CLAIMS

What is claimed is:

1. A capability parameter determining method applied to a terminal, wherein a connection link of the terminal comprises a first link and a second link, the first link is a frequency division duplex FDD link, and the method comprises:

determining, based on a first maximum transmit power and a first maximum uplink duty cycle, a second maximum uplink duty cycle of the terminal at a second maximum transmit power;

wherein the first maximum transmit power and the first maximum uplink duty cycle both are capability parameters of the terminal on the first link, and the first maximum uplink duty cycle is a predefined capability parameter; and the second maximum transmit power and the second maximum uplink duty cycle both are capability parameters of the terminal on the second link;

wherein the capability parameters of the terminal on the first link are present in N groups, and each group of the capability parameters comprise one first maximum transmit power and one first maximum uplink duty cycle, wherein N is an integer greater than 1; and

the determining, based on a first maximum transmit power and a first maximum uplink duty cycle, a second maximum uplink duty cycle of the terminal at a second maximum transmit power comprises:

determining, based on the first maximum transmit power and the first maximum uplink duty cycle in each group of the capability parameters, the second maximum uplink duty cycle of the terminal at the second maximum transmit power.

2. The method according to claim 1, wherein the determining, based on a first maximum transmit power and a first maximum uplink duty cycle, a second maximum uplink duty cycle of the terminal at a second maximum transmit power comprises:

determining, based on the first maximum transmit power, the first maximum uplink duty cycle, and a total radiation threshold, the second maximum uplink duty cycle of the terminal at the second maximum transmit power.

3. The method according to claim 1, wherein, if an uplink duty cycle scheduled by a network-side device for the first link is less than or equal to the first maximum uplink duty cycle and an uplink duty cycle scheduled by the network-side device for the second link is less than or equal to the second maximum uplink duty cycle, a sum of transmit powers of the terminal on the first link and the second link is less than or equal to a fifth maximum transmit power,

wherein the fifth maximum transmission power is less than or equal to a sum of a first maximum transmit power and a second maximum transmit power, the first maximum transmit power is a maximum transmit power of the terminal on the first link, and the second maximum transmit power is a maximum transmit power of the terminal on the second link.

4. The method according to claim 1, wherein, if an uplink duty cycle scheduled by a network-side device for the first link is greater than the first maximum uplink duty cycle or an uplink duty cycle scheduled by the network-side device for the second link is greater than the second maximum uplink duty cycle, a sum of transmit powers of the terminal on the first link and the second link is less than or equal to a sixth maximum transmit power,

wherein the sixth maximum transmission power is less than a sum of a first maximum transmit power and a second maximum transmit power, the first maximum transmit power is a maximum transmit power of the terminal on the first link, and the second maximum transmit power is a maximum transmit power of the terminal on the second link.

5. The method according to any one of claims 1 to 4, wherein the method further comprises:

reporting the second maximum uplink duty cycle.

6. The method according to any one of claims 1 to 4, wherein the first maximum uplink duty cycle is determined based on a technical performance parameter of the terminal or prescribed in a protocol; and/or,

wherein the second link is an FDD link or a time division duplex TDD link.

7. The method according to any one of claims 1 to 4, wherein the method is applicable to at least one of the following scenarios:

4G FDD-TDD dual connectivity ENDC;

5G FDD-TDD dual connectivity ENDC;

4G FDD-FDD dual connectivity ENDC;

5G FDD-FDD dual connectivity ENDC;

5G FDD-TDD uplink carrier aggregation;

5G FDD-FDD uplink carrier aggregation;

4G FDD-TDD uplink carrier aggregation;

4G FDD-FDD uplink carrier aggregation;

5G FDD-TDD supplementary uplink SUL; and

5G FDD-FDD supplementary uplink SUL.

8. An uplink scheduling method, applied to a network-side device, wherein the method comprises:

performing, based on a first maximum uplink duty cycle and a second maximum uplink duty cycle of a terminal, uplink scheduling for the terminal on a first link and a second link respectively;

wherein the first link is a frequency division duplex FDD link, the first maximum uplink duty cycle is a capability parameter of the terminal on the first link, and the first maximum uplink duty cycle is a predetermined capability parameter; and the second maximum uplink duty cycle is a capability parameter of the terminal on the second link;

wherein the method further comprises:

receiving N second maximum uplink duty cycles reported by the terminal;

wherein each of the N second maximum uplink duty cycles is determined at the second maximum transmit power based on the first maximum transmit power and the first maximum uplink duty cycle in each group of the capability parameters;

wherein the capability parameters of the terminal on the first link are present in N groups, and each group of the capability parameters comprise one first maximum transmit power and one first maximum uplink duty cycle, wherein N is an integer greater than 1.

9. A terminal, wherein a connection link of the terminal comprises a first link and a second link, the first link is a frequency division duplex FDD link, and the terminal comprises:

a determining module, configured to determine, based on a first maximum transmit power and a first maximum uplink duty cycle, a second maximum uplink duty cycle of the terminal at a second maximum transmit power;

wherein the first maximum transmit power and the first maximum uplink duty cycle both are capability parameters of the terminal on the first link, and the first maximum uplink duty cycle is a predefined capability parameter; and the second maximum transmit power and the second maximum uplink duty cycle both are capability parameters of the terminal on the second link;

wherein the capability parameters of the terminal on the first link are present in N groups, and each group of the capability parameters comprise one first maximum transmit power and one first maximum uplink duty cycle, wherein N is an integer greater than 1; and

the determining module is specifically configured to:

determine, based on the first maximum transmit power and the first maximum uplink duty cycle in each group of the capability parameters, the second maximum uplink duty cycle of the terminal at the second maximum transmit power.

10. The terminal according to claim 9, wherein the determining module is specifically configured to:

determine, based on the first maximum transmit power, the first maximum uplink duty cycle, and a total radiation threshold, the second maximum uplink duty cycle of the terminal at the second maximum transmit power.

11. The terminal according to claim 9, wherein, if an uplink duty cycle scheduled by a network-side device for the first link is less than or equal to the first maximum

uplink duty cycle and an uplink duty cycle scheduled by the network-side device for the second link is less than or equal to the second maximum uplink duty cycle, a sum of transmit powers of the terminal on the first link and the second link is less than or equal to a fifth maximum transmit power,

wherein the fifth maximum transmission power is less than or equal to a sum of a first maximum transmit power and a second maximum transmit power, the first maximum transmit power is a maximum transmit power of the terminal on the first link, and the second maximum transmit power is a maximum transmit power of the terminal on the second link.

12. The terminal according to claim 9, wherein, if an uplink duty cycle scheduled by a network-side device for the first link is greater than the first maximum uplink duty cycle or an uplink duty cycle scheduled by the network-side device for the second link is greater than the second maximum uplink duty cycle, a sum of transmit powers of the terminal on the first link and the second link is less than or equal to a sixth maximum transmit power,

wherein the sixth maximum transmission power is less than a sum of a first maximum transmit power and a second maximum transmit power, the first maximum transmit power is a maximum transmit power of the terminal on the first link, and the second maximum transmit power is a maximum transmit power of the terminal on the second link.

13. The terminal according to any one of claims 9 to 12, further comprising:

a reporting module, configured to report the second maximum uplink duty cycle.

14. A network-side device, comprising:

an uplink scheduling module, configured to perform, based on a first maximum uplink duty cycle and a second maximum uplink duty cycle of a terminal, uplink scheduling for the terminal on a first link and a second link respectively;

wherein the first link is a frequency division duplex FDD link, the first maximum uplink duty cycle is a capability parameter of the terminal on the first link, and the first maximum uplink duty cycle is a predetermined capability parameter; and the second maximum uplink duty cycle is a capability parameter of the terminal on the second link;

wherein the network-side device further comprises:

a receiving module, configured to receive N second maximum uplink duty cycles reported by the terminal;

wherein each of the N second maximum uplink duty cycles is determined at the second maximum transmit power based on the first maximum transmit power and the first maximum uplink duty cycle in each group of the capability parameters;

wherein the capability parameters of the terminal on the first link are present in N groups, and each group of the capability parameters comprise one first maximum transmit power and one first maximum uplink duty cycle, wherein N is an integer greater than 1.

15. A terminal, comprising: a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the capability parameter determining method according to any one of claims 1 to 7 are implemented.

16. A network-side device, comprising: a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the uplink scheduling method according to claim 8 are implemented.

17. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the steps of the capability parameter determining method according to any one of claims 1 to 7 are implemented; or the steps of the uplink scheduling method according to claim 8 are implemented.