

What is claimed is:

1. An information transmission method, applied to a network device, comprising:

 sending first indication information to a terminal, wherein the first indication information comprises at least one of:

 location area identity information of the network device;

 information of uplink and downlink configuration of the network device; and

 uplink resource control information, comprising at least one of: a quantity of uplink time domain resources, a quantity of uplink symbols, a quantity of uplink slots, an uplink symbol duty ratio, an uplink slot duty ratio, a maximum quantity of available uplink time domain resources of the terminal, a maximum quantity of available uplink symbols of the terminal, a maximum quantity of available uplink slots of the terminal, a maximum available uplink symbol duty ratio of the terminal, a maximum uplink slot duty ratio of the terminal, a maximum quantity of uplink time domain resources capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and a maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window;

 acquiring second indication information reported by the terminal,

 wherein the second indication information comprises at least one of:

 available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

2. The method according to claim 1, wherein the sending the first indication information to the terminal comprises:

sending the first indication information to the terminal through broadcast information; or

sending the first indication information to the terminal through a dedicated signaling.

3. The method according to claim 1, wherein

a first time window comprises at least one frame structure period; or

a first time window comprises at least one slot; or

a first time window comprises at least one sub-frame; or,

a first time window comprises at least one symbol; or

a first time window comprises at least one millisecond.

4. The method according to claim 1 or 3, wherein

a first time window is a predefined evaluation period;

the first time window is a time reference for the terminal to evaluate whether the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available uplink resource of the terminal in a case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available output power configured for the terminal in the case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

5. The method according to claim 1, further comprising: prior to acquiring the second indication information, acquiring second power class information of the terminal at the first working frequency band where the network device works;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information;

or

the method further comprises:

determining the maximum available output power configured for the terminal in the first time window, according to the second indication information reported by the terminal; or

determining first power class information of the terminal at a first working frequency band where the network device works, according to the second indication information reported by the terminal; or

determining, according to the second indication information reported by the terminal, at least one of the maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or

transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window;

wherein the further comprises:

sending, by the network device, a power adjustment value to the terminal;
wherein

in a case that the power adjustment value is applied to the terminal, a transmitting power of the terminal is less than or equal to a maximum available output power configured for the terminal; or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to a transmitting power value corresponding to a first power class of the terminal at a first working frequency band;
or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to the maximum available output power configured for the terminal in a case that the current uplink and downlink configuration of the network device is applied.

6. The method according to claim 1, further comprising:

in a case that a current uplink and downlink configuration of the network device is applied, determining a maximum available output power configured for the terminal in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s); or

in the case that the current uplink and downlink configuration of the network device is applied, determining at least one of a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of

the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal; or

determining first power class information of the terminal at a first working frequency band where the network device works; or

determining a maximum available output power configured for the terminal in the first time window; or

determining at least one of a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window;

wherein the method further comprises:

the network device performing an uplink resource scheduling or uplink transmission for the terminal;

wherein a duration of scheduled or transmitted resource is less than or equal to a maximum uplink duration capable of being scheduled or transmitted of the terminal; or

a quantity of slots of the scheduled or transmitted resource is less than or equal to a maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal; or

a quantity of uplink sub-frames of the scheduled or transmitted resource is less

than or equal to a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal; or

a quantity of uplink symbols of the scheduled or transmitted resource is less than or equal to a maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal; or

an uplink duration percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal; or

an uplink slot percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal; or

an uplink sub-frame percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal; or

an uplink symbol percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal.

7. An information transmission method, applied to a terminal, comprising:

receiving first indication information sent by a network device, wherein the first indication information comprises at least one of:

location area identity information of the network device;

information of current uplink and downlink configuration of the network device;

and

uplink resource control information, comprising at least one of: a quantity of uplink time domain resources, a quantity of uplink symbols, a quantity of uplink slots, an uplink symbol duty ratio, an uplink slot duty ratio, a maximum quantity of available uplink time domain resources of the terminal, a maximum quantity of available uplink symbols of the terminal, a maximum quantity of available uplink slots of the terminal, a maximum available uplink symbol duty ratio of the terminal, a maximum uplink slot duty ratio of the terminal, a maximum quantity of uplink time domain resources capable

of being scheduled or transmitted of the terminal, a maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and a maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window;

reporting second indication information to the network device,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal to ensure compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) in a first time window.

8. The method according to claim 7, wherein the receiving the first indication information sent by the network device comprises:

receiving the first indication information of the network device sent by the network device through broadcast information; or

receiving the first indication information of the network device sent by the network device through a dedicated signaling.

9. The method according to claim 7, wherein

a first time window comprises at least one frame structure period; or

a first time window comprises at least one slot; or

a first time window comprises at least one sub-frame; or,

a first time window comprises at least one symbol; or

a first time window comprises at least one millisecond.

10. The method according to claim 7 or 9, wherein

a first time window is a predefined evaluation period;

the first time window is a time range for the terminal to evaluate whether the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available uplink resource of the terminal in a case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available output power configured for the terminal in the case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

11. The method according to claim 7,

wherein the method further comprises:

prior to reporting the second indication information to the network device, sending, to the network device, second power class information of the terminal at the first working frequency band where the network device works;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class

information.

12. The method according to claim 7, further comprising:

determining, according to the first indication information, at least one of:

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal;

in a case that the current uplink and downlink configuration of the network device is applied, a maximum available output power configured for the terminal in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s); and

the maximum available output powers configured for the terminal in different uplink and downlink configurations, in the case that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met;

wherein the method further comprises:

reconfiguring a maximum available output power of the terminal, or controlling the terminal to perform a power back-off, or prohibiting a transmission of at least one piece of uplink information of the terminal; wherein the uplink information comprises: an uplink slot, or an uplink sub-frame, or an uplink symbol;

wherein the prohibiting the transmission of the at least one piece of uplink information of the terminal comprises:

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), determining, according to the first indication information, at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal;

in a case that an uplink duration scheduled by the network device for the terminal is greater than the maximum uplink duration capable of being scheduled or transmitted of the terminal or in a case that an uplink duration percentage scheduled by the network device for the terminal is greater than the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, prohibiting a data transmission on at least one uplink time unit; or

in a case that a resource quantity of uplink slots scheduled by the network device for the terminal is greater than a maximum resource quantity of uplink slots capable of being scheduled or transmitted of the terminal or in a case that an uplink slot percentage scheduled by the network device for the terminal is greater than the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, prohibiting a data transmission on a resource of at least one uplink slot; or

in a case that a resource quantity of uplink sub-frames scheduled by the network device for the terminal is greater than the maximum quantity of uplink sub-frame(s)

capable of being scheduled or transmitted of the terminal or in a case that an uplink sub-frame percentage scheduled by the network device for the terminal is greater than the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal, prohibiting a data transmission on a resource of at least one uplink sub-frame; or

in a case that a resource quantity of uplink symbols scheduled by the network device for the terminal is greater than the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal or in a case that an uplink symbol percentage scheduled by the network device for the terminal is greater than the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal, prohibiting a data transmission on a resource of at least one uplink symbol.

13. The method according to claim 7, further comprising:

in a case that a duration of scheduled or transmitted resource of the terminal is greater than the maximum uplink duration capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that a quantity of slots of scheduled or transmitted resource of the terminal is greater than the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that a quantity of uplink sub-frames of scheduled or transmitted resource of the terminal is greater than the maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that a quantity of uplink symbols of scheduled or transmitted resource of the terminal is greater than the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring,

by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink duration percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink slot percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink sub-frame percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink symbol percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window, reconfiguring, by the terminal, a maximum available output power of the terminal or performing a power back-off by the terminal;

wherein the method further comprises:

reporting a reconfigured maximum available output power of the terminal to the network device; or

in a case that scheduled uplink resource of the terminal in the first time window exceeds a first threshold, after the terminal performs the power back-off, a power value of the terminal is less than or equal to a maximum available output power configured for the terminal.

14. The method according to claim 7 or 11, further comprising:

in a case that the uplink symbol percentage scheduled or transmitted of the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, applying all requirements for the first power class to the supported power class;

or,

the method further comprises:

in a case that the uplink symbol percentage scheduled or transmitted of the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, lowering a lower limit of a maximum transmitting power configuration value of the terminal.

15. An information transmission method, applied to a terminal, comprising: sending second indication information to a network device,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

16. The method according to claim 15, wherein

a first time window comprises at least one frame structure period; or

a first time window comprises at least one slot; or

a first time window comprises at least one sub-frame; or,

a first time window comprises at least one symbol; or

a first time window comprises at least one millisecond.

17. The method according to claim 15 or 16, wherein

a first time window is a predefined evaluation period;

the first time window is a time range for the terminal to evaluate whether the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available uplink resource of the terminal in a case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available output power configured for the terminal in the case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

18. The method according to claim 15, further comprising:

prior to sending the second indication information to the network device, sending, to the network device, second power class information of the terminal at the first working frequency band where the network device works;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information.

19. The method according to claim 15 or 18, further comprising:

in a case that the uplink symbol percentage scheduled or transmitted of the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, applying all requirements for the

first power class to the supported power class;

or,

the method further comprises:

in a case that the uplink symbol percentage scheduled or transmitted of the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, lowering a lower limit of a maximum transmitting power configuration value of the terminal.

20. An information transmission method, applied to a network device, comprising:

receiving second indication information sent by a terminal,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

21. The method according to claim 20, wherein

a first time window comprises at least one frame structure period; or

a first time window comprises at least one slot; or
a first time window comprises at least one sub-frame; or,
a first time window comprises at least one symbol; or
a first time window comprises at least one millisecond.

22. The method according to claim 20 or 21, wherein a first time window is a predefined evaluation period;

the first time window is a time range for the terminal to evaluate whether the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available uplink resource of the terminal in a case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available output power configured for the terminal in the case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

23. The method according to claim 20, further comprising:

prior to receiving the second indication information sent by the terminal, receiving second power class information of the terminal at the first working frequency band where the network device works which is sent by the terminal;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information.

24. The method according to claim 20, further comprising:

the network device performing an uplink resource scheduling or an uplink transmission for the terminal;

a duration of scheduled or transmitted resource is less than or equal to the maximum uplink duration capable of being scheduled or transmitted of the terminal in

the first time window; or

a quantity of slots of scheduled or transmitted resource is less than or equal to the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal in the first time window; or

a quantity of uplink sub-frames of scheduled or transmitted resource is less than or equal to the maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal in the first time window; or

a quantity of uplink symbols of scheduled or transmitted resource is less than or equal to the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink duration percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink slot percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink sub-frame percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink symbol percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window;

or,

the method further comprises:

sending, by the network device, a power adjustment value to the terminal;
wherein

in a case that the power adjustment value is applied to the terminal, a transmitting power of the terminal is less than or equal to a maximum available output power configured for the terminal; or

in the case that the power adjustment value is applied to the terminal, the

transmitting power of the terminal is less than or equal to a transmitting power value corresponding to a first power class of the terminal at a first working frequency band;
or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to the maximum available output power configured for the terminal in a case that the current uplink and downlink configuration of the network device is applied.

25. A network device, comprising a processor and a transceiver, wherein the processor is configured to control the transceiver to:

send first indication information to a terminal, wherein the first indication information comprises at least one of:

location area identity information of the network device;

information of current uplink and downlink configuration of the network device;

and

uplink resource control information, comprising at least one of: a quantity of uplink time domain resources, a quantity of uplink symbols, a quantity of uplink slots, an uplink symbol duty ratio, an uplink slot duty ratio, a maximum quantity of available uplink time domain resources of the terminal, a maximum quantity of available uplink symbols of the terminal, a maximum quantity of available uplink slots of the terminal, a maximum available uplink symbol duty ratio of the terminal, a maximum uplink slot duty ratio of the terminal, a maximum quantity of uplink time domain resources capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and a maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window;

wherein the transceiver is further configured to acquire second indication information reported by the terminal,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

26. The network device according to claim 25, wherein the transceiver is further configured to: prior to acquiring the second indication information, acquire second power class information of the terminal at the first working frequency band where the network device works;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information;

or,

the processor is further configured to:

determine the maximum available output power configured for the terminal in

the first time window, according to the second indication information reported by the terminal; or

determine first power class information of the terminal at a first working frequency band where the network device works, according to the second indication information reported by the terminal; or

determine, according to the second indication information reported by the terminal, at least one of the maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window.

27. The network device according to claim 25 or 26, wherein the processor is further configured to:

perform an uplink resource scheduling or uplink transmission for the terminal;

wherein a duration of scheduled or transmitted resource is less than or equal to a maximum uplink duration capable of being scheduled or transmitted of the terminal; or

a quantity of slots of the scheduled or transmitted resource is less than or equal to a maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal; or

a quantity of uplink sub-frames of the scheduled or transmitted resource is less than or equal to a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal; or

a quantity of uplink symbols of the scheduled or transmitted resource is less than

or equal to a maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal; or

an uplink duration percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal; or

an uplink slot percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal; or

an uplink sub-frame percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal; or

an uplink symbol percentage of the scheduled or transmitted resource is less than or equal to a maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal.

28. The network device according to claim 25 or 26, wherein the processor is further configured to:

send a power adjustment value to the terminal; wherein

in a case that the power adjustment value is applied to the terminal, a transmitting power of the terminal is less than or equal to a maximum available output power configured for the terminal; or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to a transmitting power value corresponding to a first power class of the terminal at a first working frequency band; or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to the maximum available output power configured for the terminal in a case that the current uplink and downlink configuration of the network device is applied.

29. A terminal, comprising a processor and a transceiver, wherein the processor is configured to control the transceiver to:

receive first indication information sent by a network device, wherein the first indication information comprises at least one of:

location area identity information of the network device;

information of current uplink and downlink configuration of the network device;

and

uplink resource control information, comprising at least one of: a quantity of uplink time domain resources, a quantity of uplink symbols, a quantity of uplink slots, an uplink symbol duty ratio, an uplink slot duty ratio, a maximum quantity of available uplink time domain resources of the terminal, a maximum quantity of available uplink symbols of the terminal, a maximum quantity of available uplink slots of the terminal, a maximum available uplink symbol duty ratio of the terminal, a maximum uplink slot duty ratio of the terminal, a maximum quantity of uplink time domain resources capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, a maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and a maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window;

wherein the processor is further configured to:

control the transceiver to report second indication information to the network device,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of

the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

30. The terminal according to claim 29, wherein the transceiver is further configured to:

prior to reporting the second indication information to the network device, send, to the network device, second power class information of the terminal at the first working frequency band where the network device works;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information.

31. The terminal according to claim 29, wherein in a case that the first indication information comprises the location area identity information of the network device, the processor is further configured to:

determine, according to a country identity in the location area identity information of the network device, a country where the network device is located, and acquire the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) corresponding to the country; or

determine, according to a country identity and an operator identity in the location area identity information of the network device, a country and an operator where the network device is located, and acquire the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) corresponding to the country and the operator.

32. The terminal according to claim 29, wherein the processor is further configured to:

determine, according to the first indication information, at least one of:

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal;

in a case that the current uplink and downlink configuration of the network device is applied, a maximum available output power configured for the terminal in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s); and

the maximum available output powers configured for the terminal in different uplink and downlink configurations, in the case that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

33. The terminal according to claim 29, wherein the processor is further configured to:

in a case that a duration of scheduled or transmitted resource of the terminal is greater than the maximum uplink duration capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power

of the terminal or performing a power back-off by the terminal; or

in a case that a quantity of slots of scheduled or transmitted resource of the terminal is greater than the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that a quantity of uplink sub-frames of scheduled or transmitted resource of the terminal is greater than the maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that a quantity of uplink symbols of scheduled or transmitted resource of the terminal is greater than the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink duration percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink slot percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power back-off by the terminal; or

in a case that an uplink sub-frame percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power

back-off by the terminal; or

in a case that an uplink symbol percentage of scheduled or transmitted resource of the terminal is greater than the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window, reconfigure a maximum available output power of the terminal or performing a power back-off by the terminal.

34. The terminal according to claim 29 or 30, wherein the processor is further configured to:

in a case that an uplink symbol percentage scheduled or transmitted by the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, apply all requirements for the first power class to the supported power class;

or,

the processor is further configured to:

in a case that an uplink symbol percentage scheduled or transmitted by the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, lower a lower limit of a maximum transmitting power configuration value of the terminal.

35. A terminal, comprising a processor and a transceiver, wherein the processor is configured to control the transceiver to:

send second indication information to a network device,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or

transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

36. The terminal according to claim 35, wherein

a first time window is a predefined evaluation period;

a first time window is a time range for the terminal to evaluate whether the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

a first time window is a time range of a maximum available uplink resource of the terminal in a case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

a first time window is a time range of a maximum available output power configured for the terminal in the case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

37. The terminal according to claim 35, wherein the transceiver is further configured to:

prior to sending the second indication information to the network device, send, to the network device, second power class information of the terminal at the first working frequency band where the network device works;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information.

38. The terminal according to claim 35 or 37, wherein the processor is further configured to:

in a case that an uplink symbol percentage scheduled or transmitted by the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, apply all requirements for the first power class to the supported power class;

or,

the processor is further configured to:

in a case that an uplink symbol percentage scheduled or transmitted by the terminal in the first time window is greater than a capability of the terminal corresponding to the second indication information, lower a lower limit of a maximum transmitting power configuration value of the terminal.

39. A network device, comprising a processor and a transceiver, wherein the processor is configured to control the transceiver to:

receive second indication information sent by a terminal,

wherein the second indication information comprises at least one of:

available uplink and downlink configuration information of the terminal, in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s);

in a case of ensuring compliance with applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s), at least one of the available uplink and downlink configuration information of the terminal, a maximum uplink duration capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal, a maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal, the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal, the maximum percentage of uplink slot capable of being scheduled or

transmitted of the terminal, the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal and the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in a first time window.

40. The network device according to claim 39, wherein a first time window is a predefined evaluation period;

the first time window is a time range for the terminal to evaluate whether the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available uplink resource of the terminal in a case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met; or

the first time window is a time range of a maximum available output power configured for the terminal in the case that the terminal evaluates that the applicable electromagnetic energy absorption requirement(s) or the electromagnetic radiation specific absorption ratio requirement(s) is met.

41. The network device according to claim 39, wherein the transceiver is further configured to:

prior to receiving the second indication information sent by the terminal, receive second power class information of the terminal at the first working frequency band where the network device works which is sent by the terminal;

wherein a transmitting power corresponding to the second power class information is larger than a transmitting power corresponding to first power class information.

42. The network device according to claim 39, wherein the processor is further configured to:

perform an uplink resource scheduling or an uplink transmission for the terminal;

a duration of scheduled or transmitted resource is less than or equal to the maximum uplink duration capable of being scheduled or transmitted of the terminal in

the first time window; or

a quantity of slots of scheduled or transmitted resource is less than or equal to the maximum quantity of uplink slot(s) capable of being scheduled or transmitted of the terminal in the first time window;; or

a quantity of uplink sub-frames of scheduled or transmitted resource is less than or equal to the maximum quantity of uplink sub-frame(s) capable of being scheduled or transmitted of the terminal in the first time window; or

a quantity of uplink symbols of scheduled or transmitted resource is less than or equal to the maximum quantity of uplink symbol(s) capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink duration percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink duration capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink slot percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink slot capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink sub-frame percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink sub-frame capable of being scheduled or transmitted of the terminal in the first time window; or

an uplink symbol percentage of scheduled or transmitted resource is less than or equal to the maximum percentage of uplink symbol capable of being scheduled or transmitted of the terminal in the first time window;

or,

the processor is further configured to:

send a power adjustment value to the terminal; wherein

in a case that the power adjustment value is applied to the terminal, a transmitting power of the terminal is less than or equal to a maximum available output power configured for the terminal; or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to a transmitting power value

corresponding to a first power class of the terminal at a first working frequency band;
or

in the case that the power adjustment value is applied to the terminal, the transmitting power of the terminal is less than or equal to the maximum available output power configured for the terminal in a case that the current uplink and downlink configuration of the network device is applied.

43. A computer-readable storage medium, wherein a computer program is stored in the computer-readable storage medium, a processor executes the program to perform the information transmission method applied to the network device according to any one of claims 1 to 6 or claims 20 to 24; or

the processor executes the program to perform the information transmission method applied to the terminal according to any one of claims 7 to 14 or claims 15 to 19.