CLAIMS

1. A split bearer control method, applied to a terminal, wherein a target split bearer is configured for the terminal, a data duplication function is configured for the target split bearer, the target split bearer comprises N transmission paths, and N is a positive integer greater than 2; and the method comprises:

receiving split bearer indication signaling sent by a network-side device; and

activating or deactivating the data duplication function in response to the split bearer indication signaling;

wherein the split bearer indication signaling comprises second media access control control element MAC CE signaling that carries first indication information, and the first indication information is used to indicate activation or deactivation of the N transmission paths;

wherein the activating or deactivating the data duplication function in response to the split bearer indication signaling comprises:

after the terminal executes the second MAC CE signaling, if all the N transmission paths are deactivated or only one of the N transmission paths is activated, deactivating the data duplication function.

~~2. The method according to claim 1, wherein the split bearer indication signaling comprises radio resource control RRC signaling, and the RRC signaling is used to instruct the terminal to activate or deactivate the data duplication function.~~

~~3. The method according to claim 1, wherein the split bearer indication signaling comprises first media access control control element MAC CE signaling, and the first MAC CE signaling is used to instruct the terminal to activate or deactivate the data duplication function.~~

~~4. The method according to claim 1, wherein the split bearer indication signaling comprises second MAC CE signaling that carries first indication information, and the first indication information is used to indicate activation or deactivation of the N transmission paths; and~~

~~the activating or deactivating the data duplication function in response to the split bearer indication signaling comprises:~~

~~after the terminal executes the second MAC CE signaling, if all the N transmission paths are deactivated or one of the N transmission paths is activated, deactivating the data duplication function.~~

~~5. The method according to claim 1, wherein the split bearer indication signaling comprises third MAC CE signaling that carries second indication information, and the second~~

~~indication information is used to instruct the terminal to activate or deactivate the data duplication function.~~

~~6. The method according to claim 5, wherein in a case in which the terminal deactivates the data duplication function, the second indication information is further used to instruct the terminal to change an available transmission path among the N transmission paths.~~

~~7. The method according to claim 1, wherein the split bearer indication signaling comprises dedicated split bearer indication signaling that carries threshold indication information, and in a case in which the data duplication function is activated, the dedicated split bearer indication signaling is used to instruct the terminal to deactivate the data duplication function and determine, based on the threshold indication information, a split bearer threshold enabled for the target split bearer.~~

~~8. The method according to claim 7, wherein the dedicated split bearer indication signaling is MAC CE signaling or packet data convergence protocol PDCP signaling.~~

~~9. The method according to claim 8, wherein in a case in which the dedicated split bearer indication signaling is the MAC CE signaling, the dedicated split bearer indication signaling further comprises identification information, and the identification information is used to identify the target split bearer.~~

~~10. The method according to any one of claims 7 to 9, wherein the threshold indication information is third indication information, and the third indication information is used to indicate enabling or disabling of each split bearer threshold of the target split bearer.~~

~~11. The method according to any one of claims 7 to 9, wherein the threshold indication information is fourth indication information, and the fourth indication information is used to indicate that H split bearer thresholds are enabled, wherein H is a positive integer less than or equal to N.~~

~~12. The method according to claim 11, wherein the H split bearer thresholds are:~~

~~first H split bearer thresholds among split bearer thresholds of the target split bearer that are arranged in ascending order; or~~

~~last H split bearer thresholds among split bearer thresholds of the target split bearer that are arranged in descending order.~~

~~13~~2. The method according to ~~any one of claims 2 to 4~~ claim 1, wherein after the terminal deactivates the data duplication function, the method further comprises:

determining, based on split bearer thresholds of the target split bearer and association relationships between the split bearer thresholds and transmission paths, a transmission path for transmitting uplink transmission data among the N transmission paths.

~~14. The method according to claim 2 or 3, wherein after the terminal activates the data duplication function, the method further comprises:~~

of the target split bearer is configured in the terminal, the configuration information is sent by the network-side device to the terminal, and the configuration information comprises at least one of the following:

~~performing the data duplication function based on an available transmission path of the target split bearer configured by the network-side device.~~

3. The split bearer control method according to claim 1, wherein configuration information of the target split bearer is configured in the terminal, the configuration information is sent by the network-side device to the terminal, and the configuration information comprises at least one of the following:

a split bearer identifier;

configuration information of N radio link control RLC entities associated with the split bearer, wherein the N RLC entities belong to different cell groups;

at least one split bearer threshold; or,

association relationships between split bearer thresholds and transmission paths.

4. The split bearer control method according to claim 3, wherein the association relationships between the split bearer thresholds and transmission paths comprise the following information:

each split bearer threshold corresponds to one or more transmission paths, wherein a quantity of transmission paths corresponding to each split bearer threshold is less than N.

5. The split bearer control method according to claim 1, wherein the second MAC CE signaling comprises a cell group identifier and a logical channel identity.

6. The split bearer control method according to claim 1, wherein the second MAC CE signaling comprises a first field used to identify the target split bearer, and a second field used to indicate a status of a transmission path whose sequence number is i in the target split bearer, where i is an integer greater than or equal to 0 and less than or equal to N.

7. The split bearer control method according to claim 6, wherein in a case that the first field identifies the target split bearer, and a value of the second field is "1", the transmission path whose sequence number is i in the target split bearer is in an activated state; or

in a case that the first field identifies the target split bearer, and a value of the second field is "0", the transmission path whose sequence number is i in the target split bearer is in a deactivated state.

~~15~~8. A split bearer control method, applied to a network-side device and comprising:

sending split bearer indication signaling to a terminal, wherein the split bearer indication

signaling is used to instruct the terminal to activate or deactivate a data duplication function in response to the split bearer indication signaling, wherein

a target split bearer is configured for the terminal, the data duplication function is configured for the target split bearer, and the target split bearer comprises N transmission paths;

wherein the split bearer indication signaling comprises second media access control control element MAC CE signaling that carries first indication information, and the first indication information is used to indicate activation or deactivation of the N transmission paths, wherein after the terminal executes the second MAC CE signaling, if all the N transmission paths are deactivated or only one of the N transmission paths is activated, the terminal deactivates the data duplication function.

~~16. The method according to claim 15, wherein the split bearer indication signaling comprises RRC signaling, and the RRC signaling is used to instruct the terminal to activate or deactivate the data duplication function.~~

~~17. The method according to claim 15, wherein the split bearer indication signaling comprises first MAC CE signaling, and the first MAC CE signaling is used to instruct the terminal to activate or deactivate the data duplication function.~~

~~18. The method according to claim 15, wherein the split bearer indication signaling comprises second MAC CE signaling that carries first indication information, and the first indication information is used to indicate activation or deactivation of the N transmission paths, wherein~~

~~after the terminal executes the second MAC CE signaling, if all the N transmission paths are deactivated or one of the N transmission paths is activated, the terminal deactivates the data duplication function.~~

~~19. The method according to claim 15, wherein the split bearer indication signaling comprises third MAC CE signaling that carries second indication information, and the second indication information is used to instruct the terminal to activate or deactivate the data duplication function.~~

~~20. The method according to claim 15, wherein the split bearer indication signaling comprises dedicated split bearer indication signaling that carries threshold indication information, and in a case in which the data duplication function is activated, the dedicated split bearer indication signaling is used to instruct the terminal to deactivate the data duplication function and determine, based on the threshold indication information, a split bearer threshold enabled for the target split bearer.~~

9. The split bearer control method according to claim 8, wherein configuration information

of the target split bearer is configured in the terminal, the configuration information is sent by the network-side device to the terminal, and the configuration information comprises at least one of the following:

a split bearer identifier;

configuration information of N radio link control RLC entities associated with the split bearer, wherein the N RLC entities belong to different cell groups;

at least one split bearer threshold; or,

association relationships between split bearer thresholds and transmission paths.

10. The split bearer control method according to claim 9, wherein the association relationships between the split bearer thresholds and transmission paths comprise the following information:

each split bearer threshold corresponds to one or more transmission paths, wherein a quantity of transmission paths corresponding to each split bearer threshold is less than N.

11. The split bearer control method according to claim 8, wherein the second MAC CE signaling comprises a cell group identifier and a logical channel identity.

12. The split bearer control method according to claim 8, wherein the second MAC CE signaling comprises a first field used to identify the target split bearer, and a second field used to indicate a status of a transmission path whose sequence number is i in the target split bearer, where i is an integer greater than or equal to 0 and less than or equal to N.

13. The split bearer control method according to claim 12, wherein in a case that the first field identifies the target split bearer, and a value of the second field is "1", the transmission path whose sequence number is i in the target split bearer is in an activated state; or

in a case that the first field identifies the target split bearer, and a value of the second field is "0", the transmission path whose sequence number is i in the target split bearer is in a deactivated state.

~~21~~14. A terminal, wherein a target split bearer is configured for the terminal, a data duplication function is configured for the target split bearer, the target split bearer comprises N transmission paths, and N is a positive integer greater than 2; and the terminal comprises:

a receiving module, configured to receive split bearer indication signaling sent by a network-side device; and

a control module, configured to activate or deactivate the data duplication function in response to the split bearer indication signaling;

wherein the split bearer indication signaling comprises second media access control control element MAC CE signaling that carries first indication information, and the first

indication information is used to indicate activation or deactivation of the N transmission paths; and

wherein the control module is configured to:

after the terminal executes the second MAC CE signaling, if all the N transmission paths are deactivated or only one of the N transmission paths is activated, deactivate the data duplication function.

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

a determining module, configured to determine, based on split bearer thresholds of the target split bearer and association relationships between the split bearer thresholds and transmission paths, a transmission path for transmitting uplink transmission data among the N transmission paths.

16. The terminal according to claim 14, wherein configuration information of the target split bearer is configured in the terminal, the configuration information is sent by the network-side device to the terminal, and the configuration information comprises at least one of the following:

a split bearer identifier;

configuration information of N radio link control RLC entities associated with the split bearer, wherein the N RLC entities belong to different cell groups;

at least one split bearer threshold; or,

association relationships between split bearer thresholds and transmission paths.

17. The terminal according to claim 16, wherein the association relationships between the split bearer thresholds and transmission paths comprise the following information:

each split bearer threshold corresponds to one or more transmission paths, wherein a quantity of transmission paths corresponding to each split bearer threshold is less than N.

18. The terminal according to claim 14, wherein the second MAC CE signaling comprises a cell group identifier and a logical channel identity.

19. The terminal according to claim 14, wherein the second MAC CE signaling comprises a first field used to identify the target split bearer, and a second field used to indicate a status of a transmission path whose sequence number is i in the target split bearer, where i is an integer greater than or equal to 0 and less than or equal to N.

20. The terminal according to claim 19, wherein in a case that the first field identifies the target split bearer, and a value of the second field is "1", the transmission path whose sequence number is i in the target split bearer is in an activated state; or

in a case that the first field identifies the target split bearer, and a value of the second field

is "0", the transmission path whose sequence number is i in the target split bearer is in a deactivated state.

~~22~~21. A network-side device, comprising:

a sending module, configured to send split bearer indication signaling to a terminal, wherein the split bearer indication signaling is used to instruct the terminal to activate or deactivate a data duplication function in response to the split bearer indication signaling, wherein

a target split bearer is configured for the terminal, the data duplication function is configured for the target split bearer, and the target split bearer comprises N transmission paths;

wherein the split bearer indication signaling comprises second media access control control element MAC CE signaling that carries first indication information, and the first indication information is used to indicate activation or deactivation of the N transmission paths, wherein after the terminal executes the second MAC CE signaling, if all the N transmission paths are deactivated or only one of the N transmission paths is activated, the terminal deactivates the data duplication function.

22. The network-side device according to claim 21, wherein configuration information of the target split bearer is configured in the terminal, the configuration information is sent by the network-side device to the terminal, and the configuration information comprises at least one of the following:

a split bearer identifier;

configuration information of N radio link control RLC entities associated with the split bearer, wherein the N RLC entities belong to different cell groups;

at least one split bearer threshold; or,

association relationships between split bearer thresholds and transmission paths.