WHAT IS CLAIMED IS:

1. A method for transmitting data, applied to a first communication terminal, comprising:

generating a plurality of first data frames based on a same type of data content, wherein the plurality of first data frames have a same traffic identifier (TID), and the plurality of first data frames having the same TID have a same access media priority in a plurality of transmission links; and

transmitting the plurality of first data frames having the same TID using the plurality of transmission links.

2. The method of claim 1, wherein transmitting the plurality of first data frames having the same TID using the plurality of transmission links comprises:

in response to a transmission link switching condition being satisfied, stopping transmitting the first data frame using a first transmission link in the pre-configured plurality of transmission links, and transmitting the first data frame using a second transmission link in the plurality of transmission links.

3. The method of claim 2, wherein before transmitting the first data frame using the second transmission link in the plurality of transmission links, the method further comprises:

transmitting a second data frame using the first transmission link; wherein

the second data frame comprises frequency band information configured to indicate a frequency band of the second transmission link.

4. The method of claim 3, wherein the frequency band information is located at a first preset position in a quality of service (QoS) field of a media access control (MAC) frame header of the second data frame.

5. The method of claim 2, wherein the transmission link switching condition being satisfied comprises one of:

a load of the first transmission link being greater than a load threshold; and

a communication quality of the first transmission link being less than a quality threshold.

6. The method of any one of claims 2 to 5, wherein before in response to the transmission link switching condition being satisfied, stopping transmitting the first data frame using he first transmission link in the pre-configured plurality of transmission links, and transmitting the first data frame using the second transmission link in the plurality of transmission links,

the method further comprises:

receiving a third data frame or a management frame transmitted by a second communication terminal, wherein the third data frame or the management frame carries multi-transmission link switching capability information;

in response to the transmission link switching condition being satisfied, stopping transmitting the first data frame using the first transmission link in the pre-configured plurality of transmission links, and transmitting the first data frame using the second transmission link in the plurality of transmission links, comprises:

in response to the multi-transmission link switching capability information indicating that the second communication terminal has a capability of switching the transmission link to transmit data frames, and in response to the transmission link switching condition being satisfied, stopping transmitting the first data frame using the first transmission link in the pre-configured plurality of transmission links, and transmitting the first data frame using the second transmission link in the plurality of transmission links.

7. The method of any one of claims 1 to 5, wherein

the first data frame further comprises frame type identification information;

the frame type identification information is configured to indicate whether the first data frame is an aggregated data frame transmitted using the plurality of transmission links.

8. The method of claim 7, wherein the frame type identification information is located at a second preset position in a QoS field of a MAC frame header of the first data frame.

9. The method of any one of claims 1 to 5, wherein the TID is located at a third preset position in a QoS field of a MAC frame header of the first data frame.

10. The method of any one of claims 1 to 5, wherein transmitting the plurality of first data frames having the same TID using the plurality of transmission links comprises at least one of:

transmitting the plurality of first data frames having the same TID using independent multi-link aggregation transmission; and

transmitting the plurality of first data frames having the same TID using simultaneous multi-link aggregation transmission.

11. A method for transmitting data, applied to a second communication terminal,

comprising:

receiving a plurality of first data frames having a same traffic identifier (TID) transmitted by a first communication terminal using a plurality of transmission links, wherein the plurality of first data frames are generated based on a same type of data content, and the plurality of first data frames having the same TID have a same access media priority in each transmission link.

12. The method of claim 11, wherein receiving the plurality of first data frames having the same TID transmitted by the first communication terminal using the plurality of transmission links comprises:

receiving the first data frame using a second transmission link in the plurality of transmission links, wherein the first data frame is preconfigured to be transmitted using a first transmission link in the plurality of transmission links.

13. The method of claim 12, wherein before receiving the first data frame using the second transmission link in the plurality of transmission links, the method further comprises:

receiving a second data frame transmitted using the first transmission link; wherein

the second data frame comprises frequency band information configured to indicate a frequency band of the second transmission link.

14. The method of claim 13, wherein the frequency band information is located at a first preset position in a QoS field of a MAC frame header of the second data frame.

15. The method of any one of claims 12 to 14, wherein before receiving the data frame using the second transmission link, the method further comprises:

transmitting a management frame or a third data frame to the first communication terminal, wherein the management frame or the third data frame transmitted to the first communication terminal carries multi-transmission link switching capability information;

wherein the multi-transmission link switching capability information is configured to indicate whether the second communication terminal has a capability of switching the transmission link to transmit the data frames.

16. The method of any one of claims 11 to 14, further comprising:

obtaining frame type identification information contained in the first data frame; and

combining and decoding the plurality of received first data frames in response to the

frame type identification information indicating that the first data frame is an aggregated data frame transmitted using the plurality of transmission links.

17. The method of claim 16, wherein the frame type identification information is located at a second preset position in a QoS of a MAC frame header of the first data frame.

18. The method of any one of claims 11 to 14, wherein the TID is located at a third preset position in a QoS field of a MAC frame header of the first data frame.

19. The method of any one of claims 11 to 14, wherein receiving the plurality of first data frames having the same TID transmitted by the first communication terminal using the plurality of transmission links comprises at least one of:

receiving the plurality of first data frames having the same TID transmitted by the first communication terminal using independent multi-link aggregation transmission; and

receiving the plurality of first data frames having the same TID transmitted by the first communication terminal using simultaneous multi-link aggregation transmission.

20. A communication device, comprising a processor, a memory and executable programs stored in the memory and capable of being run by the processor, wherein when the processor runs the executable programs, the method for transmitting data according to any one of claims 1-10 or claims 11-19 is implemented.