CLAIMS

What is claimed is:

1. A data transmission method, applied to a terminal which establishes a communication connection with a correspondent node through a first link provided by a cellular network and a second link provided by a Wireless Local Area Network (WLAN) respectively, and the method comprising:

acquiring relevant information of the WLAN which is accessed by the terminal, the relevant information of the WLAN being used to indicate a data distribution capability of the WLAN;

characterized by

acquiring a current amount of data in an uplink buffer that is configured to store the uplink data;

determining the amount of the data to be transmitted to the correspondent node by means of the second link in accordance with the relevant information of the WLAN and the current amount of data;

transmitting, according to the amount of the data to be transmitted by means of the second link, the uplink data to the correspondent node by means of the second link; and

sending a Buffer Status Report (BSR) to a base station in the cellular network, wherein the BSR comprises a difference value between the current amount of data and the amount of the data to be transmitted by means of the second link.

2. The method according to claim 1, wherein the relevant information of the WLAN comprises at least one of a version number of the WLAN, a Received Signal Strength Indication, RSSI, of the WLAN, an available channel utilization of the WLAN, a Basic Service Set, BSS, load of the WLAN and the number of stations, STA, accessed in the WLAN.

3. The method according to claim 1 or 2, further comprising:

acquiring a network status; and

adjusting the amount of data to be transmitted by one of the first link and the second link in accordance with the network status.

4. The method according to claim 3, wherein the network status comprises at least one of

the link quality of the first link, the link quality of the second link, the load condition of the cellular network and the load condition of the WLAN.

5. A data transmission device, applied to a terminal which establishes a communication connection with a correspondent node through a first link provided by a cellular network and a second link provided by a Wireless Local Area Network (WLAN) respectively, and the device comprising:

a first acquisition module configured to acquire relevant information of the WLAN which is accessed by the terminal, the relevant information of the WLAN being used to indicate a data distribution capability of the WLAN;

a determination module configured to acquire a current amount of data in an uplink buffer that is configured to store the uplink data; determine the amount of the data to be transmitted to the correspondent node by means of the second link in accordance with the relevant information of the WLAN and the current amount of data;

transmit, according to the amount of the data to be transmitted by means of the second link, the uplink data to the correspondent node by means of the second link; and send a Buffer Status Report, BSR, to a base station in the cellular network, wherein the BSR comprises a difference value between the current amount of data and the amount of the data to be transmitted by means of the second link.

6. The device according to claim 5, wherein the relevant information of the WLAN comprises at least one of a version number of the WLAN, a Received Signal Strength Indication RSSI of the WLAN, an available channel utilization of the WLAN, a Basic Service Set BSS load of the WLAN and the number of stations STA accessed in the WLAN.

7. The device according to claim 5 or 6, further comprising:

a second acquisition module configured to acquire a network status; and

an adjusting module configured to adjust the amount of data to be transmitted by one of the first link and the second link in accordance with the network status.

8. The device according to claim 7, wherein the network status comprises at least one of the link quality of the first link, the link quality of the second link, the load condition of the cellular network and the load condition of the WLAN.

9. A terminal establishing a communication connection with a correspondent node through a first link provided by a cellular network and a second link provided by a Wireless Local Area Network (WLAN)respectively, and comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

acquire relevant information of the WLAN which is accessed by the terminal, the relevant information of the WLAN is used to indicate a data distribution capability of the WLAN;

acquire a current amount of data in an uplink buffer that is configured to store the uplink data;

determine the amount of the data to be transmitted to the correspondent node by means of the second link in accordance with the relevant information of the WLAN and the current amount of data;

transmit, according to the amount of the data to be transmitted by means of the second link, the uplink data to the correspondent node by means of the second link; and

send a Buffer Status Report, BSR, to a base station in the cellular network, wherein the BSR comprises a difference value between the current amount of data and the amount of the data to be transmitted by means of the second link.

10. The terminal according to claim 9, wherein the relevant information of the WLAN comprises at least one of a version number of the WLAN, a Received Signal Strength Indication, RSSI, of the WLAN, an available channel utilization of the WLAN, a Basic Service Set, BSS, load of the WLAN and the number of stations, STA, accessed in the WLAN.

11. The terminal according to claim 9 or 10, wherein the processor is further configured to:

acquire a network status; and

adjust the amount of data to be transmitted by one of the first link and the second link in accordance with the network status.

12. The terminal according to claim 11, wherein the network status comprises at least one of the link quality of the first link, the link quality of the second link, the load condition of the

cellular network and the load condition of the WLAN.

13. A computer storage medium for storing at least one instruction, at least one program, a code set or an instruction set, and the at least one instruction, the at least one program, the code set or the instruction set being loaded and executed by a processor to implement a method comprising:

acquiring relevant information of the WLAN which is accessed by a terminal, the relevant information of the WLAN being used to indicate a data distribution capability of the WLAN;

characterized by

acquiring a current amount of data in an uplink buffer that is configured to store the uplink data;

determining the amount of the data to be transmitted to the correspondent node by means of the second link in accordance with the relevant information of the WLAN and the current amount of data;

transmitting, according to the amount of the data to be transmitted by means of the second link, the uplink data to the correspondent node by means of the second link; and

sending a Buffer Status Report, BSR, to a base station in the cellular network, wherein the BSR comprises a difference value between the current amount of data and the amount of the data to be transmitted by means of the second link.

14. The computer storage medium according to claim 13, wherein the relevant information of the WLAN comprises at least one of a version number of the WLAN, a Received Signal Strength Indication, RSSI, of the WLAN, an available channel utilization of the WLAN, a Basic Service Set, BSS, load of the WLAN and the number of stations, STA, accessed in the WLAN.

15. The computer storage medium according to claim 13, wherein the method further comprises:

acquiring a network status; and

adjusting the amount of data to be transmitted by one of the first link and the second link in accordance with the network status.