

CLAIMS

1. A power control method for a link, comprising:
 - 5 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
10 to the adjustment information; and
adjusting, by the UE, the uplink transmit power according to the adjustment strategy.
2. The method of claim 1, wherein the adjustment information is one or any
15 combination of:
an adjusted power value, a power adjustment range, a power adjustment list, initial received power, pathloss information and a pathloss coefficient.
3. The method of claim 2, wherein
 - 20 in a case that the adjustment information is the adjusted power value, extracting the adjustment strategy associated with the adjustment information according to the adjustment information is implemented as follows:
determining a power control manner according to the adjusted power value;
and
25 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.
- 30 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 2, wherein
in a case that the adjustment information is the pathloss coefficient, the pathloss

coefficient comprising a first pathloss coefficient and a second pathloss coefficient, extracting the adjustment strategy associated with the adjustment information according to the adjustment information is implemented as follows: determining the power control manner according to the pathloss coefficient; and

5 adjusting, by the UE, the uplink transmit power according to the adjustment strategy is implemented as follows: acquiring, by the UE, information of the UE, and calculating the uplink transmit power of the UE according to a type of the UE by use of the first pathloss coefficient or second pathloss coefficient corresponding to the information of the UE,

10 the information of the UE being the type of the UE, a configuration of the UE or a service type of the UE.

6. The method of claim 2, wherein

15 in a case that in a case that the adjustment information is the pathloss information, extracting the adjustment strategy associated with the adjustment information according to the adjustment information is implemented as follows:

determining the power control manner according to the pathloss information; and

20 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.

25 7. The method of claim 6, wherein

in a case that 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:

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

or,

in a case that 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.

5 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

10 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.

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

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

20 10. The device of claim 9, wherein
the processing unit is configured to, in a case that the adjustment information is 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;

or,

25 the processing unit is configured to, responsive to determining to adjust the uplink transmit power according to an accumulated value of the adjusted power value, adjust the uplink transmit power of the UE according to the accumulated value in the power control manner;

or,

30 the processing unit is further configured to, in a case that the adjustment information is 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;

5 or,

 the processing unit is further configured to, in a case that the adjustment information is the pathloss coefficient, the pathloss coefficient comprising a first pathloss coefficient and a second pathloss coefficient, determine the power control manner according to the pathloss coefficient, acquire the information of the UE and
10 calculate the uplink transmit power of the UE according to a type of the UE by use of the first pathloss coefficient or second pathloss coefficient corresponding to the information of the UE, the information of the UE being the type of the UE, a configuration of the UE or a service type of the UE.

15 11. The device of claim 9, wherein

 the processing unit is configured to, in a case that the adjustment information is the pathloss information, determine the 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
20 according to the selected pathloss adjustment value.

12. The device of claim 11, wherein

 the processing unit is further configured to, in a case that the pathloss information is a pathloss adjustment value list, select a value from the pathloss
25 adjustment value list as the selected pathloss adjustment value.

13. The device of claim 12, wherein

 the processing unit is further configured to randomly select a value from the pathloss adjustment value list as the selected pathloss adjustment value, or extract a
30 value from the pathloss adjustment value list according to information of the UE as the selected pathloss adjustment value,

 the information of the UE being a type of the UE, a configuration of the UE or a service type of the UE.

14. The device of claim 11, wherein

the processing unit is further configured to, in a case that the pathloss information is a pathloss adjustment value range, select, by the UE, a value from the pathloss adjustment value range as the selected pathloss adjustment value.

15. The device of claim 14, wherein

the processing unit is further configured to randomly select a value from the pathloss adjustment value range as the selected pathloss adjustment value, or extract a value from the pathloss adjustment value range according to information of the UE as the selected pathloss adjustment value,

the information of the UE being a type of the UE, a configuration of the UE or a service type of the UE.

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