the two transmission paths indicated by the deactivation signaling as the at least two transmission paths in the DC working mode, wherein the two transmission paths are transmission paths of the radio bearer in the DC working mode after deactivation of the PDCP duplication function.

6. The method according to claim 5, wherein after the determining the two transmission paths indicated by the deactivation signaling as the at least two transmission paths in the DC working mode, the method further comprises:

determining a transmission path of a master cell group MCG in the two transmission paths as a primary transmission path, and determining a transmission path of a secondary cell group SCG in the two transmission paths as a secondary transmission path; or

determining a transmission path of an SCG in the two transmission paths as a primary transmission path, and determining a transmission path of an MCG in the two transmission paths as a secondary transmission path.

7. The method according to claim 1, wherein before the determining at least two transmission paths usable for a radio bearer in a case that a packet data convergence protocol PDCP duplication function of the radio bearer changes from an activated state to a deactivated state, the method further comprises:

obtaining second configuration information; and

determining an initial state of the PDCP duplication function of the radio bearer based on the second configuration information; wherein

the second configuration information comprises the initial state of the PDCP duplication function of the radio bearer, and the initial state is any one of the activated state or the deactivated state.

8. The method according to claim 7, wherein

the second configuration information further comprises: configuration information with the initial state being an activated state, or configuration information with the initial state being a deactivated state; and

the configuration information with the initial state being an activated state comprises identification information of a plurality of activated transmission paths; and the configuration information with the initial state being a deactivated state comprises identification information of at least two usable transmission paths.

9. The method according to claim 8, further comprising:

determining, based on the second configuration information, a transmission path for transmitting the PDCP data.

10. A method for information configuration, applied to a network device and comprising:

transmitting first configuration information to a terminal; wherein

the first configuration information is configuration information with a PDCP duplication function of a radio bearer deactivated; the first configuration information comprises configuration information of a dual connectivity (DC) working mode that is used for the radio bearer after deactivation of the PDCP duplication function; and the configuration information of the DC working mode comprises: identification information of a primary transmission path used for the DC working mode, and identification information of a secondary transmission path used for the DC working mode.

11. The method according to claim 10, wherein the first configuration information further comprises:

identification information of at least one usable transmission path.

12. The method according to claim 10, wherein after the transmitting first configuration information to a terminal, the method further comprises:

transmitting deactivation signaling to the terminal, wherein

the deactivation signaling is used to indicate that the packet data convergence protocol PDCP duplication function of the radio bearer changes from an activated state to a deactivated state.

13. The method according to claim 12, wherein the deactivation signaling indicates any one of the following:

that all transmission paths of the radio bearer are to be in the deactivated state;

that a first transmission path of the radio bearer is to be in the activated state while other transmission paths are to be in the deactivated state, wherein the other transmission paths are transmission paths other than the first transmission path in all the transmission paths of the radio bearer; or

two transmission paths, wherein the two transmission paths are transmission paths of the radio bearer in the DC working mode after deactivation of the PDCP duplication function.

14. The method according to claim 10, further comprising:

transmitting second configuration information to the terminal; wherein

the second configuration information comprises an initial state of the PDCP duplication function of the radio bearer, and the initial state is any one of the activated state and the deactivated state.

15. The method according to claim 14, wherein

the second configuration information further comprises: configuration information with the initial state being an activated state, or configuration information with the initial state being a deactivated state; and

the configuration information with the initial state being an activated state comprises identification information of a plurality of activated transmission paths; and the configuration information with the initial state being a deactivated state comprises identification information of at least one usable transmission path.

16. A terminal, comprising:

a first determining module, configured to determine at least two transmission paths usable for a radio bearer in a case that a packet data convergence protocol PDCP

duplication function of the radio bearer changes from an activated state to a deactivated state; and

a first transmitting module, configured to transmit PDCP data by using the at least two transmission paths;

wherein the first determining module is further configured to determine the at least two transmission paths usable for the radio bearer based on first configuration information;

wherein the first configuration information is configuration information with the PDCP duplication function of the radio bearer deactivated;

wherein the first configuration information comprises using a dual connectivity (DC) working mode for the radio bearer after deactivation of the PDCP duplication function;

wherein the first configuration information further comprises: configuration information of the DC working mode;

wherein the configuration information of the DC working mode comprises:

identification information of a primary transmission path used for the DC working mode; and

identification information of a secondary transmission path used for the DC working mode.

17. A communications device, comprising a memory, a processor, and a program stored in the memory and capable of running on the processor, wherein when the program is executed by the processor, the steps of the method for data transmission according to any one of claims 1 to 9 are implemented, or the steps of the method for information configuration according to any one of claims 10 to 15 are implemented.

18. A computer-readable storage medium, wherein a computer program is stored in the computer-readable storage medium, and when the computer program is executed by a processor, the steps of the method for data transmission according to any one of claims 1 to 9 are implemented, or the steps of the method for information configuration according to any one of claims 10 to 15 are implemented.