

CLAIMS

1. A power control method for a link, comprising:
 - receiving, by User Equipment (UE), a message from a network side, the message containing adjustment information for instructing the UE to adjust uplink transmit power;
 - analyzing, by the UE, the message to acquire the adjustment information, and extracting a adjustment strategy associated with the adjustment information according to the adjustment information; and
 - adjusting, by the UE, the uplink transmit power according to the adjustment strategy,
 - wherein the adjustment information comprises a first pathloss coefficient and a second pathloss coefficient respectively corresponding to two types of UEs, one type being UEs for which beam correspondence is true and another type being UEs for which the beam correspondence is not true, to enable the UE to automatically select the pathloss coefficient suitable for the type of the UE itself.
2. The method of claim 1, wherein the adjustment information further comprises one or any combination of:
 - an adjusted power value, a power adjustment range, a power adjustment list, initial received power, and pathloss information.
3. The method of claim 2, wherein when the adjustment information comprises the adjusted power value, the method further comprises:
 - determining a power control manner according to the adjusted power value;
 - wherein adjusting, by the UE, the uplink transmit power according to the adjustment strategy is implemented as follows:
 - controlling, by the UE, the uplink transmit power of the UE according to the power adjustment list in the power control manner.
4. The method of claim 3, wherein the power adjustment list is configured in a pre-

configuration manner or the power adjustment list is carried in the message.

5. The method of claim 1, further comprising:

determining a power control manner according to the first and second pathloss coefficients;

wherein adjusting, by the UE, the uplink transmit power according to the adjustment strategy is implemented as follows:

calculating the uplink transmit power by use of the first pathloss coefficient or second pathloss coefficient corresponding to the type of the UE.

6. The method of claim 2, wherein when the adjustment information comprises the pathloss information, the method further comprises:

determining a power control manner according to the pathloss information;

wherein adjusting, by the UE, the uplink transmit power according to the adjustment strategy is implemented as follows:

determining, by the UE, a selected pathloss adjustment value for calculation of a transmit power according to the pathloss information, and calculating the transmit power according to the selected pathloss adjustment value.

7. The method of claim 6, wherein

when the pathloss information is a pathloss adjustment value list, determining, by the UE, the selected pathloss adjustment value for calculation of the transmit power according to the pathloss information is implemented as follows:

selecting, by the UE, a value from the pathloss adjustment value list as the selected pathloss adjustment value;

or,

when the pathloss information is a pathloss adjustment value range, determining, by the UE, the selected pathloss adjustment value for calculation of the transmit power according to the pathloss information is implemented as follows:

selecting, by the UE, a value from the pathloss adjustment value range as the selected pathloss adjustment value.

8. A power control device for a link, arranged in User Equipment (UE) and comprising:

a receiving unit, configured to receive a message from a network side, the message containing adjustment information for instructing the UE to adjust uplink transmit power; and

a processing unit, configured to analyze the message to acquire the adjustment information, extract a adjustment strategy associated with the adjustment information according to the adjustment information and adjust the uplink transmit power according to the adjustment strategy,

wherein the adjustment information comprises a first pathloss coefficient and a second pathloss coefficient respectively corresponding to two types of UEs, one type being UEs for which beam correspondence is true and another type being UEs for which the beam correspondence is not true, to enable the UE to automatically select the pathloss coefficient suitable for the type of the UE itself.

9. The device of claim 8, wherein the adjustment information further comprises one or any combination of:

an adjusted power value, a power adjustment range, a power adjustment list, initial received power, and pathloss information.

10. The device of claim 9, wherein

the processing unit is configured to, when the adjustment information comprises the adjusted power value, determine a power control manner according to the adjusted power value and control the uplink transmit power of the UE according to the power adjustment list in the power control manner.

11. The device of claim 9, wherein

the processing unit is further configured to, when the adjustment information comprises the initial received power, the initial received power comprising first initial received power and second initial received power, determine the power control manner according to the initial received power, acquire information of the UE, and calculate an uplink transmit power of the UE according to the information of the UE by use of the first initial received power or second initial received power corresponding to the information of the UE, the information of the UE being a type of the UE, a configuration of the UE or a service type of the UE.

12. The device of claim 9, wherein the processing unit is further configured to determine a power control manner according to the first and second pathloss coefficients, and calculate the uplink transmit power of the UE by use of the first pathloss coefficient or second pathloss coefficient corresponding to the type of the UE.

13. The device of claim 9, wherein

the processing unit is configured to, when the adjustment information comprises the pathloss information, determine a power control manner according to the pathloss information, determine a selected pathloss adjustment value for calculation of a transmit power according to the pathloss information and calculate the transmit power according to the selected pathloss adjustment value.

14. The device of claim 13, wherein

the processing unit is further configured to, when the pathloss information is a pathloss adjustment value list, select a value from the pathloss adjustment value list as the selected pathloss adjustment value.

15. The device of claim 11, wherein

the processing unit is further configured to, when the pathloss information is a pathloss adjustment value range, select a value from the pathloss adjustment value range as the selected pathloss adjustment value.